

**BEFORE THE HON'BLE CENTRAL ELECTRICITY  
REGULATORY COMMISSION, AT NEW DELHI**

**PETITION NO. \_\_/TL/2024**

**IN THE MATTER OF:**

Application under Section 14, 15, 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other Related Matters) Regulation, 2024 and any other amendments thereon issued from time to time by this Hon'ble Commission, if any, for grant of Transmission License to Eastern Region Expansion Scheme – XXXIX Power Transmission Limited.

**IN THE MATTER OF:**

ERES-XXXIX Power Transmission Limited ...Petitioner

**VERSUS**

Central Transmission Utility of India Limited & Ors. ...Respondents

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**THROUGH:**



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Contact No. 011-46552925

**Place: New Delhi**

**Date: 21.11.2024**



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Central Transmission Utility of India Limited & Ors.                      ...Respondents

**MEMO OF PARTIES**

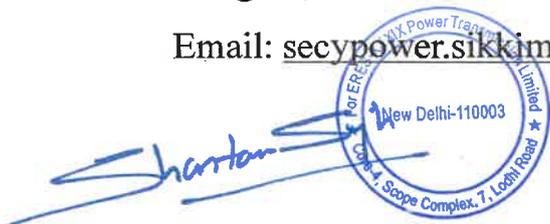
ERES-XXXIX Power Transmission Limited  
Through Authorized Representative  
104-B, First Floor, 191/A,  
Kharavela Nagar, Unit- 3,  
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**VERSUS**

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Through Authorized Representative  
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2. REC Power Development and Consultancy Limited  
Through Authorized Representative  
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Lodhi Road, New Delhi 110003  
Email: [tcb@recpdcl.in](mailto:tcb@recpdcl.in) ...Respondents No. 2
3. Bihar State Power Transmission  
Company Ltd. (BSPTCL)  
Through the Managing Director  
Vidyut Bhavan, 4<sup>th</sup> Floor, Bailey Road  
Patna-800021  
Email: [mdcell@bsptcl.bihar.gov](mailto:mdcell@bsptcl.bihar.gov) ...Respondents No. 3
4. Jharkhand Urja Sancharan Nigam Ltd. (JUSNL)  
Through the Managing Director  
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Ranchi -834004  
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5. Odisha Power Transmission Corporation Ltd. (OPTCL)  
Through the Chief Managing Director  
Bhoingar Post Office, Janpath  
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Email: [cr@optcl.co.in](mailto:cr@optcl.co.in) ...Respondents No. 5
6. West Bengal State Electricity Transmission  
Company Ltd. (WBSETCL)  
Through the Chief Managing Director  
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Email: [cmd@wbsetcl.in](mailto:cmd@wbsetcl.in) ...Respondents No. 6
7. Power Department  
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Through the Principal Chief Engineer cum Secretary  
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Email: [secypower.sikkim@gmail.com](mailto:secypower.sikkim@gmail.com) ...Respondents No. 7



8. Damodar Valley Corporation  
Through the Chairman  
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...Respondents No. 8

**THROUGH:**



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**MOST RESPECTFULLY SHOWETH:**

1. The Petitioner/ Applicant, ERES-XXXIX Power Transmission Limited (“**Petitioner**”/ “**Applicant**”) is a wholly owned subsidiary of Tata Power Company Limited (“**TPCL**”) and was incorporated by as a Special Purchase Vehicle (“**SPV**”) for implementation of the Inter-State Transmission System (“**ISTS**”) for “*Eastern Region Expansion Scheme – XXXIX*” (“**Transmission Project**”). The Petitioner was acquired by TPCL on 14.11.2024 after being declared as a successful bidder (i.e., L1) in the process conducted by REC Power Development and Consultancy Limited for selection of a



Transmission Service Provide (“TSP”) under Section 63 of the Electricity Act, 2003 (“Act”) for establishment of the Project.

2. Respondent No. 1 i.e., Central Transmission Utility of India Limited (“CTUIL”) is notified to undertake the functions of Central Transmission Utility as provided under Section 38 of the Act and discharging, *inter-alia*, functions of planning and co-ordination pertaining to ISTS with all the concerned authorities.
3. Respondent No. 2 i.e., REC Power Development and Consultancy Limited (“Respondent No. 2 / REC”) is a wholly owned subsidiary of the REC Limited, and is a company incorporated under the Companies Act, 1956. REC has been appointed as a bid process coordinator (“BPC”), by the Ministry of Power (“MoP”) *vide* notification dated 28.02.2024 being no. 943 [F. No. 15/3/2018-Trans-Part (1)] (published on 01.03.2024), for the purpose of selection of Bidder as Transmission Service Provider (“TSP”) for establishment of Inter-State Transmission System (“ISTS”) for construction of the Transmission Project through tariff based competitive bidding process (“TBCB”).
4. The Respondent Nos. 3 to 8 are the beneficiaries of the Petitioner.
5. That the present Application is being filed by Petitioner/Applicant under Section 14, 15, 79(1)(e) of the Act read with the relevant provisions of the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for grant of Transmission License and other related matters) Regulations, 2024 (“Transmission License Regulations 2024”) and any other amendment thereon issued from



time to time by this Hon'ble Commission subsequent Clarifications and Replacement, if any, for grant of Inter-state Transmission License to the Petitioner for establishment of the “Eastern Region Expansion Scheme – XXXIX” on build, own, operate and transfer basis.

6. The need for implementation of the Transmission Project was discussed in the 16<sup>th</sup> Meeting of the National Commission on Transmission (“NCT”) which was held on 30.11.2023. In the said meeting, the Central Transmission Utility of India Limited (“Respondent No. 1 / CTU”) had submitted the requirement for construction of the Transmission Project. The said submission was also in consideration of the request made by the Government of Odisha for establishing ISTS sub-station in Gopalpur in order to cater to the requirement of upcoming Green Hydrogen and Green Ammonia plants/industries in Gopalpur, Odisha.
7. Pursuant to the above, REC being the BPC, issued the Request for Proposal dated 16.03.2024 (“RfP”) and a Global invitation for selection of a TSP for the establishment of the Transmission Project on a build, own, operate and transfer (“BOOT”) basis. In terms of Clause 1.2 read with Clause 1.6 of the RfP and read with its subsequent amendments, the detailed scope of work under the Transmission Project is as follows:

S.No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha	



*Shantanu Singh*

<ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICTs: 2 nos. (7x500MVA single phase units including one spare)</li> <li>• 765 kV ICT bays: 2 nos.</li> <li>• 400 kV ICT bays: 2 nos.</li> <li>• 765 kV, 330 MVAr Bus reactor: 2 nos. (7x110 MVAr single phase units including one spare unit for both bus and line reactors)</li> <li>• 765 kV Bus reactor bays: 2 nos.</li> <li>• 420 kV, 125 MVAr Bus reactor: 2 nos.</li> <li>• 400 kV Bus reactor bays: 2 nos.</li> <li>• 765 kV line bays: 2 nos.</li> </ul> <p><i>[for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAr switchable line reactor at Gopalpur end in both circuits]</i></p> <ul style="list-style-type: none"> <li>• 400 kV line bays: 2 nos.</li> </ul> <p><i>[for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</i></p> <ul style="list-style-type: none"> <li>• 765 kV, 330 MVAr (3x110 MVAr single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) <i>[at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765 kV D/c line]:</i> 2 nos.</li> </ul>	<p>31-12-2027</p>
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*Shantanu Singh*

	<p><b>Additional space for future expansion:</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV, 4x1500 MVA ICTs (12x500MVA single phase units) along with associated ICT bays at both voltage levels</li> <li>• 400/220 kV, 4x500 MVA ICTs along with associated ICT bays at both voltage levels</li> <li>• 765 kV, 2x330 MVAr (6x110 MVAr single phase units) bus reactor along with associated bays</li> <li>• 420 kV, 2x125 MVAr bus reactor along with associated bays</li> <li>• 8 nos. of 765 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 10 nos. of 400 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 12 nos. of 220 kV line bays for future lines</li> <li>• 765 kV bus sectionaliser bay: 1 set</li> <li>• 400 kV bus sectionaliser bay: 1 set</li> <li>• 220 kV bus sectionaliser bay :1 set</li> <li>• 220 kV bus coupler bay: 2 no.</li> </ul>	
2.	Angul – Gopalpur 765 kV D/c line	
3.	Extension at 765 kV level at	



	<p>Angul (POWERGRID) S/s including bus extension in GIS</p> <ul style="list-style-type: none"> <li>765 kV AIS line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line] including bus extension in GIS of about 3000 m</li> </ul>	
4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line@	
5.	<p>Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line] + #2 nos. for diameter completion</li> </ul>	

Note:

- @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by March 2024. As per OPTCL's input 20km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- #The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e., 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS Bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/200 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur



*Shantanu Singh*

- (ISTS) – Gopalpur (OPTCL) 400 kV D/C (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.*
- d) *POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765 kV D/c line.*

8. It is submitted that the Petitioner/ Applicant was incorporated on 27.03.2024 by REC as its wholly owned subsidiary with the objective to initiate activities for implementation of the Transmission Project and thereafter for the Petitioner/ Applicant to act as the TSP upon being acquired by the successful bidder selected through TBCB process. In this regard, copy of the Certificate of Incorporation of the Petitioner dated 27.03.2024 is attached hereto and marked as ‘**Annexure P-1**’. Further, a copy of the Memorandum of Association (“**MoA**”) and Articles of Association (“**AoA**”) of the Petitioner is attached hereto and marked as ‘**Annexure P-2 (Colly.)**’.
9. Thereafter, it is pertinent to note that TPCL, the current holding company of the Petitioner, participated in the competitive bidding process conducted by REC and subsequently, on 15.10.2024, TPCL was declared as the successful bidder by REC, in pursuance to the e-reverse auction (held on 04.10.2024), with the lowest levelized transmission Charges of Rs. 2897.29 million per annum, in accordance with the TBCB process conducted in terms of the RfP and the TBCB Guidelines issued by the MoP under Section 63 of the Act. Accordingly, a Letter of Intent dated 15.10.2024 (“**LoI**”) was issued by REC to TPCL.



10. It is relevant to note that in accordance with Clause 2.15.4 of the RfP the TSP is mandated to apply to this Hon'ble Commission for grant of Transmission License, within five (5) working days of acquisition of the SPV (i.e., the Petitioner, previously a wholly owned subsidiary of REC before its acquisition) by TPCL.
11. It is pertinent to note that as per the Regulation 4 of the Transmission Licensee Regulations, 2024, a person selected through the process under the TBCB Guidelines is eligible for grant of License. The word '*person*' has been defined in Section 2(49) of the Act to include any company or body corporate or association or body of individuals, whether incorporated or not, or artificial juridical person. Therefore, the Petitioner is eligible to prefer the present Petition.
12. Further, it is submitted that in terms of Section 15(1) of the Act, every Application under Section 14 shall be made in such a manner and in such form as may be specified by the Appropriate Commission and shall be accompanied with such fees as may be prescribed. The relevant extract of Section 14 and Section 15 of the Act is reproduced below:

*“14. Grant of license- The Appropriate Commission may, on an application made to it under section 15, grant a license to any person -*

- (a) to transmit electricity as a transmission licensee; or*
- (b) to distribute electricity as a distribution licensee; or*
- (c) to undertake trading in electricity as an electricity trader, in any area which may be specified in the licence:*

...

*15. Procedure for grant of licence.-(1) Every application under section 14 shall be made in such form and in such*



*Shantanu Singh*

*manner as may be specified by the Appropriate Commission and shall be accompanied by such fee as may be prescribed.”*

13. In this respect, Regulation 5 of the Transmission License Regulations, 2024 provides the procedure for grant of License. Pursuant to the same, the Petitioner is filing the present Application in accordance with the procedure established under Regulation 5 of the Transmission License Regulations, 2024 and the relevant provisions of the Act.
14. In view thereof, the present Petition is being preferred by the Petitioner seeking grant of the transmission license in accordance with Section 14, 15 and 79(1)(e) of the Act read with Regulation 5 of the Transmission License Regulations, 2024.

### **FACTUAL BACKGROUND**

15. On 30.11.2023, the 16<sup>th</sup> meeting of the National Committee on Transmission (“NCT”) was held. In the said meeting, the representative of the Government of Odisha had requested for the establishment of ISTS sub-station in Gopalpur in order to meet the electricity requirement of upcoming Green Hydrogen and Green Ammonia plant/industries in Gopalpur, Odisha with cumulative demand of about 3 GW by FY 2025-26. Further, in consideration of the said request, the representative of CTUIL also recommended the requirement of the implementation of the ISTS for supply renewable energy (“RE”) power from outside Odisha to the abovementioned industries, to meet their renewable purchase obligations (RPO). After deliberations, the implementation of the Transmission Project was recommended to be through TBCB mode. A copy of the relevant



extracts of the Minutes of Meeting held on 30.11.2023 is attached hereto and marked as '**Annexure P-3**'.

16. On 01.03.2024, the MoP published its notification being No. 943 [F. No. 15/3/2018-Trans-Part (1)] dated 28.02.2024, by way of which the MoP notified REC as the BPC for the purpose of selection of Bidder as TSP to establish an ISTS for construction of the Transmission Project in accordance with the Guidelines dated 10.08.2024, issued by MoP under Section 63 of the Act (Refer Sr. No. 2 of the Gazette Notification). A copy of the Gazette Notification published on 01.03.2024, is attached hereto and marked as '**Annexure P-4**'.
17. On 05.03.2024, the 18<sup>th</sup> meeting of the NCT was held, wherein the certain modifications related to the scope of work of the Transmission Project was approved by the NCT. A copy of the relevant extracts of the Minutes of 18<sup>th</sup> Meeting of the NCT held on 05.03.2024 is attached hereto and marked as '**Annexure P-5**'.
18. On 16.03.2024, the RfP was issued by REC for selection of Bidder as a TSP through TBCB process in order to establish Inter-State Transmission System and for construction of the Transmission Project, in relation to the same. Further, in terms of the said RfP, the successful bidder was required to acquire one hundred percent (100%) of the equity shares of the Petitioner for construction of the Transmission Project. A copy of the RfP dated 16.03.2024, and a copy of the Global invitation issued by REC are attached hereto and marked as '**Annexure P-6 (Colly.)**'.

In addition to the above, on 16.03.2024, REC had published the copy of the Global invitation for selection of Bidder as a TSP through



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TBCB process for the implementation of the Transmission Project in national newspapers and in regional newspapers with the publication being made in both English and in regional languages. Copies of the relevant newspaper publications is attached hereto and marked as '**Annexure P-7 (Colly.)**'.

20. On 18.03.2024, the REC issued letters to this Hon'ble Commission and MoP, about the bid documents having been uploaded on the website of REC. The copies of the letters dated 18.03.2024 issued by REC to this Hon'ble Commission and the MoP are attached hereto and marked as '**Annexure P-8 (Colly.)**'.
21. On 22.03.2024, REC issued the Amendment – I to the RfP in terms of which certain provisions of the Draft Transmission Service Agreement were amended and aligned with provisions under the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024. A copy of the Amendment – I to the RfP issued by REC on 22.03.2024 is attached hereto and marked as '**Annexure P-9**'.
22. On 27.03.2024, the Petitioner was incorporated under the provisions of the Companies Act, 2013 by REC as its 100% wholly owned subsidiary to initiate the activities for undertaking pre-bid obligations in relation to the execution of the Transmission Project and subsequently to act as the TSP.
23. In accordance with the requirements of the RfP and the Global Invitation, on 05.04.2024, TPCL paid an amount of Rs. 5,90,000.00 (Rupees Five Lakh Ninety Thousand only) (inclusive of 18% GST) to



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REC, as mandated to be paid under the RFP for the issuance of the RfP and other relevant documents including Survey Reports etc.

24. Subsequently, on 08.04.2024, the REC issued its letter to TPCL, enclosing therein, (a) Copy of the RFP; (b) Draft Transmission Service Agreement; (c) Draft Share Purchase Agreement; and (d) Survey Reports alongwith Route Alignment Drawings which was issued in accordance with Clause 1.6.2.1 (1) of the RfP. A copy of the letter dated 08.04.2024 issued by REC to TPCL along with the Survey Report and the Amended Survey Report dated 14.06.2024 is attached herewith and marked as '**Annexure P-10 (Colly.)**'.
25. On 08.04.2024, REC issued Notices for Pre-bid meeting through video conferencing as per RFP documents for the bidders interested in participating in the aforesaid bid process. A copy of Notice *vide* e-mail dated 08.04.2024 issued by REC is annexed hereto and marked as '**Annexure P-11**'.
26. On 12.04.2024, REC issued a letter to the District Magistrate and Collector, Ganjam (Odisha) requesting for allocation of (approximately) 55 Acres of land for construction of the 765/ 400 kV, 2 x 1500 MVA GIS Substation at Gopalpur, Odisha at Village-Sriramapur, Tehsil – Chhatrapur, District- Ganjam, Odisha. A copy of the letter dated 12.04.2024 issued by REC is attached hereto an marked as '**Annexure P-12**'.
27. On 18.04.2024, REC issued an invoice to TPCL acknowledging the payment made by TPCL for the issuance of the RfP and other relevant documents including Survey Reports etc. A copy of the invoice issued



by REC to TPCL on 18.04.2024 is attached hereto and marked as '**Annexure P-13**'.

28. On 30.04.2024, the REC issued the Amendment – II to the RfP, wherein, it was provided that all the references to the SPV were to be read as "*ERES-XXXIX POWER TRANSMISSION LIMITED*". A copy of the Amendment – II of the RfP issued by the REC on 30.04.2024 is attached hereto and marked as '**Annexure P-14**'.
29. On 02.05.2024, the REC issued Clarifications to the RFP providing for various clarification in relation to the provisions under the RfP and the Draft Transmission Service Agreement. A copy of the Clarification dated 02.05.2024 to the RfP issued by the REC is attached herewith and marked as '**Annexure P-15**'.
30. On 02.05.2024, the Petitioner had issued a letter to the CEA requesting for approval from CEA for laying of overhead transmission lines under Section 68 of the Act. A copy of the letter dated 02.05.2024 issued by the Petitioner to the CEA is attached hereto and marked as '**Annexure P-16**'.
31. In response to the letter dated 02.05.2024 issued by the Petitioner, the MoP *vide* letter dated 17.05.2024 granted the approval to the Petitioner under Section 68 of the Act, for laying of overhead transmission lines. A copy of the letter dated 17.05.2024 granting approval under Section 68 of the Act is attached hereto and marked as '**Annexure P-17**'.
32. Meanwhile on 03.05.2024, REC issued a letter to TPCL stating that as per the requirement of Clause 1.5 of the RfP, the tentative



acquisition price payable by the selected bidder to BPC for acquisition of one hundred percent (100%) of the equity shareholding of the Petitioner is Rs 1827.55 Lakhs (Rupees Eighteen Crore Twenty-Seven Lakhs Fifty- Five Thousand Only). A copy of the letter dated 03.05.2024 issued by the REC to TPCL is attached hereto and marked as '**Annexure P-18**'.

33. Meanwhile, on 10.05.2024 the CEA had issued a letter to the REC about the constitution of the bid evaluation committee. In respect of the same, CEA had also issued an email to REC. The copies of the letter dated 10.05.2024 and the email dated 05.09.2024 are attached hereto and marked as '**Annexure P-19 (Colly.)**'.
34. It is pertinent to note that REC issued various amendments to the RfP on, 18.05.2024, 29.05.2024, 12.06.2024, 03.07.2024, 18.07.2024, 27.07.2024, 07.08.2024, 22.08.2024, 04.09.2024, 09.09.2024 and 19.09.2024, for extension of the timeline for the submission of bid for the Transmission Project. As per the final amendment to the RfP dated 19.09.2024 (XIII Amendment), the due date for the online submission of bid for the Transmission Project was 24.09.2024. Also, in terms of the said XIII amendment to the RfP, Technical bids were supposed to be opened on the same date i.e., 24.09.2024, similarly, the financial bids – Initial Offer were supposed to be opened on 07.10.2024. The copies of the amendments of the RfP issued by REC on 18.05.2024, 29.05.2024, 12.06.2024, 03.07.2024, 18.07.2024, 27.07.2024, 07.08.2024, 22.08.2024, 04.09.2024, 09.09.2024 and 19.09.2024 are attached hereto and marked as '**Annexure 20 (Colly.)**'.

On 14.06.2024, 22.07.2024, 16.08.2024 and 04.09.2024, the REC issued subsequent Additional Clarifications to the RfP providing for



further clarifications in relation to the provisions under the RfP and the Draft Transmission Service Agreement. Copies of the Additional Clarifications to the RfP issued by the REC on 14.06.2024, 22.07.2024, 16.08.2024 and 04.09.2024 are attached herewith and marked as ‘**Annexure P-21 (Colly.)**’.

36. On 25.06.2024 and 06.08.2024, the 20<sup>th</sup> and the 21<sup>st</sup> meetings of the NCT were held respectively, wherein the change in implementation time-frame of the Transmission Project was deliberated upon by the NCT. Copies of the relevant extracts of the Minutes of 20<sup>th</sup> and 21<sup>st</sup> Meeting of the NCT respectively held on 25.06.2024 and on 06.08.2024, are attached hereto and marked as ‘**Annexure P-22 (Colly.)**’.
37. On 01.10.2024, REC issued a letter to TPCL informing that TPCL was declared as a ‘Qualified Bidder’ in accordance with Clause 3.2 and 3.4 of the RfP. A copy of the letter dated 01.10.2024 issued by REC to TPCL and the list of qualified bidders is attached herewith and marked as ‘**Annexure P-23**’.
38. Thereafter, REC *vide* its letter dated 03.10.2024 invited TPCL to participate in the e-Reverse Auction (“e-RA”) which was to be conducted on 04.10.2024. A copy of the letter dated 03.10.2024 issued by REC inviting TPCL for e-Reverse Auction is attached hereto and marked as ‘**Annexure P-24**’.
39. On 07.10.2024, REC issued its letter to TPCL thereby requesting TPCL to submit original hard copies of the documents as required under Clause 2.5.2 of the RfP latest by 09.10.2024. The relevant extract of Clause 2.5.2 of the RfP is reproduced as under:



*Shantanu Singh*

*“In addition to the on line submission of above formats through the electronic platform, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2”*

A copy of the letter dated 07.10.2024 issued by REC to TPCL is attached hereto and marked as ‘**Annexure P-25**’.

40. In response to the aforesaid letter, on 07.10.2024, TPCL issued its letter to REC wherein TPCL informed that relevant documents applicable in case of TPCL would be submitted by TPCL as per the applicable timeline. A copy of the letter dated 07.10.2024 issued by TPCL to REC is attached hereto and marked as ‘**Annexure P-26**’.
41. Subsequently, the Bid Evaluation Committee (“BEC”) held its meeting for evaluation of the bids placed by the bidders wherein TPCL was declared as the L1 bidder at the quoted Transmission tariff of Rs. 2897.29 million per annum. Accordingly, a Certificate was issued by BEC on 08.10.2024 in terms of TBCB Guidelines. A copy of the BEC Certificate dated 08.10.2024 is attached hereto and marked as ‘**Annexure P-27**’.
42. Thereafter, on 15.10.2024, REC issued the LoI to TPCL in accordance with which TPCL was required to unconditionally accept the terms of the LoI within seven (7) days of its issuance. Accordingly, TPCL vide its letter dated 21.10.2024 to REC, issued its unconditional



*Shantanu Singh*

acceptance of the LoI. A copy of the LoI dated 15.10.2024, issued by REC to TPCL alongwith all its enclosures is attached hereto and marked as '**Annexure P-28 (Colly.)**'. A copy of the letter dated 21.10.2024 issued by TPCL to REC is attached hereto and marked as '**Annexure P-29**'.

43. It is pertinent to note that Clause 2.15.2 of the RfP specifies a timeline of 10 days from the issuance of the LoI, for the selected bidder to (a) furnish a Contract Performance Guarantee ("**CPG**") in favour of the nodal agency i.e., CTUIL; (b) execute the transmission service agreement ("**TSA**"); and (c) acquire the SPV. Moreover, in terms of Clause 2.15.4 of the RfP, within 5 working days of the acquisition of the SPV by the selected bidder, the TSP is mandated to file Petitions seeking adoption of transmission charges and for grant of transmission license before this Hon'ble Commission.
44. On 04.11.2024, the Ministry of Power issued a letter to REC, granting its approval for the sale and transfer of the Petitioner to the successful bidder selected through competitive bidding process i.e., TPCL. A copy of the Letter dated 04.11.2024 issued by the Ministry of Power is attached hereto and marked as '**Annexure P-30**'.
45. In furtherance to the above, TPCL completed the Due Diligence on 23.10.2024. Thereafter, on 07.11.2024, REC communicated the details of acquisition price of the SPV as Rs. 18,56,22,381/- (Rupees Eighteen Crores Fifty-Six Lakhs Twenty-Two Thousand Three Hundred and Eighty-One only) and by way of email dated 06.11.2024 also informed of the date of execution of the SPA as 14.11.2024. A copy of the letter dated 07.11.2024 issued by REC to TPCL regarding



*Shantanu Singh*

the details of the acquisition price of the SPV and the date of execution of the SPA is attached hereto and marked as '**Annexure P-31**'.

46. In accordance with Clause 2.15.2 of the RFP, TPCL proceeded as follows:
- a. On 07.11.2024 TPCL issued the CPG on behalf of TPCL, amounting to Rs. 58,00,00,000/- (Rupees Fifty-Eight Crores only) was issued in favour of the nodal agency i.e., CTUIL, as provided for under Clause 2.12.1 of the RfP. A copy of the CPG issued on behalf of TPCL to CTUIL is attached hereto and marked as '**Annexure P-32**'; and
  - b. On 14.11.2024, TPCL executed the SPA i.e., a tripartite agreement with REC and the Petitioner upon having made the payment of the acquisition price of Rs. 18,56,22,381/- (Rupees Eighteen Crores Fifty-Six Lakhs Twenty-Two Thousand Three Hundred and Eighty-One only) on 13.11.2024 for the acquisition of 100% equity shares of the Petitioner. A copy of the executed SPA dated 14.11.2024 and the proof of payment of the acquisition price by TPCL is attached hereto and marked as '**Annexure P-33**' and '**Annexure P-34**' respectively.
47. On 14.11.2024, the Petitioner also entered into a TSA with CTU for the implementation of the Transmission Project. A copy of the TSA entered into between the Petitioner and CTUIL on 14.11.2024 is attached hereto and marked as '**Annexure P-35**'.

Lastly on 14.11.2024, REC issued a letter to TPCL in relation to the handing over of the original documents to TPCL. Further, REC also



issued a letter to TPCL on 14.11.2024, extending the timeline for the completion of the activities mentioned under Clauses 2.15.2, 2.15.3 and 2.15.4 of RfP till 22.11.2024. Thus, in terms of the Clause 2.15.4 of the RfP read with Letter dated 14.11.2024 (extension of timeline), the present petition is being filed within 5 working days of the acquisition of the SPV by TPCL. Copies of the Letters dated 14.11.2024 issued by the REC to TPCL regarding handing over of the documents and the extension of timeline are attached hereto and marked as 'Annexure P-36 (colly.)'.

## SUBMISSIONS

49. The Petitioner respectfully submits that the Petitioner, in accordance with the provisions of Clause 2.15.4 of the RfP, has preferred this Petition seeking grant of transmission license in respect of the Transmission Project, before this Hon'ble Commission under Section 14 read with Section 15(1) of the Act. Further, the present petition is being filed within 5 working days from the acquisition of the SPV by TPCL.
50. Further, as per Regulation 5(1) of the Transmission License Regulations, 2024 the licensee approaching the Commission for grant of license has to append Form – I along with relevant documents provided therein along with such fee as prescribed by the Central Government in terms of Section 15(1) of the Act. In compliance of the same, the Petitioner has attached the Form – I as prescribed under Regulation 5(1) of the Transmission License Regulations, 2024 as 'Annexure P - 37'.



*Antan Singh*

51. Further, in accordance with Regulations 5(3) of the Transmission License Regulations, 2024 read with Section 15(3) of the Act, Petitioner has marked Nodal Agency i.e., CTUIL as a Respondent on the e-portal of this Hon'ble Commission. In terms of the said provisions, the Petitioner is also sending a copy of present Application to CTUIL *via* e-mail and a hard copy is also being forwarded to the CTUIL for its recommendation under Section 15 (4) of the Act and Regulation 5(9) of Transmission License Regulations, 2024.
52. In addition to the above, the present Application has also been marked to the BPC for the submission of requisite documents by/ information by BPC before this Hon'ble Commission in respect of the bidding process undertaken and thereby ensure the processing of the Application.
53. Further, it is undertaken that the Petitioner would upload the present application along with Form-I on the Petitioner's website in compliance with Regulation 5 (4) of Transmission License Regulations, 2024. Further, the Petitioner also undertakes that notice of the Application as per Form-II of Transmission License Regulations, 2024 shall be uploaded on the e-filing portal of the Commission and also on the Applicant's website in compliance with Regulation 5 (4) of Transmission License Regulations, 2024.
54. Further, in compliance with Regulation 5(5) Transmission License Regulations, 2024, the notice of the Application as per Form-II under the said Regulations shall be published in two leading daily digital newspaper, one in English and another in Odia i.e., the official



language of the State of Odisha, where the Transmission Project is situated, for inviting comments from general public. The said notice shall also be kept posted on the website of the Applicant.

55. It is submitted that the Applicant further undertakes that in accordance with Regulation 5(8) of Transmission License Regulations, 2024, the Applicant shall submit to this Hon'ble Commission, in affidavit, the details of the notice published, names of the digital newspapers in which the notice has been published, the dates and places of their publication and enclosing the relevant pages of the publication of the notice.
56. It is further submitted that the Transmission Project is governed by the TSA signed between the Applicant and CTUIL and all the terms of which shall be binding on the signatories to the TSA. Further, the Applicant would implement the Transmission Project as per the terms and conditions provided in the TSA and the time over run and cost overrun, if applicable, shall be claimed by the Applicant in accordance with the applicable provisions of the TSA read with the provisions of the Act, the bidding documents, the regulations of this Hon'ble Commission and the exercise of power by this Hon'ble Commission under the Act and the Regulations.
57. In furtherance to the submissions made hereinabove, it is respectfully submitted that the Applicant fulfils the eligibility criteria for grant of transmission license as stipulated in the Transmission License Regulations, 2024 and therefore, this Hon'ble Commission may grant the prayer as prayed for.



*Antoni Singh*

58. Simultaneously, with the present Petition, the Petitioner/ Applicant is also filing a Petition for adoption of the transmission charges with respect to the Transmission Project under Section 63 of the Act before this Hon'ble Commission separately, *inter alia*, in accordance with the provisions of Article 2.15.4 of the RFP.
59. The present Petition is filed *bona fide* and in the interest of justice.

### PRAYER

60. The Petitioner hereby humbly prays the Hon'ble Commission to:
- (a) Issue the Transmission License to the Applicant for establishing, operating and maintaining the “*Eastern Region Expansion Scheme – XXXIX*” as provided in the Transmission Service Agreement and the Request for Proposal;
  - (b) Allow the sharing and recovery of Transmission charges for Inter-State Transmission System for the “*Eastern Region Expansion Scheme – XXXIX*” as per the CERC (Sharing of Inter-State Transmission and Losses) Regulations, 2020 and any other amendment thereon issued from time to time by this Hon'ble Commission;
  - (c) Condone any inadvertent errors/ omissions/ shortcomings and permit the Applicant to add/change/modify/alter these filings and make further submissions as may be required at a future date; and
  - (d) Pass any such other order/orders, as may be deemed fit and proper in the facts and circumstances of the case.



*Shantanu Singh*

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**Authorized Signatory**  
**ERES-XXXIX Power Transmission Limited**  
**Petitioner**

**Through**

A handwritten signature in blue ink that reads "Anshu Nair", which is underlined.

**Sagus Legal**  
Counsel for the Petitioner  
**ERES-XXXIX Power Transmission Limited**  
B-7/8, Ground Floor, Safdarjung Enclave,  
New Delhi-110029  
Phone No. 011-46552925  
Email: [service@saguslegal.com](mailto:service@saguslegal.com)

Date: 21-11-2024  
Place: New Delhi

BEFORE THE HON'BLE CENTRAL ELECTRICITY  
REGULATORY COMMISSION, NEW DELHI

27

PETITION NO. /TL/2024

IN THE MATTER OF:

ERES-XXXIX Power Transmission Limited  
...Petitioner/Applicant

Versus

Central Transmission Utility of India Limited & Anr.  
...Respondents

AFFIDAVIT

I, Shantanu Singh S/o Dharendra Singh, aged about 33 years, R/o 2508, Verona Towers, Mahagun Moderne, Sector 78, Noida, Uttar Pradesh, presently at New Delhi, do hereby solemnly affirm and state as under:

1. That I am the Authorised Signatory of the Petitioner. I am fully conversant with the facts and circumstances of the case, and I have been duly authorized and am, therefore, competent to affirm this affidavit.
2. That the present Petition has been drafted on my instructions and I affirm that the facts stated therein are true to my best of my knowledge based on the official records of the Petitioner which I believe to be true and correct. The contents of all paragraphs of the present Petition and parts thereof are true to the my knowledge derived from the records of the Company.




3. That the annexures filed along with the accompanying Petition are true copies of their respective originals.

  
*Shantanu Singh*  
DEPONENT

**VERIFICATION**

I, Shantanu Singh the abovenamed deponent, do hereby verify that the contents of this affidavit are true and correct to my knowledge, no part of it is false and nothing material has been concealed therefrom.

  
*Shantanu Singh*  
DEPONENT

Verified by me on 21 day of November, 2024 at New Delhi.

21 NOV 2024



*Beheria*

I identified the deponent who has signed in my presence.

CERTIFIED THAT THE DEPONENT  
Sri/Smt/Km..... *Shantanu Singh*  
S/o, W/o, D/o..... *Dhruvendra Singh*  
R/o..... *Rajiv Anand, Adw*  
Identified by Sri/Smt.....  
has Solemnly advised before me  
New Delhi on..... as SI. No. *1946*  
That the contents of the affidavit which have  
been read & explained to him are true and  
Correct to this knowledge.

21 NOV 2024

*[Signature]*  
Notary Public

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# Annexure P-1

**GOVERNMENT OF INDIA  
MINISTRY OF CORPORATE AFFAIRS**

Central Registration Centre

**Certificate of Incorporation**

[Pursuant to sub-section (2) of section 7 and sub-section (1) of section 8 of the Companies Act, 2013 (18 of 2013) and rule 18 of the Companies (Incorporation) Rules, 2014]

I hereby certify that ERES-XXXIX POWER TRANSMISSION LIMITED is incorporated on this TWENTY SEVENTH day of MARCH TWO THOUSAND TWENTY FOUR under the Companies Act, 2013 (18 of 2013) and that the company is Company limited by shares

The Corporate Identity Number of the company is **U42202DL2024GOI428871**

The Permanent Account Number (PAN) of the company is **AAICE0994J\***

The Tax Deduction and Collection Account Number (TAN) of the company is **DELE18503C\***

Given under my hand at Manesar this TWENTY SEVENTH day of MARCH TWO THOUSAND TWENTY FOUR

Certification signature by DS MINISTRY OF CORPORATE  
AFFAIRS , CRC MANESAR 1 <DOC-CRC@MCA.GOV.IN>,  
Validity Unknown

Digitally signed by  
DS MINISTRY OF CORPORATE  
AFFAIRS , CRC MANESAR 1  
Date: 2024.03.27 16:12:36 IST

afsar Ali

Assistant Registrar of Companies/ Deputy Registrar of Companies/ Registrar of Companies

For and on behalf of the Jurisdictional Registrar of Companies

Registrar of Companies

Central Registration Centre

Disclaimer: This certificate only evidences incorporation of the company on the basis of documents and declarations of the applicant(s). This certificate is neither a license nor permission to conduct business or solicit deposits or funds from public. Permission of sector regulator is necessary wherever required. Registration status and other details of the company can be verified on [mca.gov.in](http://mca.gov.in)

Mailing Address as per record available in Registrar of Companies office:

ERES-XXXIX POWER TRANSMISSION LIMITED

CORE-4, SCOPE COMPLEX, 7, LODHI ROAD, Lodi Road, New Delhi, South Delhi- 110003, Delhi

\*as issued by Income tax Department



Form No. INC-33

# Annexure P-2 (Colly)



Form language

English  Hindi

## e-MOA (e-Memorandum of Association)

[Pursuant to Schedule I (see Sections 4 and 5) to the Companies Act, 2013]

Refer instruction kit for filing the form

All fields marked in \* are mandatory

### \* Table applicable to company as notified under schedule I of the Companies Act, 2013

(A - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY SHARES  
B - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND NOT HAVING A SHARE CAPITAL  
C - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY GUARANTEE AND HAVING A SHARE CAPITAL  
D - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND NOT HAVING SHARE CAPITAL  
E - MEMORANDUM OF ASSOCIATION OF AN UNLIMITED COMPANY AND HAVING SHARE CAPITAL)

A - MEMORANDUM OF ASSOCIATION OF A COMPANY LIMITED BY SHARES

### Table A/B/C/D/E

1 The name of the company is

ERES-XXXIX POWER  
TRANSMISSION LIMITED

2 The registered office of the company will be situated in the State of

Delhi

3 (a) The objects to be pursued by the company on its incorporation are:

1. To plan, promote and develop an integrated and efficient power transmission system network in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports, construction, operation and maintenance of transmission lines, sub-stations, load dispatch stations and communication facilities and appurtenant works, coordination of integrated operation of regional and national grid system, execution of turn-key jobs for other utilities/organizations and wheeling of power in accordance with the policies, guidelines and objectives laid down by the Central Government from time to time.  
2. To study, investigate, collect information and data, review operation, plan, research, design and prepare Report, diagnose operational difficulties and weaknesses and advise on the remedial measures to improve,

undertake development of new and innovative product connected with business of the Company as well as modernize existing EHV, HV lines and Sub-Stations.

3.To act as consultants, technical advisors, surveyors and providers of technical and other services to Public or Private Sector enterprises engaged in the planning, investigation, research, design and preparations of preliminary, feasibility and definite project reports, manufacture of power plant and equipment, construction, generation, operation and maintenance of power transmission system from power generating stations and projects, transmission and distribution of power.

4.To plan, promote, develop, erect and maintain, operate and otherwise deal in Telecommunication networks and services in all its aspects including planning, investigation, research, design and engineering, preparation of preliminary, feasibility and definite project reports: to purchase, sell, import, export, assemble, manufacture, install, commission, maintain, operate commercially whether on own or along with other, on lease or otherwise. These networks and for such purposes to set up and/ or install all requisite communications facilities and other facilities including fiber optic links, digital microwave links, communication cables, another telecommunication means, telephone and other exchanges, co-axial stations, microwave stations, repeater stations, security system databases, billing systems, subscriber management systems and other communication systems whether consisting of sound, visual impulse, or otherwise, existing or that may be developed or invented in the future and to manufacture, purchase, sell, import, export, assemble, take or

give on lease/rental/subscription basis or by similar means or otherwise deal in all components and other support and ancillary hardware and software systems, accessories, parts and equipment?s etc. used in or in connection with the operation of the above communication systems and networks including to deal with telecommunication operations or directly with the general public, commercial companies or otherwise.

(b) \*Matters which are necessary for furtherance of the objects specified in clause 3(a) are

- 1.To obtain license, approvals and authorization from Governmental Statutory and Regulatory Authorities, as may be necessary to carry out and achieve the Objects of the Company and connected matters which may seem expedient to develop the business interests of the Company in India and abroad.
- 2.To enter into any arrangement with the Government of India or with any State Government or with other authorities/commissions, local bodies or public sector or private sector undertakings, Power Utilities, Financial Institutions, Banks, International Funding Agencies and obtain such charters, subsidies, loans, advances or other money, grants, contracts, rights, sanctions, privileges, licenses or concessions whatsoever (whether statutory or otherwise) which the Company may think it desirable to obtain for carrying its activities in furthering the interests of the Company or its members.
- 3.To enter into any agreement, contract or any arrangement for the implementation of the power generation, evacuation, transmission and distribution system and network with Power/ Transmission Utilities, State Electricity Boards, Vidhyut Boards, Transmission Companies, Generation Companies,

Licensees, Statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc.

4.To secure the payments of money, receivables on transmission and distribution of electricity and sale of fuel, as the case may be, to the State Electricity Boards, Vidyut Boards, Transmission Utilities, Generating Companies, Transmission Companies, Distribution Companies, State Governments, Licensees, statutory bodies, other organizations (whether in Private, Public or Joint Sector Undertaking) and bulk consumers of power etc. through Letter of Credits/ESCROW and other security documents.

5.To coordinate with the Central Transmission Utility of electricity generated by it under the relevant provisions of Electricity Act 2003 and any amendments thereto.

6.Subject to provisions of Sections 73, 74, 179, 180 & 186 and other applicable provisions of the Companies Act, 2013 and rules made thereunder and subject to other laws or directives, if any, of SEBI/RBI, to borrow money in Indian rupees or foreign currencies and obtain foreign lines of credits/ grants/ aids etc. or to receive money or deposits from public for the purpose of the Company's business in such manner and on such terms and with such rights, privileges and obligations as the Company may think fit. The Company may issue bonds/ debentures whether secured or unsecured; bills of exchange, promissory notes or other securities, mortgage or charge on all or any of the immovable and movable properties, present or future and all or any of the uncalled capital for the time being of the Company as the Company may deem fit and To repay, redeem or pay off any such securities or charges.

7.To lend money on property or on mortgage of immovable

properties or against Bank guarantee and to make advances of money against future supply of goods and services on such terms as the Directors may consider necessary and to invest money of the Company in such manner as the Directors may think fit and to sell, transfer or to deal with the same.

8.To own, possess, acquire by purchase, lease or otherwise rights, title and interests in and to, exchange or hire real estate, equipment, Transmission lines, lands, buildings, apartments, plants, equipment, machinery, fuel blocks and hereditaments of any tenure or descriptions situated in India or abroad or any estate or interest therein and any right over or connected with land so situated and turn the same to account in any manner as may seem necessary or convenient for the purpose of business of the Company and to hold, improve, exploit, reorganize, manage, lease, sell, exchange or otherwise dispose of the whole or any part thereof.

9.Subject to applicable provisions of Companies Act, 2013, to subscribe for, underwrite, or otherwise acquire, hold, dispose of and deal with the shares, stocks, debentures or other securities and titles of indebtedness or the right to participate in profits or other similar documents issued by any Government authority, Corporation or body or by any company or body of persons and any option or right in respect thereof.

10.To create any depreciation fund, reserve fund, sinking fund, insurance fund, gratuity, provident fund or any other fund, for depreciation or for repairing, improving extending or maintaining any of the properties of the Company or for any other purposes whatsoever conducive to the interests of the Company.

11.To acquire shares, stocks, debentures or securities of any

company carrying on any business which this Company is entitled to carry on or acquisition of undertaking itself which may seem likely or calculated to promote or advance the interests of the Company and to sell or dispose of or transfer any such shares, stocks or securities and the acquired undertaking.

12.To enter into partnership or into any agreement for joint working, sharing or pooling profits, joint venture, amalgamation, union of interests, co-operation, reciprocal concessions or otherwise or amalgamate with any person or company carrying on or engaged in or about to carry on or engaged in any business or transaction in India or abroad which the Company is authorized to carry on or engage in any business undertaking having objects identical or similar to, as are being carried on by this Company.

13.To establish and maintain agencies, branch offices and local agencies, to procure business in any part of India and world and to take such steps as may be necessary to give the Company such rights and privileges in any part of the world as deemed proper in the interest of the Company.

14.To promote and undertake the formation of any institution or Company or subsidiary company or for any aforesaid objects intended to benefit the Company directly or indirectly and to coordinate, control and guide their activities.

15(a).To negotiate and enter into agreements and contracts with domestic and foreign companies, persons or other organizations, banks and financial institutions, in relation to the business of the Company including that of technical know-how, import, export, purchase or sale of plant, machinery, equipment, tools, accessories and consumables, financial assistance and for carrying out all or any of the

objects of the Company.

15(b). To negotiate and enter into agreements and contracts for execution of turnkey jobs, works, supplies and export of plant, machinery, tools and accessories etc.

16. Upon and for the purpose of any issue of shares, debentures or any other securities of the Company, to enter into agreement with intermediaries including brokers, managers of issue/commission agents and underwriters and to provide for the remuneration of such persons for their services by way of payment in cash or issue of shares, debentures or other securities of the Company or by granting options to take the same or in any other manner as permissible under the law.

17. To enter into contracts of indemnity and get guarantee and allocations for the business of the Company.

18. To make arrangements for training of all categories of employees and to employ or otherwise engage experts, advisors, consultants etc. in the interest of achieving the Company's objects.

19. To promote conservation and protection of electricity from theft, safety of life and to protect environments including air, land and water etc.

20. To pay and provide for the remuneration, amelioration and welfare of persons employed or formerly employed by the Company and their families providing for pension, allowances, bonuses, other payments or by creating for the purpose from time to time the Provident Fund, Gratuity and other Funds or Trusts. Further to undertake building or contributing to the building or houses, dwellings or chawls by grants of money, or by helping persons employed by the Company to effect or maintain insurance on their lives by contributing to the payment of premium or otherwise and by

providing or subscribing or contributing towards educational institutions, recreation, hospitals and dispensaries, medical and other assistance as the Company may deem fit.

21.To ensure any rights, properties, undertakings, contracts, guarantees or obligations or profits of the Company of every nature and kind in any manner with any person, firm, association, institution or company.

22.To distribute among members of the Company dividend including bonus shares out of profits, accumulated profits or funds and resources of the Company in any manner permissible under law.

23.To institute, conduct, defend, compound or abandon any legal proceedings by or against the Company or its officers or otherwise concerning the affairs of the Company and also to compound and to allow time for payment or satisfaction of any debts or recovery due, claims or demands by or against the Company and to refer any claims or demands by or against the Company or any differences arising in execution of contracts to conciliation and arbitration and to observe, comply with and/or challenge any awards preliminary, interim or final made in any such arbitration.

24.To pay out of the funds of the Company all costs, charges, expenses and preliminary and incidental to the promotion, formation, establishment and registration of the Company or other expenses incurred in this regard.

25.Subject to provisions of Sections 181, 182 & 183 of Companies Act, 2013 to contribute money or otherwise assist to charitable, benevolent, religious, scientific national, defense, public or other institutions or objects or purposes.

26.To open an account or

accounts with any individual, firm or company or with any bank bankers or shroofs and to pay into and withdraw money from such account or accounts.

27.To accept gifts, bequests, devises and donations from members and others and to make gifts to members and others of money, assets and properties of any kind.

28.To carry out all or any of the objects of the company and do all or any of the above things in any part of the world and either as principal, agent, contractor or trustee or otherwise and either alone or in conjunction with others.

29.To negotiate and/or enter into agreement and contract with individuals, companies, corporations, foreign or Indian, for obtaining or providing technical, financial or any other assistance for carrying on all or any of the objects of the Company and also for the purpose of activating, research, development of projects on the basis of know-how and/or financial participation and for technical collaboration, and to acquire or provide necessary formulate and patent rights for furthering the objects of the company.

30.To aid peculiarly or otherwise, any association, body or movement having for its object the solution, settlement or surmounting of industrial or labour problems or trouble or the promotion of industry or trade.

31.Subject to the provisions of Companies Act, 2013 or any amendment or re-enactment thereof in the event of winding up to distribute among the members in specie any property of the Company or any proceeds of sale on disposal of any property in accordance with the provisions of the Act.

32.To do all such other things as may be deemed incidental or conducive to the attainment of the above Objects or any of them and to carry on any business

which may seem to the Company capable of being conveniently carried in connection with any of the Company's Objects or calculated directly or indirectly to enhance the value of or render profitable any of the Company's property or rights.

33.To establish, provide, maintain and conduct or otherwise subsidies research laboratories and experimental workshops for scientific, technical or researches, experiments and to undertake and carry on directly or in collaboration with other agencies scientific and technical research experiments and tests of all kinds and to process, improve and invent new products and their techniques of manufacture and to promote, encourage, reward in every manner studies and research, scientific and technical investigations and inventions of any kind that may be considered likely to assist, encourage and promote rapid advances in technology, economies, import substitution or any business which the Company is authorized to carry on.

34.Subject to provisions of the Companies Act, 2013, to evolve scheme for restructuring or arrangement, to amalgamate or merge or to enter into partnership or into any consortium or arrangement for sharing of profits, union of interests, co-operation, joint venture with any Person or Persons, partnership firm/firms, or company or companies carrying on or engaged in any operation capable of being conducted so conveniently in cooperation with the business of the Company or to benefit the Company or to the activities for which the Company has been established.

35.To apply for purchase, or otherwise acquire any trade marks, patents, brevets, inventions, licenses, concessions and the like, conferring any

exclusive or nonexclusive or limited rights to use, or any secret or other information as to any invention which may be capable of being used for any of the purposes of the Company, or the acquisition of which may benefit the Company and to use, exercise, develop or grant licenses in respect of or otherwise turn to account the property, rights or information so acquired.

36. To sell, dispose or hive off an undertaking of the Company or any part thereof for such consideration as the Company may think fit and in particular for shares, debentures or securities of any other association, corporation or company.

37. To sell, improve, manage, develop, exchange, loan, lease or let, under-lease, sub - let, mortgage, dispose of, deal with in any manner, turn to account or otherwise deal with any rights or property of the Company.

4 The liability of the member(s) is limited, and this liability is limited to the amount unpaid if any, on the shares held by them.

5 Every member of the company undertakes to contribute:

(i) to the assets of the company in the event of its being wound up while he is a member, or within one year after he ceases to be a member, for payment of the debts and liabilities of the company or of such debts and liabilities as may have been contracted before he ceases to be a member; and

(ii) to the costs, charges and expenses of winding up (and for the adjustment of the rights of the contributories among

themselves), such amount as may be required, not exceeding \*  rupees.

(iii) The share capital of the company is  rupees, divided into

50000	Equity Share	Shares of	10	Rupees each	
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- We, the several persons, whose names and address are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association, and we respectively agree to take the number of shares in the capital of the company set against our respective names:
- I, whose name and address is given below, am desirous of forming a company in pursuance of this memorandum of association and agree to take all the shares in the capital of the company:
- We, the several persons, whose names and addresses are subscribed, are desirous of being formed into a company in pursuance of this memorandum of association:

Subscriber Details					
S. No.	*Name, Address, Description and Occupation	DIN / PAN / Passport number	No. of shares taken	DSC	Dated
1	REC POWER DEVELOPMENT AND CONSULTANCY LIMITED, CORE-4, SCOPE COMPLEX, 7, LODHI ROAD, NEW DELHI-110003, THROUGH ITS CEO RAJESH KUMAR S/O SHRINIWAS GUPTA R/O L-187, NAG MANDIR KE PAS SHASTRI NAGAR, ASHOK VIHAR, DELHI 110052, OCCUPATION-SERVICE	0*9*1*2*	49994 Equity,0 Preferenc		20/03/2024
2	MOHAN LAL KUMAWAT S/O SHRI RAMU RAM KUMAWAT NOMINEE OF RE C POWER DEVELOPMENT AND CONSULTANCY LIMITED FLAT NO 142 TOWER -1 GC EMERALD, RAMPRASTHA GREENS VAISHALI SECTOR-7, GHAZIABAD-201010, UTTAR PRADESH, OCCUPATION-SERVICE	0*6*2*9*	1 Equity,0 Preference		20/03/2024
3	PUTHIYARKATTU SHIVARAMAN HARIHARAN S/O SHRI PUTHIYARAKAT VELAYUDHAN SIVARAMAN NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED FLAT NO.104, SADAR APARTMENT, MAYUR VIHAR EXTENTION, PHASE-1, PLOT NO.9, NEW DELHI-110091, OCCUPATION-SERVICE	0*6*7*5*	1 Equity,0 Preference		20/03/2024
4	THANGARAJAN SUBASH CHANDIRA BOSH S/O SHRI SITHAN THANGARAJAN NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITE D R/O APARTMENT NO S-2, MIDDLE PORTION 2-B, JANGPURA, MATHURA ROAD, NEW	0*7*2*1*	1 Equity,0 Preference		20/03/2024

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	DELHI-110014, OCCUPATION-SERVICE			
5	ARVIND KUMAR S/O NAND KISHOR SINGH NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O T4-8A, SAI VATIKA APARTMENT, SECTOR-63, FARIDABAD -121004, OCCUPATION-SERVICE	1*3*2*3*	1 Equity,0 Preference	20/03/2024
6	ALOK SINGH S/O JAGDHARI SINGH NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O MF-23, ELDECO MANSIONZ, SECTOR-48, SOHNA ROAD, GURUGRAM - 122018, OCCUPATION-SERVICE	0*4*8*8*	1 Equity,0 Preference	20/03/2024
7	MUKUL AGARWAL S/O SHRI RAJESH KUMAR NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O HOUSE NO. 767, SECOND FLOOR, ANSAL C-2 BLOCK, NEAR WATER TANK ANSAL PLAZA, SECTOR-3 PALAM VIHAR, GURGAON-122017, HARYANA OCCUPATION-SERVICE	1*3*2*8*	1 Equity,0 Preference	20/03/2024
<b>Total shares taken</b>			50000 Equity,0 Preference	

## Signed before me

Membership type of the witness (ACA/FCA/ACS/FCS/ACMA/FCMA)	*Name of the witness	*Address, Description and Occupation	DIN / PAN / Passport number / Membership number	DSC	Dated
FCA	VINAY KUMAR	A-805, NX BYTE T-3, NX ONE, TECH ZONE - IV, GREATER NOIDA WEST -201318	4*2*9*		20/03/2024

7 Shri / Smt

Of

resident of

aged

years shall be the nominee in the event of death of the sole member.

## Form No. INC-34

## e-AOA (e-Articles of Association)

[Pursuant to Section 5 of the Companies Act, 2013 and rules made thereunder read with Schedule I]



Form language

 English  Hindi

Refer instruction kit for filing the form.

All fields marked in \* are mandatory

Table applicable to company as notified under schedule I of the Companies Act, 2013  
(F, G, H)

F

Table F / G / H (basis on the selection of above-mentioned field) as notified under schedule I of the companies Act, 2013 is applicable to

F - A COMPANY LIMITED BY SHARES

(F – a company limited by shares

G– a company limited by guarantee and having a share capital

H – a company limited by guarantee and not having share capital)

The name of the company is

ERES-XXXIX POWER TRANSMISSION LIMITED

Check if not applicable	Check if altered	Article No.	Description
			<b>Interpretation</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	I	<ul style="list-style-type: none"> <li>(1) In these regulations- (a) the Act means the Companies Act 2013 (b) the seal means the common seal of the company. (2) Unless the context otherwise requires words or expressions contained in these regulations shall bear the same meaning as in the Act or any statutory modification thereof in force at the date at which these regulations become binding on the company. (3) Public company means a company which- (a) is not a private company (b) has a minimum paid-up share capital as maybe prescribed Provided that a company which is a subsidiary of a company not being a private company shall be deemed to be public company for the purposes of this Act even where such subsidiary company continues to be a private company in its articles.</li> </ul>
			<b>Share Capital and Variation of rights</b>
<input type="checkbox"/>	<input type="checkbox"/>	II 1	<ul style="list-style-type: none"> <li>Subject to the provisions of the Act and these Articles the shares in the capital of the company shall be under the control of the Directors who may issue allot or otherwise dispose of the same or any of them to such persons in such proportion and on such terms and conditions and either at a premium or at par and at such time as they may from time to time think fit.</li> </ul>
			<ul style="list-style-type: none"> <li>Every person whose name is entered as a member in the register</li> </ul>

<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p style="text-align: center; font-size: 2em; font-weight: bold;">44</p> <p style="text-align: center;">2</p>	<p>of members shall be entitled to receive within two months after incorporation in case of subscribers to the memorandum or after allotment or within one month after the application for the registration of transfer or transmission or within such other period as the conditions of issue shall be provided one certificate for all his shares without payment of any charges or several certificates each for one or more of his shares upon payment of twenty rupees for each certificate after the first. Every certificate shall be under the seal and shall specify the shares to which it relates and the amount paid - up thereon. In respect of any share or shares held jointly by several persons the company shall not be bound to issue more than one certificate and delivery of certificate for a share to one of several joint holders shall be sufficient delivery to all such holders.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">3</p>	<ul style="list-style-type: none"> <li>If any share certificate be worn out defaced mutilated or torn or if there be no further space on the back for endorsement of transfer then upon production and surrender thereof to the company a new certificate may be issued in lieu thereof and if any certificate is lost or destroyed then upon proof thereof to the satisfaction of the company and on execution of such indemnity as the company deem adequate a new certificate in lieu thereof shall be given. Every certificate under this Article shall be issued on payment of twenty rupees for each certificate. The provisions of Articles (2) and (3) shall mutatis mutandis apply to debentures of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">4</p>	<ul style="list-style-type: none"> <li>Except as required by law no person shall be recognised by the company as holding any share upon any trust and the company shall not be bound by or be compelled in any way to recognise (even when having notice thereof) any equitable contingent future or partial interest in any share or any interest in any fractional part of a share or (except only as by these regulations or by law otherwise provided) any other rights in respect of any share except an absolute right to the entirety thereof in the registered holder.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">5</p>	<ul style="list-style-type: none"> <li>The company may exercise the powers of paying commissions conferred by sub-section (6) of section 40 provided that the rate per cent or the amount of the commission paid or agreed to be paid shall be disclosed in the manner required by that section and rules made thereunder. The rate or amount of the commission shall not exceed the rate or amount prescribed in rules made under sub-section (6) of section 40. The commission may be satisfied by the payment of cash or the allotment of fully or partly paid shares or partly in the one way and partly in the other.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	<p style="text-align: center;">6</p>	<ul style="list-style-type: none"> <li>If at any time the share capital is divided into different classes of shares the rights attached to any class (unless otherwise provided by the terms of issue of the shares of that class) may subject to the provisions of section 48 and whether or not the company is being wound up be varied with the consent in writing of the holders of three-fourths of the issued shares of that class or with the sanction of a special resolution passed at a separate meeting of the holders of the shares of that class. To every such separate meeting the provisions of these regulations relating to general meetings shall mutatis mutandis apply but so that the necessary quorum shall be at least two persons holding at least one-third of the issued shares</li> </ul>

		<b>45</b>	of the class in question.
<input type="checkbox"/>	<input type="checkbox"/>	7	<ul style="list-style-type: none"> <li>The rights conferred upon the holders of the shares of any class issued with preferred or other rights shall not unless otherwise expressly provided by the terms of issue of the shares of that class be deemed to be varied by the creation or issue of further shares ranking pari passu therewith.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	8	<ul style="list-style-type: none"> <li>Subject to the provisions of section 55 any preference shares may with the sanction of an ordinary resolution be issued on the terms that they are to be redeemed on such terms and in such manner as the company before the issue of the shares may by special resolution determine.</li> </ul>
			<b>Lien</b>
<input type="checkbox"/>	<input type="checkbox"/>	9	<ul style="list-style-type: none"> <li>The company shall have a first and paramount lien on every share (not being a fully paid share) for all monies (whether presently payable or not) called or payable at a fixed time in respect of that share and on all shares (not being fully paid shares) standing registered in the name of a single person for all monies presently payable by him or his estate to the company Provided that the Board of directors may at any time declare any share to be wholly or in part exempt from the provisions of this clause. The company's lien if any on a share shall extend to all dividends payable and bonuses declared from time to time in respect of such shares.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	10	<ul style="list-style-type: none"> <li>The company may sell in such manner as the Board thinks fit any shares on which the company has a lien Provided that no sale shall be made unless a sum in respect of which the lien exists is presently payable or until the expiration of fourteen days after a notice in writing stating and demanding payment of such part of the amount in respect of which the lien exists as is presently payable has been given to the registered holder for the time being of the share or the person entitled thereto by reason of his death or insolvency.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	11	<ul style="list-style-type: none"> <li>To give effect to any such sale the Board may authorise some person to transfer the shares sold to the purchaser thereof The purchaser shall be registered as the holder of the shares comprised in any such transfer. The purchaser shall not be bound to see to the application of the purchase money nor shall his title to the shares be affected by any irregularity or invalidity in the proceedings in reference to the sale.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	12	<ul style="list-style-type: none"> <li>The proceeds of the sale shall be received by the company and applied in payment of such part of the amount in respect of which the lien exists as is presently payable. The residue if any shall subject to a like lien for sums not presently payable as existed upon the shares before the sale be paid to the person entitled to the shares at the date of the sale.</li> </ul>
			<b>Calls on shares</b>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>The Board may from time to time make calls upon the members in respect of any monies unpaid on their shares (whether on account</li> </ul>

		13	<p>of the nominal value of the shares or by way of premium) and not by the conditions of allotment thereof made payable at fixed times Provided that no call shall exceed one-fourth of the nominal value of the share or be payable at less than one month from the date fixed for the payment of the last preceding call. Each member shall subject to receiving at least fourteen days notice specifying the time or times and place of payment pay to the company at the time or times and place so specified the amount called on his shares. A call may be revoked or postponed at the discretion of the Board.</p>
<input type="checkbox"/>	<input type="checkbox"/>	14	<ul style="list-style-type: none"> <li>A call shall be deemed to have been made at the time when the resolution of the Board authorizing the call was passed and may be required to be paid by instalments.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	15	<ul style="list-style-type: none"> <li>The joint holders of a share shall be jointly and severally liable to pay all calls in respect thereof.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	16	<ul style="list-style-type: none"> <li>If a sum called in respect of a share is not paid before or on the day appointed for payment thereof the person from whom the sum is due shall pay interest thereon from the day appointed for payment thereof to the time of actual payment at ten per cent per annum or at such lower rate if any as the Board may determine. The Board shall be at liberty to waive payment of any such interest wholly or in part.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	17	<ul style="list-style-type: none"> <li>Any sum which by the terms of issue of a share becomes payable on allotment or at any fixed date whether on account of the nominal value of the share or by way of premium shall for the purposes of these regulations be deemed to be a call duly made and payable on the date on which by the terms of issue such sum becomes payable. In case of non-payment of such sum all the relevant provisions of these regulations as to payment of interest and expenses forfeiture or otherwise shall apply as if such sum had become payable by virtue of a call duly made and notified.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	18	<ul style="list-style-type: none"> <li>The Board - a. may if it thinks fit receive from any member willing to advance the same all or any part of the monies uncalled and unpaid upon any shares held by him and b. upon all or any of the monies so advanced may (until the same would but for such advance become presently payable) pay interest at such rate not exceeding unless the company in general meeting shall otherwise direct twelve per cent per annum as may be agreed upon between the Board and the member paying the sum in advance.</li> </ul>
			<b>Transfer of shares</b>
<input type="checkbox"/>	<input type="checkbox"/>	19	<ul style="list-style-type: none"> <li>The instrument of transfer of any share in the company shall be executed by or on behalf of both the transferor and transferee. The transferor shall be deemed to remain a holder of the share until the name of the transferee is entered in the register of members in respect thereof.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	20	<ul style="list-style-type: none"> <li>The Board may subject to the right of appeal conferred by section 58 decline to register the transfer of a share not being a fully paid share to a person of whom they do not approve or any transfer of</li> </ul>

		<b>47</b>	shares on which the company has a lien.
<input type="checkbox"/>	<input type="checkbox"/>	21	<ul style="list-style-type: none"> <li>The Board may decline to recognise any instrument of transfer unless the instrument of transfer is in the form as prescribed in rules made under sub-section (1) of section 56b. the instrument of transfer is accompanied by the certificate of the shares to which it relates and such other evidence as the Board may reasonably require to show the right of the transferor to make the transfer andc. the instrument of transfer is in respect of only one class of shares.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	22	<ul style="list-style-type: none"> <li>On giving not less than seven days previous notice in accordance with section 91 and rules made thereunder the registration of transfers may be suspended at such times and for such periods as the Board may from time to time determineProvided that such registration shall not be suspended for more than thirty days at any one time or for more than forty-five days in the aggregate in any year.</li> </ul>
			<b>Transmission of shares</b>
<input type="checkbox"/>	<input type="checkbox"/>	23	<ul style="list-style-type: none"> <li>On the death of a member the survivor or survivors where the member was a joint holder and his nominee or nominees or legal representatives where he was a sole holder shall be the only persons recognised by the company as having any title to his interest in the shares Nothing in clause (i) shall release the estate of a deceased joint holder from any liability in respect of any share which had been jointly held by him with other persons.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	24	<ul style="list-style-type: none"> <li>Any person becoming entitled to a share in consequence of the death or insolvency of a member may upon such evidence being produced as may from time to time properly be required by the Board and subject as hereinafter provided elect either to be registered himself as holder of the share or to make such transfer of the share as the deceased or insolvent member could have made. The Board shall in either case have the same right to decline or suspend registration as it would have had if the deceased or insolvent member had transferred the share before his death or insolvency.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	25	<ul style="list-style-type: none"> <li>If the person so becoming entitled shall elect to be registered as holder of the share himself he shall deliver or send to the company a notice in writing signed by him stating that he so elects. If the person aforesaid shall elect to transfer the share he shall testify his election by executing a transfer of the share. All the limitations restrictions and provisions of these regulations relating to the right to transfer and the registration of transfers of shares shall be applicable to any such notice or transfer as aforesaid as if the death or insolvency of the member had not occurred and the notice or transfer were a transfer signed by that member.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>A person becoming entitled to a share by reason of the death or insolvency of the holder shall be entitled to the same dividends and other advantages to which he would be entitled if he were the registered holder of the share except that he shall not before being registered as a member in respect of the share be entitled in</li> </ul>

	26		respect of it to exercise any right conferred by membership in relation to meetings of the company Provided that the Board may at any time give notice requiring any such person to elect either to be registered himself or to transfer the share and if the notice is not complied with within ninety days the Board may thereafter withhold payment of all dividends bonuses or other monies payable in respect of the share until the requirements of the notice have been complied with.	
<input checked="" type="checkbox"/>		<input type="checkbox"/>	27	<ul style="list-style-type: none"> <li>In case of a One Person Company on the death of the sole member the person nominated by such member shall be the person recognised by the company as having title to all the shares of the member the nominee on becoming entitled to such shares in case of the members death shall be informed of such event by the Board of the company such nominee shall be entitled to the same dividends and other rights and liabilities to which such sole member of the company was entitled or liable on becoming member such nominee shall nominate any other person with the prior written consent of such person who shall in the event of the death of the member become the member of the company.</li> </ul>
			<b><i>Forfeiture of shares</i></b>	
<input type="checkbox"/>		<input type="checkbox"/>	28	<ul style="list-style-type: none"> <li>If a member fails to pay any call or instalment of a call on the day appointed for payment thereof the Board may at any time thereafter during such time as any part of the call or instalment remains unpaid serve a notice on him requiring payment of so much of the call or instalment as is unpaid together with any interest which may have accrued.</li> </ul>
<input type="checkbox"/>		<input type="checkbox"/>	29	<ul style="list-style-type: none"> <li>The notice aforesaid shall name a further day (not being earlier than the expiry of fourteen days from the date of service of the notice) on or before which the payment required by the notice is to be made and state that in the event of non-payment on or before the day so named the shares in respect of which the call was made shall be liable to be forfeited.</li> </ul>
<input type="checkbox"/>		<input type="checkbox"/>	30	<ul style="list-style-type: none"> <li>If the requirements of any such notice as aforesaid are not complied with any share in respect of which the notice has been given may at any time thereafter before the payment required by the notice has been made be forfeited by a resolution of the Board to that effect.</li> </ul>
<input type="checkbox"/>		<input type="checkbox"/>	31	<ul style="list-style-type: none"> <li>A forfeited share may be sold or otherwise disposed of on such terms and in such manner as the Board thinks fit. At any time before a sale or disposal as aforesaid the Board may cancel the forfeiture on such terms as it thinks fit.</li> </ul>
<input type="checkbox"/>		<input type="checkbox"/>	32	<ul style="list-style-type: none"> <li>A person whose shares have been forfeited shall cease to be a member in respect of the forfeited shares but shall notwithstanding the forfeiture remain liable to pay to the company all monies which at the date of forfeiture were presently payable by him to the company in respect of the shares. The liability of such person shall cease if and when the company shall have received payment in full of all such monies in respect of the shares.</li> </ul>
				<ul style="list-style-type: none"> <li>A duly verified declaration in writing that the declarant is a director</li> </ul>

<input type="checkbox"/>	<input type="checkbox"/>	33	<p><b>49</b> the manager or the secretary of the company and that a share in the company has been duly forfeited on a date stated in the declaration shall be conclusive evidence of the facts therein stated as against all persons claiming to be entitled to the share The company may receive the consideration if any given for the share on any sale or disposal thereof and may execute a transfer of the share in favour of the person to whom the share is sold or disposed of The transferee shall thereupon be registered as the holder of the share and The transferee shall not be bound to see to the application of the purchase money if any nor shall his title to the share be affected by any irregularity or invalidity in the proceedings in reference to the forfeiture sale or disposal of the share.</p>
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	34	<ul style="list-style-type: none"> <li>The provisions of these regulations as to forfeiture shall apply in the case of non-payment of any sum which by the terms of issue of a share becomes payable at a fixed time whether on account of the nominal value of the share or by way of premium as if the same had been payable by virtue of a call duly made and notified.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		
			<b><i>Alteration of capital</i></b>
<input type="checkbox"/>	<input type="checkbox"/>	35	<ul style="list-style-type: none"> <li>The company may from time to time by ordinary resolution increase the share capital by such sum to be divided into shares of such amount as may be specified in the resolution.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	36	<ul style="list-style-type: none"> <li>Subject to the provisions of section 61 the company may by ordinary resolution consolidate and divide all or any of its share capital into shares of larger amount than its existing shares convert all or any of its fully paid-up shares into stock and reconvert that stock into fully paid-up shares of any denomination sub-divide its existing shares or any of them into shares of smaller amount than is fixed by the memorandum cancel any shares which at the date of the passing of the resolution have not been taken or agreed to be taken by any person.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		
<input type="checkbox"/>	<input type="checkbox"/>	37	<ul style="list-style-type: none"> <li>Where shares are converted into stock the holders of stock may transfer the same or any part thereof in the same manner as and subject to the same regulations under which the shares from which the stock arose might before the conversion have been transferred or as near thereto as circumstances admit Provided that the Board may from time to time fix the minimum amount of stock transferable so however that such minimum shall not exceed the nominal amount of the shares from which the stock arose. the holders of stock shall according to the amount of stock held by them have the same rights privileges and advantages as regards dividends voting at meetings of the company and other matters as if they held the shares from which the stock arose but no such privilege or advantage (except participation in the dividends and profits of the company and in the assets on winding up) shall be conferred by an amount of stock which would not if existing in shares have conferred that privilege or advantage. such of the regulations of the company as are applicable to paid-up shares shall apply to stock and the words share and shareholder in those regulations shall include stock and stock-holder respectively.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		

<input type="checkbox"/>	<input type="checkbox"/>	38	<b>50</b>	<ul style="list-style-type: none"> <li>The company may by special resolution reduce in any manner and with and subject to any incident authorised and consent required by law its share capital any capital redemption reserve account or any share premium account.</li> </ul>
				<b>Capitalisation of profits</b>
<input type="checkbox"/>	<input type="checkbox"/>	39		<ul style="list-style-type: none"> <li>The company in general meeting may upon the recommendation of the Board resolve that it is desirable to capitalise any part of the amount for the time being standing to the credit of any of the company's reserve accounts or to the credit of the profit and loss account otherwise available for distribution and that such sum be accordingly set free for distribution in the manner specified in clause (ii) amongst the members who would have been entitled thereto if distributed by way of dividend and in the same proportions. The sum aforesaid shall not be paid in cash but shall be applied subject to the provision contained in clause (iii) either in or towards paying up any amounts for the time being unpaid on any shares held by such members respectively paying up in full unissued shares of the company to be allotted and distributed credited as fully paid-up to and amongst such members in the proportions aforesaid partly in the way specified in sub-clause (A) and partly in that specified in sub-clause (B) A securities premium account and a capital redemption reserve account may for the purposes of this regulation be applied in the paying up of unissued shares to be issued to members of the company as fully paid bonus shares The Board shall give effect to the resolution passed by the company in pursuance of this regulation.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>			<ul style="list-style-type: none"> <li>Whenever such a resolution as aforesaid shall have been passed the Board shall make all appropriations and applications of the undivided profits resolved to be capitalised thereby and all allotments and issues of fully paid shares if any and generally do all acts and things required to give effect thereto. The Board shall have power to make such provisions by the issue of fractional certificates or by payment in cash or otherwise as it thinks fit for the case of shares becoming distributable in fractions and to authorise any person to enter on behalf of all the members entitled thereto into an agreement with the company providing for the allotment to them respectively credited as fully paid-up of any further shares to which they may be entitled upon such capitalisation or as the case may require for the payment by the company on their behalf by the application thereto of their respective proportions of profits resolved to be capitalised of the amount or any part of the amounts remaining unpaid on their existing shares Any agreement made under such authority shall be effective and binding on such members</li> </ul>
				<b>Buy-back of shares</b>
<input type="checkbox"/>	<input type="checkbox"/>	41		<ul style="list-style-type: none"> <li>Notwithstanding anything contained in these articles but subject to the provisions of sections 68 to 70 and any other applicable provision of the Act or any other law for the time being in force the company may purchase its own shares or other specified securities.</li> </ul>

## 51 *General meetings*

<input type="checkbox"/>	<input type="checkbox"/>	42	<ul style="list-style-type: none"><li>All general meetings other than annual general meeting shall be called extraordinary general meeting.</li></ul>
<input type="checkbox"/>	<input type="checkbox"/>	43	<ul style="list-style-type: none"><li>The Board may whenever it thinks fit call an extraordinary general meeting. If at any time directors capable of acting who are sufficient in number to form a quorum are not within India any director or any two members of the company may call an extraordinary general meeting in the same manner as nearly as possible as that in which such a meeting may be called by the Board.</li></ul>
			<b><i>Proceedings at general meetings</i></b>
<input type="checkbox"/>	<input type="checkbox"/>	44	<ul style="list-style-type: none"><li>No business shall be transacted at any general meeting unless a quorum of members is present at the time when the meeting proceeds to business. Save as otherwise provided herein the quorum for the general meetings shall be as provided in section 103.</li></ul>
<input type="checkbox"/>	<input type="checkbox"/>	45	<ul style="list-style-type: none"><li>The chairperson if any of the Board shall preside as Chairperson at every general meeting of the company.</li></ul>
<input type="checkbox"/>	<input type="checkbox"/>	46	<ul style="list-style-type: none"><li>If there is no such Chairperson or if he is not present within fifteen minutes after the time appointed for holding the meeting or is unwilling to act as chairperson of the meeting the directors present shall elect one of their members to be Chairperson of the meeting.</li></ul>
<input type="checkbox"/>	<input type="checkbox"/>	47	<ul style="list-style-type: none"><li>If at any meeting no director is willing to act as Chairperson or if no director is present within fifteen minutes after the time appointed for holding the meeting the members present shall choose one of their members to be Chairperson of the meeting.</li></ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	48	<ul style="list-style-type: none"><li>In case of a One Person Company the resolution required to be passed at the general meetings of the company shall be deemed to have been passed if the resolution is agreed upon by the sole member and communicated to the company and entered in the minutes book maintained under section 118 such minutes book shall be signed and dated by the member the resolution shall become effective from the date of signing such minutes by the sole member.</li></ul>
			<b><i>Adjournment of meeting</i></b>
<input type="checkbox"/>	<input type="checkbox"/>	49	<ul style="list-style-type: none"><li>The Chairperson may with the consent of any meeting at which a quorum is present and shall if so directed by the meeting adjourn the meeting from time to time and from place to place. No business shall be transacted at any adjourned meeting other than the business left unfinished at the meeting from which the adjournment took place. When a meeting is adjourned for thirty days or more notice of the adjourned meeting shall be given as in the case of an original meeting. Save as aforesaid and as provided in section 103 of the Act it shall not be necessary to give any notice of an adjournment or of the business to be transacted at an</li></ul>

				<b>Voting rights</b>	
<input type="checkbox"/>	<input type="checkbox"/>	50		<ul style="list-style-type: none"> <li>Subject to any rights or restrictions for the time being attached to any class or classes of shares on a show of hands every member present in person shall have one vote and on a poll the voting rights of members shall be in proportion to his share in the paid-up equity share capital of the company.</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>	51		<ul style="list-style-type: none"> <li>A member may exercise his vote at a meeting by electronic means in accordance with section 108 and shall vote only once.</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>	52		<ul style="list-style-type: none"> <li>In the case of joint holders the vote of the senior who tenders a vote whether in person or by proxy shall be accepted to the exclusion of the votes of the other joint holders. For this purpose seniority shall be determined by the order in which the names stand in the register of members.</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>	53		<ul style="list-style-type: none"> <li>A member of unsound mind or in respect of whom an order has been made by any court having jurisdiction in lunacy may vote whether on a show of hands or on a poll by his committee or other legal guardian and any such committee or guardian may on a poll vote by proxy.</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>	54		<ul style="list-style-type: none"> <li>Any business other than that upon which a poll has been demanded maybe proceeded with pending the taking of the poll.</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>	55		<ul style="list-style-type: none"> <li>No member shall be entitled to vote at any general meeting unless all calls or other sums presently payable by him in respect of shares in the company have been paid</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>	56		<ul style="list-style-type: none"> <li>No objection shall be raised to the qualification of any voter except at the meeting or adjourned meeting at which the vote objected to is given or tendered and every vote not disallowed at such meeting shall be valid for all purposes. Any such objection made in due time shall be referred to the Chairperson of the meeting whose decision shall be final and conclusive.</li> </ul>	
				<b>Proxy</b>	
<input type="checkbox"/>	<input type="checkbox"/>	57		<ul style="list-style-type: none"> <li>The instrument appointing a proxy and the power-of-attorney or other authority if any under which it is signed or a notarised copy of that power or authority shall be deposited at the registered office of the company not less than 48 hours before the time for holding the meeting or adjourned meeting at which the person named in the instrument proposes to vote or in the case of a poll not less than 24 hours before the time appointed for the taking of the poll and in default the instrument of proxy shall not be treated as valid.</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>	58		<ul style="list-style-type: none"> <li>An instrument appointing a proxy shall be in the form as prescribed in the rules made under section 105</li> </ul>	
<input type="checkbox"/>	<input type="checkbox"/>			<ul style="list-style-type: none"> <li>A vote given in accordance with the terms of an instrument of proxy shall be valid notwithstanding the previous death or insanity</li> </ul>	

59	53	of the principal or the revocation of the proxy or of the authority under which the proxy was executed or the transfer of the shares in respect of which the proxy is given Provided that no intimation in writing of such death insanity revocation or transfer shall have been received by the company at its office before the commencement of the meeting or adjourned meeting at which the proxy is used.
		<b>Board of Directors</b>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	<p>60</p> <ul style="list-style-type: none"> <li>The day to day management of the business of the Company shall be vested with the Board of Directors of the Company or such persons as may be authorized by the Board from time to time. The Board may exercise all such powers of the Company and do all such acts, deeds and things as are not prohibited by the Act or any other law for the time being in force or by the Memorandum of Association of a Company and without prejudice to the foregoing shall be responsible for all policy matters and the supervision, direction and control of the conduct of the business affairs and operations of the Company. The first Directors of the Company shall be 1. KUNTALA VENU GOPAL 2. DEBASIS MITRA 3. AWANISH KUMAR BHARATI. At every annual general meeting one third of such of the directors for the time being as are liable to retire by rotation or if their number is neither three nor a multiple of three then the number nearest to one third shall retire from office. The directors to retire by rotation at every annual general meeting shall be those who have been longest in office since their last appointment but as between persons who became directors on the same day those who are to retire shall in default of and subject to any agreement among themselves be determined by lot at annual general meeting at which a director retires as aforesaid the company may fill up the vacancy by appointing the retiring director or some other person there to. The Board of Directors of the Company shall consist of not less than but not more than Directors. The appointment of Directors including the Chairman, Managing Director, Whole time Director, Part time Director shall be done in the General Meetings in accordance with the provisions of the Companies Act and Rules made there under and shall be eligible for appointment. However till the Company is a Government Company, REC Power Development and Consultancy Limited (RECPDCL) the holding company shall have the full powers to recommend/nominate the name of any Directors to be appointed on the Board of the Company. Further RECPDCL shall also have the power to remove any director from office at any time in its absolute discretion. RECPDCL shall also have the right to fill any vacancies in the office of director caused by removal, resignation, death or otherwise. Subject to provisions of the Act the Company may by passing the resolution in General Meeting increase/crease the maximum number of Directors and may alter their qualification. Further the Company may subject to the provisions of the Act remove any Director before the expiration of his period of office and appoint another person in place of him. The Board may appoint any person to act as alternate director for a Director during the later absence for a period of not less than three months from India and such appointment shall have effect and such appointee whilst he holds office as an alternate director shall be entitled to notice of meeting of the Board and to attend and vote there at accordingly but he shall not require any qualification and shall ipso facto vacate office if and when the absent Director returns to India.</li> </ul>

		<b>54</b>	Casual vacancies among Directors may be filled by the Board of Directors at their meeting and any person so appointed shall hold the office as per the provision of section of the Act Subject to the provisions of Section and other applicable provisions if any of the Act the Board shall have power at any time and from time to time to appoint a person as an Additional Director but so that the total number of Directors shall not at any time exceed the maximum number fixed by these Articles The Additional Director so appointed shall retire from Office at next annual General Meeting but shall be eligible for election by the company at that meeting as a Director
<input type="checkbox"/>	<input type="checkbox"/>	61	<ul style="list-style-type: none"> <li>The remuneration of the directors shall in so far as it consists of a monthly payment be deemed to accrue from day-to-day. In addition to the remuneration payable to them in pursuance of the Act the directors may be paid all travelling hotel and other expenses properly incurred by them in attending and returning from meetings of the Board of Directors or any committee thereof or general meetings of the company or in connection with the business of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	62	<ul style="list-style-type: none"> <li>The Board may pay all expenses incurred in getting up and registering the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	63	<ul style="list-style-type: none"> <li>The company may exercise the powers conferred on it by section 88 with regard to the keeping of a foreign register and the Board may (subject to the provisions of that section) make and vary such regulations as it may think fit respecting the keeping of any such register.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	64	<ul style="list-style-type: none"> <li>All cheques promissory notes drafts hundis bills of exchange and other negotiable instruments and all receipts for monies paid to the company shall be signed drawn accepted endorsed or otherwise executed as the case may be by such person and in such manner as the Board shall from time to time by resolution determine</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	65	<ul style="list-style-type: none"> <li>Every director present at any meeting of the Board or of a committee thereof shall sign his name in a book to be kept for that purpose.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	66	<ul style="list-style-type: none"> <li>Subject to the provisions of section 149 the Board shall have power at any time and from time to time to appoint a person as an additional director provided the number of the directors and additional directors together shall not at any time exceed the maximum strength fixed for the Board by the articles. Such person shall hold office only up to the date of the next annual general meeting of the company but shall be eligible for appointment by the company as a director at that meeting subject to the provisions of the Act.</li> </ul>
			<b><i>Proceedings of the Board</i></b>
<input type="checkbox"/>	<input type="checkbox"/>	67	<ul style="list-style-type: none"> <li>The Board of Directors may meet for the conduct of business adjourn and otherwise regulate its meetings as it thinks fit. A director may and the manager or secretary on the requisition of a director shall at any time summon a meeting of the Board.</li> </ul>

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<input type="checkbox"/>	<input type="checkbox"/>	68	<ul style="list-style-type: none"> <li>Save as otherwise expressly provided in the Act questions arising at any meeting of the Board shall be decided by a majority of votes. In case of an equality of votes the Chairperson of the Board if any shall have a second or casting vote.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	69	<ul style="list-style-type: none"> <li>The continuing directors may act notwithstanding any vacancy in the Board but if and so long as their number is reduced below the quorum fixed by the Act for a meeting of the Board the continuing directors or director may act for the purpose of increasing the number of directors to that fixed for the quorum or of summoning a general meeting of the company but for no other purpose.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	70	<ul style="list-style-type: none"> <li>The Board may elect a Chairperson of its meetings and determine the period for which he is to hold office. If no such Chairperson is elected or if at any meeting the Chairperson is not present within five minutes after the time appointed for holding the meeting the directors present may choose one of their number to be Chairperson of the meeting.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	71	<ul style="list-style-type: none"> <li>The Board may subject to the provisions of the Act delegate any of its powers to committees consisting of such member or members of its body as it thinks fit. Any committee so formed shall in the exercise of the powers so delegated conform to any regulations that may be imposed on it by the Board.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	72	<ul style="list-style-type: none"> <li>A committee may elect a Chairperson of its meetings. If no such Chairperson is elected or if at any meeting the Chairperson is not present within five minutes after the time appointed for holding the meeting the members present may choose one of their members to be Chairperson of the meeting.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	73	<ul style="list-style-type: none"> <li>A committee may meet and adjourn as it thinks fit. Questions arising at any meeting of a committee shall be determined by a majority of votes of the members present and in case of an equality of votes the Chairperson shall have a second or casting vote.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	74	<ul style="list-style-type: none"> <li>All acts done in any meeting of the Board or of a committee thereof or by any person acting as a director shall notwithstanding that it may be afterwards discovered that there was some defect in the appointment of any one or more of such directors or of any person acting as aforesaid or that they or any of them were disqualified be as valid as if every such director or such person had been duly appointed and was qualified to be a director.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	75	<ul style="list-style-type: none"> <li>Save as otherwise expressly provided in the Act a resolution in writing signed by all the members of the Board or of a committee thereof for the time being entitled to receive notice of a meeting of the Board or committee shall be valid and effective as if it had been passed at a meeting of the Board or committee duly convened and held.</li> </ul>
<input checked="" type="checkbox"/>	<input type="checkbox"/>	76	<ul style="list-style-type: none"> <li>In case of a One Person Company where the company is having only one director all the businesses to be transacted at the meeting of the Board shall be entered into minutes book maintained under section 118 such minutes book shall be signed and dated by the director the resolution shall become effective from the date of</li> </ul>

		<b>56</b>	signing such minutes by the director.
			<b><i>Chief Executive Officer, Manager, Company Secretary or Chief Financial Officer</i></b>
<input type="checkbox"/>	<input type="checkbox"/>	77	<ul style="list-style-type: none"> <li>Subject to the provisions of the Act a chief executive officer manager company secretary or chief financial officer may be appointed by the Board for such term at such remuneration and upon such conditions as it may think fit and any chief executive officer manager company secretary or chief financial officer so appointed may be removed by means of a resolution of the Board A director may be appointed as chief executive officer manager company secretary or chief financial officer</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	78	<ul style="list-style-type: none"> <li>A provision of the Act or these regulations requiring or authorising a thing to be done by or to a director and chief executive officer manager company secretary or chief financial officer shall not be satisfied by its being done by or to the same person acting both as director and as or in place of chief executive officer manager company secretary or chief financial officer.</li> </ul>
			<b><i>The Seal</i></b>
<input type="checkbox"/>	<input type="checkbox"/>	79	<ul style="list-style-type: none"> <li>The Board shall provide for the safe custody of the seal. The seal of the company shall not be affixed to any instrument except by the authority of a resolution of the Board or of a committee of the Board authorised by it in that behalf and except in the presence of at least two directors and of the secretary or such other person as the Board may appoint for the purpose and those two directors and the secretary or other person aforesaid shall sign every instrument to which the seal of the company is so affixed in their presence.</li> </ul>
			<b><i>Dividends and Reserve</i></b>
<input type="checkbox"/>	<input type="checkbox"/>	80	<ul style="list-style-type: none"> <li>The company in general meeting may declare dividends but no dividend shall exceed the amount recommended by the Board.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	81	<ul style="list-style-type: none"> <li>Subject to the provisions of section 123 the Board may from time to time pay to the members such interim dividends as appear to it to be justified by the profits of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	82	<ul style="list-style-type: none"> <li>The Board may before recommending any dividend set aside out of the profits of the company such sums as it thinks fit as a reserve or reserves which shall at the discretion of the Board be applicable for any purpose to which the profits of the company may be properly applied including provision for meeting contingencies or for equalizing dividends and pending such application may at the like discretion either be employed in the business of the company or be invested in such investments (other than shares of the company) as the Board may from time to time thinks fit. The Board may also carry forward any profits which it may consider necessary not to divide without setting them aside as a reserve</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>Subject to the rights of persons if any entitled to shares with special rights as to dividends all dividends shall be declared and paid according to the amounts paid or credited as paid on the shares in</li> </ul>

		83	<p>respect whereof the dividend is paid but if and so long as nothing is paid upon any of the shares in the company dividends may be declared and paid according to the amounts of the shares. No amount paid or credited as paid on a share in advance of calls shall be treated for the purposes of this regulation as paid on the share. All dividends shall be apportioned and paid proportionately to the amounts paid or credited as paid on the shares during any portion or portions of the period in respect of which the dividend is paid but if any share is issued on terms providing that it shall rank for dividend as from a particular date such share shall rank for dividend accordingly.</p>
<input type="checkbox"/>	<input type="checkbox"/>	84	<ul style="list-style-type: none"> <li>The Board may deduct from any dividend payable to any member all sums of money if any presently payable by him to the company on account of calls or otherwise in relation to the shares of the company.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	85	<ul style="list-style-type: none"> <li>Any dividend interest or other monies payable in cash in respect of shares may be paid by cheque or warrant sent through the post directed to the registered address of the holder or in the case of joint holders to the registered address of that one of the joint holders who is first named on the register of members or to such person and to such address as the holder or joint holders may in writing direct. Every such cheque or warrant shall be made payable to the order of the person to whom it is sent.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	86	<ul style="list-style-type: none"> <li>Any one of two or more joint holders of a share may give effective receipts for any dividends bonuses or other monies payable in respect of such share.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	87	<ul style="list-style-type: none"> <li>Notice of any dividend that may have been declared shall be given to the persons entitled to share therein in the manner mentioned in the Act.</li> </ul>
<input type="checkbox"/>	<input type="checkbox"/>	88	<ul style="list-style-type: none"> <li>No dividend shall bear interest against the company.</li> </ul>
			<b>Accounts</b>
<input type="checkbox"/>	<input type="checkbox"/>	89	<ul style="list-style-type: none"> <li>The Board shall from time to time determine whether and to what extent and at what times and places and under what conditions or regulations the accounts and books of the company or any of them shall be open to the inspection of members not being directors. No member (not being a director) shall have any right of inspecting any account or book or document of the company except as conferred by law or authorised by the Board or by the company in general meeting.</li> </ul>
			<b>Winding up</b>
<input type="checkbox"/>	<input type="checkbox"/>		<ul style="list-style-type: none"> <li>Subject to the provisions of Chapter XX of the Act and rules made thereunder If the company shall be wound up the liquidator may with the sanction of a special resolution of the company and any other sanction required by the Act divide amongst the members in specie or kind the whole or any part of the assets of the company whether they shall consist of property of the same kind or not. For the purpose aforesaid the liquidator may set such value as he</li> </ul>

		90	<b>58</b>	deems fair upon any property to be divided as aforesaid and may determine how such division shall be carried out as between the members or different classes of members. The liquidator may with the like sanction vest the whole or any part of such assets in trustees upon such trusts for the benefit of the contributories if he considers necessary but so that no member shall be compelled to accept any shares or other securities whereon there is any liability.
				<b>Indemnity</b>
<input type="checkbox"/>	<input type="checkbox"/>			<ul style="list-style-type: none"> <li>Every officer of the company shall be indemnified out of the assets of the company against any liability incurred by him in defending any proceedings whether civil or criminal in which judgment is given in his favour or in which he is acquitted or in which relief is granted to him by the court or the Tribunal.</li> </ul>
		91		
				<b>Others</b>
<input type="checkbox"/>	<input type="checkbox"/>	92		•

#### Subscriber Details

S. No.	Subscriber Details				
	*Name, Address, Description and Occupation	DIN / PAN / Passport number	*Place	DSC	Dated
1	ALOK SINGH S/O JAGDHARI SINGH NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O MF-23 ELDECO MANSIONZ, SECTOR-48, SOHNA ROAD, GURUGRAM-122018, OCCUPATION-SERVICE	07498786	NEW DELHI		20/03/2024
2	MUKUL AGARWAL S/O SHRI RAJESH KUMAR NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O HOUSE NO. 767, SECOND FLOOR, ANSAL C-2 BLOCK, NEAR WATER TANK ANSAL PLAZA, SECTOR-3 PALAM VIHAR, GURGAON-122017, HARYANA OCCUPATION-SERVICE	10322882	NEW DELHI		20/03/2024
3	REC POWER DEVELOPMENT AND CONSULTANCY LIMITED, CORE-4, SCOPE COMPLEX, 7, LODHI ROAD, NEW DELHI-110003, THROUGH ITS CEO RAJESH KUMAR S/O SHRINIWAS GUPTA R/O L-187, NAG MANDIR KE PAS SHASTRI NAGAR, ASHOK VIHAR, DELHI 110052, OCCUPATION-SERVICE	06941428	NEW DELHI		20/03/2024
4	MOHAN LAL KUMAWAT S/O SHRI RAMU RAM KUMAWAT NOMINEE OF RE C POWER DEVELOPMENT AND CONSULTANCY LIMITED FLAT NO 142 TOWER -1 GC EMERALD, RAMPRASTHA GREENS VAISHALI SECTOR-7,	07682898	NEW DELHI		20/03/2024

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	GHAZIABAD-201010, UTTAR PRADESH, OCCUPATION-SERVICE				
5	PUTHIYARKATTU SHIVARAMAN HARIHARAN S/O SHRI PUTHIYARAKAT VELAYUDHAN SIVARAMAN NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED FLAT NO.104, SADAR APARTMENT, MAYUR VIHAR EXTENTION, PHASE-1, PLOT NO.9, NEW DELHI-110091, OCCUPATION- SERVICE	08657652	NEW DELHI		20/03/2024
6	THANGARAJAN SUBASH CHANDIRA BOSH S/O SHRI SITHAN THANGARAJAN NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITE D R/O APARTMENT NO S-2, MIDDLE PORTION 2-B, JANGPURA, MATHURA ROAD, NEW DELHI-110014, OCCUPATION-SERVICE	02772316	NEW DELHI		20/03/2024
7	ARVIND KUMAR S/O NAND KISHOR SINGH NOMINEE OF REC POWER DEVELOPMENT AND CONSULTANCY LIMITED R/O T4-8A, SAI VATIKA APARTMENT, SECTOR-63, FARIDABAD - 121004, OCCUPATION-SERVICE	10342637	NEW DELHI		20/03/2024

## Signed before me

Name Prefix (ACA/FCA/ACS/ FCS/ACMA/ FCMA)	*Name of the witness	*Address, Description and Occupation	*DIN / PAN / Passport number / Membership		DSC	Dated
FCA	VINAY KUMAR	A-805, NX BYTE T-3, NX ONE, TECH ZONE - IV, GREATER NOIDA WEST -201318	402996	NEW DELHI	DIN8##402996	20/03/2024

**Annexure P-3**

सत्यमेव जयते

भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केंद्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II

Power System Planning &amp; Appraisal Division-II

सेवा में /To

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की सोलहवीं बैठक का कार्यवृत्त - के सम्बन्ध में।

**Subject: Minutes of the 16<sup>th</sup> Meeting of National Committee on Transmission (NCT) – regarding.**

महोदया (Madam) / महोदय (Sir),

The 16<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) was held on 30<sup>th</sup> November, 2023. The minutes of the meeting are enclosed herewith.

भवदीय/Yours faithfully,

(राकेश गोयल / Rakesh Goyal)

मुख्य अभियन्ता एवं सदस्य सचिव, एन.सी.टी.

/ Chief Engineer &amp; Member Secretary (NCT)

**प्रतिलिपि / Copy to:**

Joint Secretary (Trans), Ministry of Power, New Delhi

I/32647/2023

**61****List of Addressee:**

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power System), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Ajay Yadav, Joint Secretary Room no 403, Atal Akshay Urja Bhawan Opposite CGO Complex gate no 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9, Qutub, Institutional Area, Katwaria Sarai, New Delhi – 110010
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

**Special Invitee**

Chief Engineer (PCD), CEA

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**Minutes of the 16<sup>th</sup> meeting of National Committee on Transmission**

**1 Confirmation of the minutes of the 15<sup>th</sup> meeting of National Committee on Transmission.**

- 1.1 The minutes of the 15<sup>th</sup> meeting of NCT held on 25.08.2023 were issued vide CEA letter no CEA-PS-12-13/3/2019-PSPA-II dated 18.09.2023.
- 1.2 CTUIL had requested the amendment in para 3.9.4 of the minutes of 15<sup>th</sup> NCT meeting for clarity. Accordingly, it was proposed to replace the table under para 3.9.4 as under:

<i>Sl. No.</i>	<i>Original Scope</i>	<i>Revised Scope</i>
1.	<i>Replacement of old OPGW and terminal equipment on existing 400 kV Agra – Ballabharh line (181 km) with new OPGW and terminal equipment</i>	<i>Supply &amp; Installation of OPGW alongwith terminal equipment on existing 400 kV Agra – Ballabharh line (181 km)</i>
2.	<i>Replacement of old OPGW alongwith terminal equipment on 400 kV KishenpurWagoora line with new OPGW (183 km) except LILO portion at New Wanpoh (3 km) and terminal equipment</i>	<i>Supply &amp; Installation of OPGW alongwith terminal equipment on existing 400 kV Kishenpur – Wagoora line (183 km) except LILO portion at New Wanpoh (3 kms)</i>

- 1.3 Members confirmed the minutes with above amendment.

**2 Status of the transmission schemes noted/approved/recommended in the 15<sup>th</sup> meeting of NCT:**

- 2.1 Status of new transmission schemes approved/recommended:

<b>Sr. No</b>	<b>Name of the Transmission Scheme</b>	<b>Noted/ Recommended / Approved</b>	<b>Mode of Implementation</b>	<b>MoP approval</b>	<b>BPC</b>
1.	North Eastern Region Generation Scheme-I (NERGS-I)	Approved	TBCB	Notified vide Gazette dated 26.10.2023	RECPDCL
2.	Transmission Scheme for integration of Tumkur-II REZ in Karnataka	Recommended	TBCB	Would be taken up for approval after completion of survey by BPC	RECPDCL
3.	Transmission system strengthening for interconnections of	Recommended	TBCB	Notified vide Gazette dated 07.11.2023	PFCCCL

#### 4.6 Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

4.6.1 Govt. of Odisha had requested to establish ISTS sub-station in Gopalpur to meet the electricity requirement of upcoming Green Hydrogen and Green Ammonia plants/industries in Gopalpur, Odisha, with cumulative demand of about 3 GW by 2025-26.

4.6.2 Representative of CTUIL stated that as per inputs from Odisha STU there is a requirement of ISTS corridor to supply RE power from outside Odisha to such industries, to meet their RPO. Thus, keeping in view critical nature of large industrial demand and quantum of power requirement it is essential that Gopalpur S/s is feed reliably from ISTS and with high capacity lines. Accordingly, Angul – Gopalpur 765kV D/c line along with new 765/400kV GIS substation has been planned at Gopalpur.

4.6.3 ERPC in its 50<sup>th</sup> meeting held on 11-08-2023 had recommended the scheme and mentioned that implementation of the scheme may be taken up delinking it with the receipt of Connectivity / GNA applications from the industries

4.6.4 After deliberations, the scheme was recommended by NCT to be implemented through TBCB mode with tentative implementation timeframe of 30-06-2026.

4.6.5 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks
1.	Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)  Tentative Implementation timeframe: 30-06-2026	2898	Recommended Under TBCB route with RECPDCL as the BPC.

4.6.6 Detailed scope of the scheme is given below:

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.
1.	Establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha  <b>Additional space for future expansion:</b> - 765/400kV, 4x1500MVA ICTs (12x500MVA single phase	765/400 kV, 1500MVA ICTs: 2 Nos. (7x500 MVA single phase units including one spare)  765 kV ICT bays: 2 Nos.  400 kV ICT bays: 2 Nos.

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.
	<ul style="list-style-type: none"> <li>- units) along with associated ICT bays at both voltage levels</li> <li>- 400/220kV, 4x500MVA ICTs along with associated ICT bays at both voltage levels</li> <li>- 765kV, 2x330MVA (6x110MVA single phase units) bus reactor along with associated bays</li> <li>- 420kV, 2x125MVA bus reactor along with associated bays</li> <li>- 8 nos. of 765kV line bays (along with space for switchable line reactor) for future lines</li> <li>- 10 nos. of 400kV line bays (along with space for switchable line reactor) for future lines</li> <li>- 12 nos. of 220kV line bays for future lines</li> <li>- 765kV bus sectionaliser bay: 1 set</li> <li>- 400kV bus sectionaliser bay: 1 set</li> <li>- 220kV bus sectionaliser bay :1 set</li> <li>- 220kV bus coupler bay: 2 no.</li> </ul>	<p>765 kV, 330 MVA Bus reactor: 2 Nos. (7x110 MVA single phase units including one spare unit for both bus and line reactors)</p> <p>765 kV Bus reactor bays: 2 Nos.</p> <p>420 kV, 125 MVA Bus reactor: 2 Nos.</p> <p>400 kV Bus reactor bays: 2 Nos.</p> <p>765 kV line bays: 2 Nos.</p> <p>[for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVA switchable line reactor at Gopalpur end in both circuits]</p> <p>400 kV line bays: 2 Nos.</p> <p>[for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</p> <p>765 kV, 330 MVA (3x110 MVA single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) [at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765 kV D/c line]: 2 Nos.</p>
2.	Angul – Gopalpur 765 kV D/c line	Route length: 205 km
3.	Extension at 765kV level at Angul (POWERGRID) S/s including bus extension in GIS	<p>765 kV GIS/Hybrid line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765kV D/c line]</p> <p>including bus extension in GIS of about 3000 m</p>

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.
4.	Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line <sup>@</sup>	Route length: 20 km (approx.)
5.	Extension at 400kV level at <sup>#</sup> Gopalpur (OPTCL) GIS S/s	400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line] + <sup>#</sup> 2 nos. for diameter completion

**Note:**

- (a) <sup>@</sup>Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.
- (b) <sup>#</sup>The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- (c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- (d) POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.

**4.7 Eastern Region Generation Scheme-I (ERGS-I)**

4.7.1 Representative of CTUIL stated that ISTS Connectivity of 2000 MW has been provided to M/s NLC India Limited for its upcoming Talabira (3x800 MW) generation project through LILO of both circuits of Angul – Sundargarh (Jharsuguda) 765 kV 2xS/c lines at NLC-Talabira generation switchyard. Tentative implementation timeframe is 01.05.2027.

4.7.2 NCT approved implementation of Eastern Region Generation Scheme-I (ERGS-I) with details given below to be implemented through TBCB mode.

4.7.3 Summary of the scheme is given below:

SI No.	Name of the scheme and tentative implementation timeframe	Estimated Cost (₹ Crores)	Remarks



# भारत का राजपत्र The Gazette of India

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EXTRAORDINARY

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विद्युत मंत्रालय

अधिसूचना

नई दिल्ली, 28 फरवरी, 2024

का.आ. 988(अ).—केंद्र सरकार, विद्युत अधिनियम, 2003 (2003 की संख्या 36) की धारा 63 के अंतर्गत परिचालित दिशानिर्देशों के पैरा 3 के उप-पैरा 3.2 द्वारा प्रदत्त शक्तियों का प्रयोग करते हुए, पारेषण संबंधी राष्ट्रीय समिति की 16वीं बैठक की सिफारिशों पर, टीबीसीबी मोड के तहत निम्नलिखित पारेषण स्कीमों को उनके संबंधित बोली-प्रक्रिया समन्वयक (बीपीसी) के साथ अधिसूचित करती है:

क्र.सं.	पारेषण स्कीम का नाम एवं कार्यक्षेत्र		
1.	क्षेत्र में विद्युत निकासी हेतु गुजरात के नवीनल (मुंद्रा) क्षेत्र में नेटवर्क विस्तार स्कीम” कार्यान्वयन की संभावित समय-सीमा: 21 महीने बीपीसी: पीएफसी कंसल्टिंग लिमिटेड कार्यक्षेत्र		
	क्र.सं.	पारेषण स्कीमका कार्यक्षेत्र	क्षमता (एमवीए) / मार्ग की लंबाई (किमी)
	1.	2x330 एमवीएआर, 765 केवी और 1x125 एमवीएआर, 420 केवी बस रिएक्टरों के साथ 4x1500 एमवीए,	चार 765/400 केवी, 1500 एमवीए आईसीटी (एक अतिरिक्त आईसीटी यूनिट

	<p>765/400 केवी नवीनल (मुंद्रा) एस/एस (जीआईएस) की स्थापना</p> <p><b>भावी प्रावधान (इसके लिए स्थान):</b></p> <ul style="list-style-type: none"> <li>➤ बे सहित दो 765/400 केवी आईसीटी</li> <li>➤ स्विचेबल लाइन रिएक्टरों के साथ चार 765 केवी लाइन बे</li> <li>➤ बे सहित दो 765 केवी बस रिएक्टर</li> <li>➤ 765 केवी सेक्शनलाइज़र: 1-सेट</li> <li>➤ स्विचेबल लाइन रिएक्टरों के साथ छः 400 केवी लाइन बे (नोट के तहत उल्लिखित एमयूएल- नेविनल (मुंद्रा) (जीआईएस) 400 केवी 2xडी/सी लाईन के लिए 4 बे के अलावा)</li> <li>➤ बे सहित छः 400/220 केवी आईसीटी।</li> <li>➤ बे सहित तीन 400 केवी बस रिएक्टर।</li> <li>➤ 400 केवी सेक्शनलाइजेशन बे: 1- सेट</li> <li>➤ दस 220 केवी लाइन बे।</li> <li>➤ 220 केवी सेक्शनलाइजेशन बे: 1 सेट</li> <li>➤ दो 220 केवी बीसी और टीबीसी।</li> <li>➤ एमएससी (2x125 एमवीएआर) और एमएसआर (1x125 एमवीएआर) और संबंधित बे के साथ दो स्टेटकॉम (±300 एमवीएआर)।</li> </ul>	<p>सहित 13x500 एमवीए सिंगल फेज यूनिट्स)</p> <p>चार 765 केवी आईसीटी बे।</p> <p>चार 400 केवी आईसीटी बे।</p> <p>चार 765 केवी लाइन बे।</p> <p>दो 1x330 एमवीएआर, 765 केवी बस रिएक्टर (7x110 एमवीएआर सिंगल फेज रिएक्टर जिसमें बस/लाइन रिएक्टर के लिए एक अतिरिक्त इकाई शामिल है)।</p> <p>दो 765 केवी बस रिएक्टर बे।</p> <p>एक 125 एमवीएआर, 420 केवी रिएक्टर।</p> <p>एक 400 केवी रिएक्टर बे।</p>
2.	<p>नवीनल (मुंद्रा) (जीआईएस) एस/एस पर संबद्ध बे के साथ नवीनल (मुंद्रा) (जीआईएस) एस/एस पर भुज-II से लकाडिया 765 केवी डी/सी लाइन का लिलो।</p>	<p>लिलो मार्ग की लंबाई: 70 किमी (280 सीकेएम)।</p>
3.	<p>लकाडिया से नेविनल 765 केवी डी/सी लाईन (उपरोक्त एलआईएलओ के बाद गठित) के नेविनलछोर पर प्रत्येक सीकेटी पर 1x330 एमवीएआर स्विचेबल लाईन रिएक्टर की स्थापना।</p>	<p>दो 1x330 एमवीएआर, 765 केवी स्विचेबल लाइन रिएक्टर।</p> <p>765 केवी लाइन रिएक्टर के लिए दो स्विचिंग उपकरण।</p>

**टिप्पणी:**

- (i) टीएसपी द्वारा डेढ़ ब्रेकर स्कीम में व्यास (जीआईएस) को पूरा करने के लिए आवश्यक बे(ओं) को भी निष्पादित किया जाएगा।
- (ii) टीएसपी, नवीनल (मुंद्रा) (जीआईएस) के 765 केवी स्तर पर पांच पूर्ण व्यास लागू करेगा, जिसमें डेढ़ ब्रेकर स्कीम में व्यास (जीआईएस) को पूरा करने के लिए आवश्यक 2 मुख्य बे और 1 टाई बे शामिल होंगे। (4 आईसीटी बे + 4 लाइन बे + 2 बस रिएक्टर बे)।
- (iii) इसके अलावा, टीएसपी नवीनल (मुंद्रा) (जीआईएस) के 400 केवी स्तर पर चार पूर्ण व्यास भी लागू करेगा, जिसमें डेढ़ ब्रेकर स्कीम में व्यास (जीआईएस) को पूरा करने के लिए आवश्यक 2 मुख्य बे और 1 टाई बे शामिल होंगे। (4 आईसीटी बे + 1 बस रिएक्टर बे + 3 व्यास पूर्णता के लिए)।

	<p>(iv) नेविनल (मुंद्रा) एस/एस (जीआईएस) के साथ 400/220 केवी एमयूएल (वितरण लाइसेंसधारी) एस/एस के इंटरकनेक्शन हेतु निम्नलिखित कार्य क्षेत्र एमयूएल के अधिकार क्षेत्र में है और इसे उसी समय सीमा में लागू किया जाना आवश्यक है:</p> <ul style="list-style-type: none"> <li>एमयूएल-नेविनल (मुंद्रा) (जीआईएस) 400 केवी 2xडी/सी (ट्रिवन एचटीएलएस- क्लाड मूज समतुल्य) (इसका निर्माण और रखरखाव लाइसेंसधारी द्वारा इस इकाई की लागत पर किया जाएगा) तथा केसीएल, एमपीएल को विद्युत निकासी हेतु एमयूएल के 400/220 केवी सबस्टेशन से जोड़ा जायेगा।</li> <li>एमयूएल नवीनल छोर पर डेढ़ ब्रेकर स्कीम में 2 मुख्य बे और 1 टाई बे से युक्त एक पूर्ण व्यास (जीआईएस) लागू करेगा क्योंकि व्यास को पूरा करने के लिए टीएसपी द्वारा कार्यान्वित किए जा रहे अतिरिक्त बे में 3 लाइन बे को समाप्त किया जा सकता है।</li> <li>वितरण लाइसेंसधारी एमयूएल छोर पर चार 400 केवी लाइन बे।</li> </ul>				
2.	<p><b>पूर्वी क्षेत्र विस्तार स्कीम- X X X IX ( ईआरईएस-X X X IX )</b> कार्यान्वयन की संभावित अवधि: 30.06.2026 बीपीसी: आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड कार्यक्षेत्र:</p> <table border="1"> <tr> <td> <p>1. ओडिशा के गोपालपुर में नए 765/400 केवी, 2x1500 एमवीए जीआईएस सबस्टेशन की स्थापना भविष्य में विस्तार के लिए अतिरिक्त क्षेत्र:-</p> <ul style="list-style-type: none"> <li>765/400 केवी, 4x1500 एमवीए आईसीटी (12x500 एमवीए सिंगल फेज यूनिट्स) दोनों वोल्टेज स्तरों पर संबंधित आईसीटी बे के साथ</li> <li>दोनों वोल्टेज स्तरों पर संबंधित आईसीटी बे के साथ 400/220 केवी, 4x500 एमवीए आईसीटी</li> <li>संबंधित बे के साथ 765 केवी, 2x330 एमवीएआर (6x110 एमवीएआर सिंगल फेज यूनिट्स) बस रिएक्टर</li> <li>संबंधित बे के साथ 420 केवी, 2x125 एमवीएआर बस रिएक्टर</li> <li>भविष्य में लाइन बिछाने के लिए आठ 765 केवी लाइन बे (स्विचबल लाइन रिएक्टर हेतु स्थान के साथ)।</li> <li>भविष्य में लाइन बिछाने के लिए दस 400 केवी लाइन बे (स्विचबल लाइन रिएक्टर हेतु स्थान के साथ)।</li> <li>भविष्य में लाइन बिछाने के लिए बारह 220 केवी लाइन बे।</li> <li>765 केवी बस सेक्शनलाईज़र बे: 1 सेट</li> <li>400 केवी बस सेक्शनलाईज़र बे: 1 सेट</li> <li>220 केवी बस सेक्शनलाईज़र बे: 1 सेट</li> <li>दो 220 केवी बस कपलर बे।</li> </ul> </td> <td> <p>दो 765/400 केवी, 1500 एमवीए आईसीटी (एक अतिरिक्त यूनिट सहित 7x500 एमवीए सिंगल फेजयूनिट्स)</p> <p>दो 765 केवी आईसीटी बे। दो 400 केवी आईसीटी बे। दो 765 केवी, 330 एमवीएआर बस रिएक्टर (7x110 एमवीएआर सिंगल फेज यूनिट्स, जिसमें बस और लाइन रिएक्टर दोनों के लिए एक अतिरिक्त इकाई शामिल है)</p> <p>दो 765 केवी बस रिएक्टर बे। दो 420 केवी, 125 एमवीएआर बस रिएक्टर दो 400 केवी बस रिएक्टर बे। दो 765 केवी लाइन बे।</p> <p>[दोनों सर्किट में गोपालपुर छोर पर 765 केवी, 1x330 एमवीएआर स्विचबल लाइन रिएक्टर के साथ अंगुल (पावरग्रिड) - गोपालपुर 765 केवी डी/सी लाइन की समाप्ति के लिए]</p> <p>दो 400 केवी लाइन बे।</p> <p>[गोपालपुर-गोपालपुर (ओपीटीसीएल) 400 केवी डी/सी (क्लाड) लाइन की समाप्ति के लिए]</p> <p>एसोसिएटेड बे और 500 ओम एनजीआर (एनजीआर बाईपास व्यवस्था के साथ) के साथ दो 765 केवी, 330 एमवीएआर (3x110 एमवीएआर सिंगल फेज यूनिट) स्विचबल लाइन रिएक्टर</p> <p>[गोपालपुर छोर पर अंगुल (पावरग्रिड)-गोपालपुर 765 केवी डी/सी लाइन के दोनों सर्किट में]</p> </td> </tr> <tr> <td>2.</td> <td> <p>अंगुल – गोपालपुर 765 केवी डी/सी लाइन</p> <p>मार्ग की लंबाई: 205 किमी</p> </td> </tr> </table>	<p>1. ओडिशा के गोपालपुर में नए 765/400 केवी, 2x1500 एमवीए जीआईएस सबस्टेशन की स्थापना भविष्य में विस्तार के लिए अतिरिक्त क्षेत्र:-</p> <ul style="list-style-type: none"> <li>765/400 केवी, 4x1500 एमवीए आईसीटी (12x500 एमवीए सिंगल फेज यूनिट्स) दोनों वोल्टेज स्तरों पर संबंधित आईसीटी बे के साथ</li> <li>दोनों वोल्टेज स्तरों पर संबंधित आईसीटी बे के साथ 400/220 केवी, 4x500 एमवीए आईसीटी</li> <li>संबंधित बे के साथ 765 केवी, 2x330 एमवीएआर (6x110 एमवीएआर सिंगल फेज यूनिट्स) बस रिएक्टर</li> <li>संबंधित बे के साथ 420 केवी, 2x125 एमवीएआर बस रिएक्टर</li> <li>भविष्य में लाइन बिछाने के लिए आठ 765 केवी लाइन बे (स्विचबल लाइन रिएक्टर हेतु स्थान के साथ)।</li> <li>भविष्य में लाइन बिछाने के लिए दस 400 केवी लाइन बे (स्विचबल लाइन रिएक्टर हेतु स्थान के साथ)।</li> <li>भविष्य में लाइन बिछाने के लिए बारह 220 केवी लाइन बे।</li> <li>765 केवी बस सेक्शनलाईज़र बे: 1 सेट</li> <li>400 केवी बस सेक्शनलाईज़र बे: 1 सेट</li> <li>220 केवी बस सेक्शनलाईज़र बे: 1 सेट</li> <li>दो 220 केवी बस कपलर बे।</li> </ul>	<p>दो 765/400 केवी, 1500 एमवीए आईसीटी (एक अतिरिक्त यूनिट सहित 7x500 एमवीए सिंगल फेजयूनिट्स)</p> <p>दो 765 केवी आईसीटी बे। दो 400 केवी आईसीटी बे। दो 765 केवी, 330 एमवीएआर बस रिएक्टर (7x110 एमवीएआर सिंगल फेज यूनिट्स, जिसमें बस और लाइन रिएक्टर दोनों के लिए एक अतिरिक्त इकाई शामिल है)</p> <p>दो 765 केवी बस रिएक्टर बे। दो 420 केवी, 125 एमवीएआर बस रिएक्टर दो 400 केवी बस रिएक्टर बे। दो 765 केवी लाइन बे।</p> <p>[दोनों सर्किट में गोपालपुर छोर पर 765 केवी, 1x330 एमवीएआर स्विचबल लाइन रिएक्टर के साथ अंगुल (पावरग्रिड) - गोपालपुर 765 केवी डी/सी लाइन की समाप्ति के लिए]</p> <p>दो 400 केवी लाइन बे।</p> <p>[गोपालपुर-गोपालपुर (ओपीटीसीएल) 400 केवी डी/सी (क्लाड) लाइन की समाप्ति के लिए]</p> <p>एसोसिएटेड बे और 500 ओम एनजीआर (एनजीआर बाईपास व्यवस्था के साथ) के साथ दो 765 केवी, 330 एमवीएआर (3x110 एमवीएआर सिंगल फेज यूनिट) स्विचबल लाइन रिएक्टर</p> <p>[गोपालपुर छोर पर अंगुल (पावरग्रिड)-गोपालपुर 765 केवी डी/सी लाइन के दोनों सर्किट में]</p>	2.	<p>अंगुल – गोपालपुर 765 केवी डी/सी लाइन</p> <p>मार्ग की लंबाई: 205 किमी</p>
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3.	जीआईएस में बस विस्तार सहित अंगुल (पावरग्रिड) एस/एस में 765 केवी स्तर पर विस्तार	दो 765 केवी जीआईएस/हाइब्रिड लाइन बे (भविष्य में स्विच करने योग्य लाइन रिएक्टर के लिए जगह के साथ) [अंगुल (पावरग्रिड)-गोपालपुर की समाप्ति के लिए 765 केवी डी/सी लाइन] जिसमें जीआईएस में लगभग 3000 मीटर का बस विस्तार शामिल है।
4.	गोपालपुर- गोपालपुर (ओपीटीसीएल) 400 केवी डी/सी (क्वाड) लाइन @	मार्ग की लंबाई: 20 किमी (लगभग)
5.	#गोपालपुर (ओपीटीसीएल) जीआईएस एस/एस में 400 केवी स्तर पर विस्तार	दो 400 केवी जीआईएस लाइन बे [गोपालपुर-गोपालपुर (ओपीटीसीएल) 400 केवी डी/सी (क्वाड) लाइन की समाप्ति के लिए] + व्यास पूरा करने के लिए दो लाईन बे #
<b>टिप्पणी:</b>		
<p>i. @ गोपालपुर (ओपीटीसीएल) में कार्यान्वयन का कार्य किया जा रहा है और मार्च, 2024 तक कार्य प्रारंभ होने की संभावना है। ओपीटीसीएल की सूचनाओं के अनुसार, गोपालपुर में 765/400 केवी (आईएसटीएस) और 400/220 केवी (अंतः राज्यीय) सबस्टेशनों के बीच 20 किमी लाइन की लंबाई पर विचार किया गया है।</p> <p>ii. # गोपालपुर (ओपीटीसीएल) जीआईएस एस/एस में 400 केवी स्तर की बस स्कीम डेड ब्रेकर स्कीम होगी, दो पूर्ण व्यास अर्थात् गोपालपुर (ओपीटीसीएल) - गोपालपुर 400 केवी डी/सी (क्वाड) लाइन को दो अलग-अलग व्यासों में समाप्त करने के लिए 2 जीआईएस बे की आवश्यकता के लिए इस स्कीम में 4 जीआईएस बे को लागू करने की आवश्यकता है। इन व्यासों के अन्य 2 जीआईएस बे के उपयोग की पहचान भविष्य में की जाएगी।</p> <p>iii. गोपालपुर (आईएसटीएस) - गोपालपुर (ओपीटीसीएल) 400 केवी डी/सी (क्वाड) लाइन की समाप्ति हेतु दो 400 केवी जीआईएस लाइन बे के कार्यान्वयन के लिए ओपीटीसीएल द्वारा कार्यान्वयनाधीन गोपालपुर (ओपीटीसीएल) 400/220 केवी जीआईएस एस/एस पर स्थान उपलब्ध कराया जाएगा। पूर्ण व्यास के 2 अर्थात् 4 जीआईएस बे स्थापित किए जाएंगे।</p> <p>iv. अंगुल (पावरग्रिड)-गोपालपुर 765 केवी डी/सी लाइन की समाप्ति के लिए पावरग्रिड द्वारा जीआईएस में बस विस्तार के साथ दो 765 केवी लाइन बे (भविष्य में स्विच करने योग्य लाइन रिएक्टर के लिए जगह के साथ) के कार्यान्वयन के लिए अंगुल (पावरग्रिड) 765/400 केवी एस/एस पर स्थान उपलब्ध कराया जाएगा।</p>		

2. इस संबंध में बोली प्रक्रिया समन्वयक की नियुक्ति विद्युत मंत्रालय द्वारा समय-समय पर संशोधित दिशानिर्देशों में विनिर्दिष्ट शर्तों के अधीन है।

[फा.सं. 15/3/2018-ट्रांस-पार्ट(1)]

बिहारी लाल, अवर सचिव (पारेषण)

## MINISTRY OF POWER

### NOTIFICATION

New Delhi, the 28th February, 2024

**S.O. 988(E).**—In exercise of the powers conferred by sub-para 3.2 of Para 3 of the Guidelines circulated under Section 63 of the Electricity Act, 2003 (No. 36 of 2003), the Central Government, on the recommendations of 16<sup>th</sup> meeting of National Committee on Transmission, hereby notifies the following transmission schemes under TBCB mode, with details of respective Bid-Process Coordinators (BPCs): -

Sl. No.	Name & Scope of the Transmission Scheme
1.	<p><b>Network Expansion Scheme in Navinal (Mundra) area of Gujarat for drawal of power in the area"</b></p> <p>Tentative implementation time-frame: 21 months</p> <p>BPC: PFC Consulting Limited</p> <p>Scope:</p>

Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Route Length (Km)
1.	<p>Establishment of 4x1500 MVA, 765/400 kV Navinal (Mundra) S/s (GIS) with 2x330 MVAR, 765 kV &amp; 1x125MVA, 420 kV bus reactors</p> <p><b>Future provision (space for):</b></p> <ul style="list-style-type: none"> <li>➤ 765/400 kV ICT along with bays- 2 Nos.</li> <li>➤ 765 kV line bays along with switchable line reactors – 4 Nos.</li> <li>➤ 765 kV Bus Reactor along with bay: 2 Nos.</li> <li>➤ 765 kV Sectionalizer: 1 –set</li> <li>➤ 400 kV line bays along with switchable line reactors– 6 Nos. (<i>in addition to 4 nos. bays for MUL – Navinal (Mundra) (GIS) 400 kV 2xD/c line mentioned under Note</i>)</li> <li>➤ 400/220 kV ICT along with bays -6 Nos.</li> <li>➤ 400 kV Bus Reactor along with bays: 3 Nos.</li> <li>➤ 400 kV Sectionalization bay: 1- set</li> <li>➤ 220 kV line bays: 10 Nos.</li> <li>➤ 220 kV Sectionalization bay: 1 set</li> <li>➤ 220 kV BC and TBC: 2 Nos.</li> <li>➤ STATCOM (±300 MVAR) along with MSC (2x125 MVAR) &amp; MSR (1x125 MVAR) and associated bays- 2 Nos.</li> </ul>	<p>765/400 kV, 1500 MVA ICT – 4 Nos. (13x500 MVA single phase units including one spare ICT Unit)</p> <p>765 kV ICT bays – 4 Nos.</p> <p>400 kV ICT bays – 4 Nos.</p> <p>765 kV Line bays – 4 Nos.</p> <p>1x330 MVAR, 765 kV bus reactor- 2 Nos. (7x110 MVAR single phase Reactors including one spare Unit for bus /line reactor)</p> <p>765 kV Bus reactor bay – 2 Nos.</p> <p>125 MVAR, 420 kV reactor- 1 Nos.</p> <p>400 kV Reactor bay- 1 No.</p>
2.	LILO of Bhuj-II – Lakadia 765 kV D/c line at Navinal(Mundra) (GIS) S/s with associated bays at Navinal (Mundra) (GIS) S/s	LILO Route length: 70 km (280 ckm)
3.	Installation of 1x330 MVAR switchable line reactor on each ckt at Navinal end of Lakadia – Navinal 765 kV D/c line (formed after above LILO)	<p>1x330 MVAR, 765 kV switchable line reactor – 2 Nos.</p> <p>Switching equipment for 765 kV line reactor – 2 Nos.</p>

**Note:**

- i. Bay(s) required for completion of diameter (GIS) in one-and-half breaker scheme shall also be executed by the TSP.
- ii. The TSP shall implement five complete diameters at 765 kV level of Navinal (Mundra) (GIS) consisting of 2 Main Bays & 1 Tie Bay required for completion of diameter (GIS) in one-and-half breaker scheme. (4 ICT bays + 4 Line Bays+2 Bus Reactor Bays).
- iii. Further, the TSP shall also implement four complete diameters at 400 kV level of Navinal (Mundra) (GIS) consisting of 2 Main Bays & 1 Tie Bay required for completion of diameter (GIS) in one-and-half breaker scheme. (4 ICT bays +1 Bus Reactor Bay + 3 for dia completion).
- iv. The following scope of works for interconnection of 400/220 kV MUL (Distribution Licensee) S/s with Navinal (Mundra) S/s (GIS) is under the scope of MUL and is required to be implemented in the same time frame:
  - MUL – Navinal (Mundra) (GIS) 400 kV 2xD/c (Twin HTLS - Quad Moose equivalent) (shall be constructed and maintained by a licensee at the cost of such entity) & KCL, MPL shall get interconnected with 400/220 kV Substation of MUL for drawal of power.
  - MUL shall implement one complete diameter (GIS) consisting of 2 main bays & 1 Tie bay in one and half breaker scheme at Navinal end as 3 line bays can be terminated in spare bays being implemented by TSP for completion of dia.
  - 4 no. 400kV Line bays at the Dist. Licensee MUL end.

<b>Eastern Region Expansion Scheme- XXXIX (ERES-XXXIX)</b>		
2. Tentative Implementation Time: 30.06.2026		
BPC: REC Power Development and Consultancy Limited		
Scope:		
<b>Sl. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Capacity (MVA)/ Route Length (Km)</b>
1.	Establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha Additional space for future expansion: - <ul style="list-style-type: none"> <li>• 765/400kV, 4x1500MVA ICTs (12x500MVA single phase units) along with associated ICT bays at both Voltage levels</li> <li>• 400/220kV, 4x500MVA ICTs along with associated ICT bays at both voltage levels</li> <li>• 765kV, 2x330MVA (6x110MVA single phase units) bus reactor along with associated bays</li> <li>• 420kV, 2x125MVA bus reactor along with associated bays</li> <li>• 8 nos. of 765kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 10 nos. of 400kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 12 nos. of 220kV line bays for future lines</li> <li>• 765kV bus sectionaliser bay: 1 set</li> <li>• 400kV bus sectionaliser bay: 1 set</li> <li>• 220kV bus sectionaliser bay :1 set</li> <li>• 220kV bus coupler bay: 2 no.</li> </ul>	765/400 kV, 1500MVA ICTs: 2 Nos. (7x500 MVA single phase units including one spare) 765 kV ICT bays: 2 Nos. 400 kV ICT bays: 2 Nos. 765 kV, 330 MVA Bus reactor: 2 Nos. (7x110 MVA single phase units including one spare unit for both bus and line reactors) 765 kV Bus reactor bays: 2 Nos. 420 kV, 125 MVA Bus reactor: 2 Nos. 400 kV Bus reactor bays: 2 Nos. 765 kV line bays: 2 Nos. [for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVA switchable line reactor at Gopalpur end in both circuits] 400 kV line bays: 2 Nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line] 765 kV, 330 MVA (3x110 MVA single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) [at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765 kV D/c line]: 2 Nos.
2.	Angul – Gopalpur 765 kV D/c line	Route length: 205 km
3.	Extension at 765kV level at Angul (POWERGRID) S/s including bus extension in GIS	765 kV GIS/Hybrid line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765kV D/c line] including bus extension in GIS of about 3000 m
4.	Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line@	Route length: 20 km (approx.)
5.	Extension at 400kV level at #Gopalpur (OPTCL) GIS S/s	400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line] + #2 nos. for diameter completion
<b>Note:</b>		
i. @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.		

	<p>ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.</p> <p>iii. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.</p> <p>iv. POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.</p>
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2. The appointment of the Bid Process Coordinator is subject to the conditions laid down in the Guidelines issued by Ministry of Power in this regard, amended from time to time.

[F. No. 15/3/2018-Trans-Part(1)]

BIHARI LAL, Under Secy. (Transmission)

**Annexure P-5**

सत्यमेव जयते

भारत सरकार

**Government of India**

विद्युत मंत्रालय

**Ministry of Power**

केंद्रीय विद्युत प्राधिकरण

**Central Electricity Authority**

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II

**Power System Planning & Appraisal Division-II**

सेवा में /To

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की अठारहवीं बैठक के कार्यवृत्त - के सम्बन्ध में ।

**Subject: Minutes of the 18<sup>th</sup> Meeting of National Committee on Transmission (NCT) – regarding.**

महोदया (Madam) / महोदय (Sir),

The 18<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) was held on 05<sup>th</sup> March, 2024 at CEA, New Delhi. Minutes of the meeting are enclosed herewith.

भवदीय/ Yours faithfully,

(बी.एस. बैरवा/ B.S.Bairwa)

निदेशक/ Director

**प्रतिलिपि / Copy to:**

Joint Secretary (Trans), Ministry of Power, New Delhi-110001

**List of Addresses:**

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power Systems), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Lalit Bohra, Joint Secretary Room no 602, Atal Akshay Urja Bhawan Opposite CGO Complex gate No. 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9, Qutub, Institutional Area, Katwaria Sarai, New Delhi – 110016
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

**Special Invitee**

Chief Engineer (PCD), CEA

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**Minutes of the 18<sup>th</sup> meeting of National Committee on Transmission**

The 18<sup>th</sup> meeting of NCT was held on 5<sup>th</sup> March, 2024 at CEA, New Delhi. List of participants is enclosed at **Annexure**.

**1 Confirmation of the minutes of the 17<sup>th</sup> meeting of National Committee on Transmission.**

1.1 The minutes of the 17<sup>th</sup> meeting of NCT held on 31.01.2024 were issued vide CEA letter no CEA-PS-12-13/3/2019-PSPA-II dated 16.02.2024. No comments were received on the minutes.

1.2 Members confirmed the minutes.

**2 Status of the transmission schemes noted/approved/recommended to MoP in the 17<sup>th</sup> meeting of NCT:**

2.1 Status of new transmission schemes approved/recommended:

Sl. No	Name of the Transmission Scheme	Noted/ Recommended/ Approved	BPC	Award/ Gazette notification
1.	Augmentation of transformation capacity by 2x500 MVA (7 <sup>th</sup> & 8 <sup>th</sup> ), 400/220 kV ICTs at Tumkur (Pavagada) 400/220 kV Pooling Station.	Approved (RTM)	POWERGRID	Letter issued by CEA to CTU on 16.02.2024.
2.	Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL)	Approved (RTM)	JKTL Adani Energy Solutions Ltd.	
3.	Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat-Part A	Approved (RTM)	WRSS XXI(A) Transco Ltd Adani Energy Solutions Ltd.	CTU issued letter to concerned TSPs on 16.02.2024.
4.	Additional transmission system for evacuation of power from Bhadla-III PS as part of Rajasthan REZ Phase-III scheme (20 GW)	Approved (TBCB)	RECPDCL	Gazette notification by CEA under process

2.2 Status of transmission schemes where modifications was suggested:

S. No.	Scheme where modifications was suggested	Status
1.	Network Expansion Scheme in Navinal (Mundra) area of Gujarat for drawal of power in the area	Informed to BPCs vide letter dated 16.02.2024
2.	Transmission system for evacuation of power from Shongtong Karcham HEP (450 MW) and Tidong HEP (150 MW)	

3.	Timeline for 1500 MVA, 765/400 kV ICT Augmentation at Jhatikara S/s	Informed to CTU vide letter dated 16.02.2024
4.	Change in Scope of the transmission scheme “Transmission Scheme for North Eastern Region Expansion Scheme-XVI (NERES-XVI)”	Informed to BPCs vide letter dated 16.02.2024
5.	Change in Scope of transmission scheme “Eastern Region Expansion Scheme-XXXIV (ERES-XXXIV)”	
6.	Change in implementation timeframe for Augmentation of transformation capacity at Bhuj-II PS	
7.	Change in Completion Schedule of transmission scheme North Eastern Region Generation Scheme-I (NERGS-I)	

2.3 Members noted the status.

### 3 Modifications in the earlier approved/notified transmission schemes:

#### 3.1 Modification in scope of work of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

3.1.1 Representative of CTUIL informed that ERES-XXXIX scheme was agreed in 16th meeting of NCT held on 30.11.2023 wherein extension at 765kV level at Angul S/s including bus extension in GIS for 2 Nos. line bays for termination of Angul – Gopalpur 765kV D/c line was agreed as GIS/Hybrid line bays. However, after detailed engineering, it was observed that the above two line bays at Angul S/s can be implemented in AIS along with bus extension in GIS. Accordingly, 2 Nos. of 765kV line bays at Angul need to be modified from GIS/Hybrid to AIS with bus extension in GIS. Accordingly, following changes are required in the scope of scheme.

As agreed in the 16 <sup>th</sup> meeting of NCT		Modified scope		
Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.
i.	Establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha  <b>Additional space for future expansion:</b> - 765/400kV, 4x1500MVA ICTs (12x500MVA single phase units) along with associated ICT	765/400kV, 1500MVA ICTs: 2 nos. (7x500MVA single phase units including one spare) 765kV ICT bays: 2 nos. 400kV ICT bays: 2 nos.  765kV, 330MVAr Bus reactor: 2 nos. (7x110MVAr single phase units including one spare unit for	No change.	No change.

	As agreed in the 16 <sup>th</sup> meeting of NCT		Modified scope	
Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.
	<ul style="list-style-type: none"> <li>- bays at both voltage levels 400/220kV, 4x500MVA ICTs along with associated ICT bays at both voltage levels</li> <li>- 765kV, 2x330MVA (6x110MVA single phase units) bus reactor along with associated bays</li> <li>- 420kV, 2x125MVA bus reactor along with associated bays</li> <li>- 8 nos. of 765kV line bays (along with space for switchable line reactor) for future lines</li> <li>- 10 nos. of 400kV line bays (along with space for switchable line reactor) for future lines</li> <li>- 12 nos. of 220kV line bays for future lines</li> <li>- 765kV bus sectionaliser bay: 1 set</li> <li>- 400kV bus sectionaliser bay: 1 set</li> <li>- 220kV bus sectionaliser bay :1 set</li> <li>- 220kV bus coupler bay: 2 no.</li> </ul>	<ul style="list-style-type: none"> <li>both bus and line reactors)</li> <li>765kV Bus reactor bays: 2 nos.</li> <li>420kV, 125MVA Bus reactor: 2 nos.</li> <li>400kV Bus reactor bays: 2 nos.</li> <li>765kV line bays: 2 nos.</li> <li><i>[for termination of Angul (POWERGRID) – Gopalpur 765kV D/c line along with 765kV, 1x330MVA switchable line reactor at Gopalpur end in both circuits]</i></li> <li>400kV line bays: 2 nos.</li> <li><i>[for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line]</i></li> <li>765kV, 330MVA (3x110MVA single phase units) switchable line reactor along with associated bay and 500ohm NGR (with NGR bypass arrangement) <i>[at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765kV D/c line]; 2 nos.</i></li> </ul>		
ii.	Angul – Gopalpur	205km	No change.	No change.

	As agreed in the 16 <sup>th</sup> meeting of NCT		Modified scope	
Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.
	765kV D/c line			
iii.	Extension at 765kV level at Angul (POWERGRID) S/s including bus extension in GIS	765kV GIS/Hybrid line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765kV D/c line] including bus extension in GIS of about 3000m	No change.	765kV AIS line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765kV D/c line] including bus extension in GIS of about 3000m
iv.	Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line@	@20km	No change.	No change.
v.	Extension at 400kV level at #Gopalpur (OPTCL) GIS S/s	400kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line] + #2 nos. for diameter completion	No change.	No change.
	<p><b>Note:</b></p> <p>(a) @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20km line has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.</p> <p>(b) #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two</p>		No change.	

	As agreed in the 16 <sup>th</sup> meeting of NCT		Modified scope	
Sl. No.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.	Scope of the Transmission Scheme	Capacity (MVA) / Line length (km)/ Nos.
	<p><i>different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.</i></p> <p><i>(c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.</i></p> <p><i>(d) POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.</i></p> <p><i>(e) The line lengths mentioned above are approximate, as the exact length shall be obtained after detailed survey.</i></p>			

3.1.2 After deliberations, NCT approved the above modifications.

#### 4 New Transmission Schemes:

##### 4.1 Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-3:6 GW) [Bikaner complex]

4.1.1 Representative of CTUIL stated that considering grant of connectivity to RE generators in Bikaner complex as well as for evacuation of power beyond this complex, transmission scheme from Bikaner Complex as part of Rajasthan REZ Ph-IV (Part-3 : 6 GW) is required.

4.1.2 He further stated that, the transmission scheme was discussed and agreed in the 71<sup>st</sup> NRPC meeting held on 29.01.24. Total cost of the scheme is approx. Rs 11325.86 Crs

4.1.3 NCT recommended the Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-3:6GW) [Bikaner complex] to be implemented in two packages through TBCB mode.

4.1.4 Summary of the scheme is given below:

SI	Name of the scheme and tentative implementation	Estimated Cost	Remarks

**Annexure P-6 (Colly)**  
**82**

**STANDARD SINGLE STAGE REQUEST FOR  
PROPOSAL DOCUMENT**

**FOR**

**SELECTION OF BIDDER AS TRANSMISSION  
SERVICE PROVIDER THROUGH TARIFF BASED  
COMPETITIVE BIDDING PROCESS**

**TO**

**ESTABLISH INTER-STATE TRANSMISSION SYSTEM**

**FOR**

**EASTERN REGION EXPANSION SCHEME-XXXIX  
(ERES-XXXIX)**

**ISSUED BY**

**REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)**

**Registered Office:  
Core-4, SCOPE Complex,  
7, Lodhi Road, New Delhi – 110 003  
Email: pshariharan@recpdcl.in & tcb@recpdcl.in**

**16.03.2024**

**REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
Core-4, SCOPE Complex,  
7, Lodhi Road, New Delhi – 110 003**

**Request for Proposal Document for selection of Bidder as Transmission Service Provider through tariff based competitive bidding process to establish Inter-State Transmission system under “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” is issued by REC Power Development and Consultancy Limited.**

This RFP document is issued to -

M/s. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)**

Email: .....

Place: .....

Date: .....

Signature: .....

## REQUEST FOR PROPOSAL NOTIFICATION

**REC Power Development and Consultancy Limited**  
**(A wholly owned subsidiary of REC Limited)**  
**Core-4, SCOPE Complex,**  
**7, Lodhi Road, New Delhi – 110 003**

1. Ministry of Power, Government of India vide its notification no 943 [F. No. 15/3/2018-Trans-Part (1)] dated 01.03.2024 has notified REC Power Development and Consultancy Limited to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system under “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**” through tariff based competitive bidding process.
2. REC Power Development and Consultancy Limited (hereinafter referred to as BPC) hereby invites all prospective Bidders for issue of Request for Proposal (RFP) for selection of Bidder as Transmission Service Provider (TSP) on the basis of international competitive bidding in accordance with the “Tariff Based Competitive Bidding Guidelines for Transmission Service” and “Guidelines for Encouraging Competition in Development of Transmission Projects” issued by Government of India, Ministry of Power under section – 63 of The Electricity Act, 2003 and as amended from time to time. The responsibility of the TSP would be to establish the following Inter-State Transmission System under “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**” (hereinafter referred to as 'Project') on build, own, operate & transfer basis and to provide transmission service:

Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	<p>Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha</p> <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICTs: 2 nos. (7x500MVA single phase units including one spare)</li> <li>• 765 kV ICT bays: 2 nos.</li> <li>• 400 kV ICT bays: 2 nos.</li> <li>• 765 kV, 330 MVAr Bus reactor: 2 nos. (7x110 MVAr single phase units including one spare unit for both bus and line reactors)</li> <li>• 765 kV Bus reactor bays: 2 nos.</li> <li>• 420 kV, 125 MVAr Bus reactor: 2 nos.</li> <li>• 400 kV Bus reactor bays: 2 nos.</li> <li>• 765 kV line bays: 2 nos.</li> </ul> <p><i>[for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAr switchable line reactor at Gopalpur end in both circuits]</i></p> <ul style="list-style-type: none"> <li>• 400 kV line bays: 2 nos.</li> </ul> <p><i>[for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</i></p>	30.06.2026

	<ul style="list-style-type: none"> <li>• 765 kV, 330 MVA<sub>r</sub> (3x110 MVA<sub>r</sub> single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) [at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765 kV D/c line]; 2 nos.</li> </ul> <p><b>Additional space for future expansion:</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV, 4x1500 MVA ICTs (12x500MVA single phase units) along with associated ICT bays at both voltage levels</li> <li>• 400/220 kV, 4x500 MVA ICTs along with associated ICT bays at both voltage levels</li> <li>• 765 kV, 2x330 MVA<sub>r</sub> (6x110 MVA<sub>r</sub> single phase units) bus reactor along with associated bays</li> <li>• 420 kV, 2x125 MVA<sub>r</sub> bus reactor along with associated bays</li> <li>• 8 nos. of 765 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 10 nos. of 400 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 12 nos. of 220 kV line bays for future lines</li> <li>• 765 kV bus sectionaliser bay: 1 set</li> <li>• 400 kV bus sectionaliser bay: 1 set</li> <li>• 220 kV bus sectionaliser bay :1 set</li> <li>• 220 kV bus coupler bay: 2 no.</li> </ul>	
2.	Angul – Gopalpur 765 kV D/c line	
3.	<p>Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS</p> <ul style="list-style-type: none"> <li>• 765 kV AIS line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line] including bus extension in GIS of about 3000 m</li> </ul>	
4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line <sup>@</sup>	
5.	<p>Extension at 400 kV level at <sup>#</sup>Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>• 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line] + <sup>#</sup>2 nos. for diameter completion</li> </ul>	

**Note:**

- i. @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.400/220kV (Intra-state) substations at Gopalpur.
  - ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
  - iii. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
  - iv. POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.
3. The TSP shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with the provisions of the Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.
  4. **Transmission License:** The TSP shall obtain the Transmission License from the Commission.
  5. **Bidding Process:** The Transmission Service Provider shall be selected through tariff based competitive bidding process for the Project based on meeting stipulated Qualification Requirements prescribed in Clause 2.1 of Section 2 of RFP and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. The selection of the TSP shall be subject to it obtaining Transmission License from the Commission, which, after expiry, may be further extended by such period as deemed appropriate by the Commission under powers vested with it to amend the conditions of the Transmission License.

The entire bidding process shall be conducted on electronic platform created by MSTC Limited.

The Bid shall be a single stage two envelope bid comprising the Technical Bid and the Financial Bid. The Bidders shall submit the Bid online through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

The Technical Bid shall be opened first and the Financial Bid of only the bidder who have qualified in the Technical Bid shall be opened. The Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending

order. The Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.

6. The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of .....**[Insert the name of the SPV]** along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

The .....**[Insert the name of the SPV]**, of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

7. **Commencement of Transmission Service:** The Bidder shall have to commence Transmission Service in accordance with the provisions of the Transmission Service Agreement.
8. **Transmission Charges:** The Transmission Charges shall be payable by the Designated ISTS Customers in Indian Rupees through the CTU as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time. Bidders shall quote the Transmission Charges as per the pre-specified structure, as mentioned in the RFP.
9. **Issue of RFP document:** The detailed terms and conditions for qualification and selection of the Transmission Service Provider for the Project and for submission of Bid are indicated in the RFP document. All those interested in purchasing the RFP document may respond in writing to Chief Executive Officer, [pshariharan@recpdcl.in](mailto:pshariharan@recpdcl.in) & [tcb@recpdcl.in](mailto:tcb@recpdcl.in) at the address given in para 12 below with a non-refundable fee of Rs. 5,00,000/- (Rupees Five Lakh Only) or US\$ 7,000 (US Dollars Seven Thousand Only) plus GST @18%, to be paid latest by 17.05.2024 via electronic transfer to the following Bank Account:

Bank Name, Address & Branch	ICICI Bank 9A, Phelps Building, Inner Circle, Connaugh Place, New Delhi-110001
Bank Account Name	REC Power Development & Consultancy Limited
Bank Account No	000705041275
Bank IFSC Code No	ICIC0000007

Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in Annexure B, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director / Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of

Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

The RFP document shall be issued to the Bidders on any working day from 16.03.2024 to 17.05.2024 between 1030 hours (IST) to 1600 hours (IST). The BPC, on written request and against payment of the above mentioned fee by any Bidder shall promptly dispatch the RFP document to such Bidder by registered mail/ air mail. BPC shall, under no circumstances, be held responsible for late delivery or loss of documents so mailed.

10. **Receipt and opening of Bid:** The Bid must be uploaded online through the electronic bidding platform on or before 1100 hours (IST) on 20.05.2024. Technical Bid will be opened by the Bid Opening Committee on the same day at 1130 hours (IST) in the office of Central Electricity Authority, in the online presence of Bidders' representatives who wish to attend. If the Bid Deadline is a public holiday at the place of submission of Bid, it shall be opened on the next working day at the same time and venue. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause 3.2 to 3.4 shall be declared as "Qualified Bidders" and eligible for opening of Initial Offer.
11. The RFP document is not transferable. BPC reserves the right to reject all Bid and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.

## 12. Nodal person for enquiries and clarifications

All correspondence and clarification in respect of RFP document shall be addressed to:

Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001  
Email: pshariharan@recpdcl.in & tbc@recpdcl.in

**DISCLAIMER**

1. This Request for Proposal (RFP) document is not an agreement or offer by the BPC to the prospective Bidders or to any other party. The purpose of this RFP document is to provide interested parties with information to assist the formulation of their Bid. The RFP document is based on material and information available in public domain.
2. This RFP, along with its Annexure, is not transferable and the information contained therein are to be used only by the person to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project in accordance with this RFP, this RFP must be kept confidential.
3. While this RFP has been prepared in good faith, neither the BPC nor its employees or advisors/consultants make any representation or warranty expressed or implied as to the accuracy, reliability or completeness of the information contained in this RFP. The Bidders shall satisfy themselves, on receipt of the RFP document, that the RFP document is complete in all respects. Intimation of any discrepancy shall be given to this office immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of this RFP document on or before the date & time mentioned in this RFP, it shall be considered that the issued document, complete in all respects, has been received by the Bidders.

This bidding process is in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India under Section 63 of the Electricity Act, 2003. Revisions or amendments in these Bidding Guidelines may cause the BPC to modify, amend or supplement this RFP document, including the RFP Project Documents to be in conformance with the Bidding Guidelines.

4. This RFP document includes statements, which reflect various assumptions arrived at by BPC in order to give a reflection of current status in the RFP. These assumptions should not be entirely relied upon by Bidders in making their own assessments. This RFP document does not purport to contain all the information each Bidder may require and may not be appropriate for all persons. It is not possible for BPC to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP document. Certain Bidders may have a better knowledge of the Project than the others. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this RFP document and obtain independent advice from appropriate sources.
5. Neither BPC nor their employees or consultants make any representation or warranty as to the accuracy, reliability or completeness of the information in this RFP document.
6. Neither BPC, its employees nor its consultants will have any liability to any Bidder or any other person under the law of contract, tort, the principles of restitution or unjust enrichment or otherwise for any loss, expense or damage which may arise from or be incurred or suffered in connection with anything contained in this RFP document, any matter deemed to form part of this RFP document, the award of the Project, the information supplied by or on behalf of BPC or its employees, any consultants or otherwise arising in any way from the qualification process for the said Project.
7. By participating in the bidding process, each of the Bidder shall have acknowledged and accepted that it has not been induced to enter into such agreement by any representation or warranty, expressed or implied, or relied upon any such representation or warranty by or

on behalf of BPC or any person working in the bidding process.

8. BPC may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement this RFP document. Such updations, amendments or supplements, if any, will however be circulated to the Bidders not later than 15 days prior to the last date for submission of Bid.
9. Each Bidder unconditionally agrees, understands and accepts that the BPC reserves the rights to accept or reject any or all Bids without giving any reason. Neither the BPC nor its advisers shall entertain any claim of any nature, whatsoever, including without limitations, any claim seeking expenses in relation to the preparation of Bids.
10. This RFP may be withdrawn or cancelled by the BPC at any time without assigning any reasons thereof. BPC further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons whatsoever.

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**DEFINITIONS**

Any capitalized term, used but not defined in this RFP, shall have the meaning ascribed to such term in the RFP Project Documents, or the Bidding Guidelines, in that order. In absence of availability of definitions in the foregoing references, the capitalized terms shall be interpreted in accordance with the Electricity Act 2003, Grid Code or any other relevant electricity law, rule or regulation prevalent in India, as amended or re-enacted from time to time, in that order.

**The following terms are defined for use in this RFP:**

**"Acquisition Price"** shall have the same meaning as defined in the Share Purchase Agreement;

**"Affiliate"** shall mean a company that either directly or indirectly

- i. controls or
- ii. is controlled by or
- iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and **"control"** means ownership by one entity of at least twenty-six percent (26%) of the voting rights of the entity. As an illustration a chart is annexed hereto as Annexure – 12;

**"Bid"** shall mean Technical Bid and Financial Bid (Initial Offer and Final Offer) submitted by the Bidder, in response to this RFP, in accordance with the terms and conditions thereof;

**"Bidder"** shall mean either a single company (including its permitted successors and legal assigns) or a Consortium of companies (including its permitted successors and legal assigns) submitting a Bid in response to this RFP. Any reference to the Bidder includes Bidding Company, Bidding Consortium/ Consortium, Member in a Bidding Consortium and Lead Member of the Bidding Consortium jointly and severally, as the context may require;

**"Bidding Company"** shall refer to such single company (including its permitted successors and legal assigns) that has submitted a Bid for the Project;

**"Bidding Consortium/ Consortium"** shall refer to a group of companies (including their permitted successors and legal assigns) that has collectively submitted a Bid for the Project;

**"Bidding Guidelines"** shall mean the "Tariff Based Competitive-Bidding Guidelines for Transmission Service" and "Guidelines for Encouraging Competition in Development of Transmission Projects" issued by Government of India, Ministry of Power under Section – 63 of Electricity Act as amended from time to time;

**"Bid Bond"** shall mean the unconditional and irrevocable bank guarantee for Rupees Twenty Three Crore Twenty Lakhs Only (Rs. 23.20 Crore), to be submitted along with the Technical Bid by the Bidder under Clause 2.11 of this RFP, as per the format prescribed in Annexure 14;

**"Bid Deadline"** shall mean the last date and time for submission of online Bid in response to this RFP, specified in Clause 2.7.1;

**"Bid Process Coordinator or BPC"** shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

~~“Bid Security Declaration” shall mean the declaration to be submitted along with the Technical Bid by the Bidder in lieu of the Bid Bond, as per the format prescribed in Annexure 14A;~~

"CEA" shall mean the Central Electricity Authority constituted under Section - 70 of the Electricity Act;

“Commission” or “CERC” shall mean the Central Electricity Regulatory Commission of India constituted under Section-76 of The Electricity Act, 2003 and any successors and assigns;

“Conflict of Interest” A Bidder shall be considered to be in a Conflict of Interest with one or more Bidders in the same bidding process if they have a relationship with each other, directly or through a common company, that puts them in a position to have access to information about or influence the Bid of another Bidder.

Provided that if two or more bidders in the bidding process have formed a Joint Venture Company or Consortium to execute another project, the Bidders will not be considered to have Conflict of Interest;

"Commercial Operation Date (COD)" shall mean the date as per Article 6.2 of the Transmission Service Agreement;

“Consents, Clearances, Permits” shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and performance of Project including without any limitation on the construction, ownership, operation and maintenance of the transmission lines and/or sub-stations;

"Contract Performance Guarantee" shall have the meaning as per Clause 2.12 of this RFP;

"Contract Year" shall mean the period beginning on the Scheduled COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that:

- (i) the last Contract Year shall end on the last day of the term of the Transmission Service Agreement;

“Infrastructure sector” shall mean such sectors notified by Department of Economic Affairs in its Gazette Notification no. 13/1/2017-INF dated 14<sup>th</sup> November, 2017 and as amended from time to time;

"CTU/Central Transmission Utility" shall have same meaning as defined in the Electricity Act, 2003;

“Designated ISTS Customers” or “DICs” shall have the meaning as ascribed in Regulation 2(1) of Central Electricity Regulatory Commission (Sharing of inter-State Transmission Charges and Losses) Regulation 2020 and as amended or modified from time to time;

"Effective Date" shall have the meaning as ascribed thereto in the Transmission Service Agreement;

**"Element"** shall mean each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of the Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS which will be owned, operated and maintained by the concerned ISTS Licensee, and which may have a separate scheduled COD as per Schedule 2 of the Transmission Service Agreement and may have a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of the Transmission Service Agreement;

**"National Committee on Transmission"** shall mean the committee constituted by the Ministry of Power, Government of India in terms of the "Guidelines for Encouraging Competition in Development of Transmission Projects", as notified from time to time;

**"Final Offer"** shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform during the e-reverse bidding stage. In case, no Final Offer is received during the e-reverse bidding stage then the lowest "Initial Offer" shall be deemed to be the Final Offer;

**"Financial Bid"** shall mean the Initial Offer and Final Offer, containing the Bidder's Quoted Transmission Charges, as per the format at Annexure – 21 of this RFP;

**"Financially Evaluated Entity"** shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in Clause 2.1.3 hereof;

**"Government"** shall mean the Central Government;

**"Grid Code" / "IEGC" or "State Grid Code"** shall mean the Grid Code specified by the Central Commission under clause (h) of sub-section (1) of Section 79 of the Electricity Act and/or the State Grid Code as specified by the concerned State Commission referred under clause (h) of sub-section (1) of Section 86 of the Electricity Act as applicable;

**"Transmission Service Agreement" or "TSA"** shall mean the agreement entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis;

**"Initial Offer"** shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform along with the Technical Bid;

**"Inter State Generating Station" or "ISGS"** shall mean a Central / other generating station in which two or more states have shares and whose scheduling is to be coordinated by the Regional Load Despatch Center;

**"Inter-State Transmission System"** shall have same meaning as defined in the Electricity Act, 2003;

**"Lead Member of the Bidding Consortium" or "Lead Member"** shall mean a company who commits at least twenty-six percent (26%) equity stake in the Project, meets the technical requirement as per Clause 2.1.2 and so designated by other Member(s) in Bidding Consortium;

**"Letter of Intent" or "LoI"** shall mean the letter to be issued by the BPC to the Bidder, who has been identified as the selected bidder, for award of the Project to such Bidder;

**"Member in a Bidding Consortium/Member"** shall mean each company in the Bidding Consortium;

“**MOP**” shall mean the Ministry of Power, Government of India;

"**MOEF**" shall mean the Ministry of the Environment and Forests, Government of India;

“**Nodal Agency**” shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);

Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

"**Technical Bid**" shall mean the bid submitted online through the electronic bidding platform, containing the documents as listed out in Clause 2.5.2 of this RFP;

“**Parent Company**” shall mean an entity that holds at least twenty-six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

“**Qualification Requirements**” shall mean the qualification requirements as set forth in Section-2, Clause 2.1 of this RFP;

“**Quoted Transmission Charges**” shall mean the quoted single annual Transmission Charges submitted online through the electronic bidding platform by the Bidder as part of its Financial Bid as per the format in Annexure – 21 of this RFP;

“**RFP**” shall mean Request for Proposal document along with all schedules, formats, annexure and RFP Project Documents attached hereto, issued by BPC for tariff based competitive bidding process for selection of bidder who will acquire the TSP through e-reverse bidding to execute the Project, and shall include any modifications, amendments or alterations or clarifications thereto;

“**RFP Project Documents**” shall mean the following documents to be entered into in respect of the Project, by the parties to the respective agreements:

- a. Transmission Service Agreement (TSA),
- b. Share Purchase Agreement,
- c. Agreement(s) required, if any, under Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time and
- d. Any other agreement, as may be required;

"**Scheduled COD**" shall have the meaning as ascribed hereto in Clause 2.6 of this RFP;

“**Statutory Auditor**” shall mean the auditor appointed under the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) or under the provisions of any other applicable governing law;

"**Share Purchase Agreement**" shall mean the agreement amongst REC Power Development and Consultancy Limited, .....[**Insert the name of the SPV**] and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the .....[**Insert the name of the SPV**] for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

**"Successful Bidder"** or **"Selected Bidder"** shall mean the Bidder selected pursuant to this RFP to acquire one hundred percent (100%) equity shares of .....[Insert the name of the SPV], along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the Transmission Service Agreement and other RFP Project Documents;

**"Survey Report"** shall mean the report containing initial information regarding the Project and other details provided as per the provisions of Clause 1.6.2.1.1 of this RFP;

**"Technically Evaluated Entity"** shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in Clause 2.1.2 hereof;

**"Transmission Charges"** shall mean the Final Offer quoted by Selected Bidder and adopted by the Commission, and as computed in terms of the provisions of Schedule 4 of the TSA, payable to the ISTS Licensee by the Designated ISTS Customers, and collected / disbursed by the CTU, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time;

**"Transmission License"** shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act, 2003;

**"Transmission Service Provider" or "TSP"** shall mean .....[Insert the name of the SPV] which has executed the Transmission Service Agreement and which shall be acquired by the Selected Bidder;

**"Ultimate Parent Company"** shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and/or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity.

**SECTION – 1**

**INTRODUCTION**

## 1. INTRODUCTION

- 1.1 Ministry of Power, Government of India vide its notification no 943 [F. No. 15/3/2018-Trans-Part (1)] dated 01.03.2024 has notified REC Power Development and Consultancy Limited to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish Inter-State transmission system under “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**” through tariff based competitive bidding process.

The BPC hereby invites Bids from all prospective Bidders in accordance with this Request for Proposal (RFP) to select prospective Transmission Service Provider (TSP) in accordance with the “Tariff Based Competitive-Bidding Guidelines for Transmission Service” and “Guidelines for Encouraging Competition in Development of Transmission Projects” issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act. The BPC shall select the Bidder having the prescribed technical and financial capability to become TSP and be responsible for establishing the Project in the state(s) of Odisha. The TSP will make the Project available against payment of Transmission Charges, as adopted by the Commission, payable to the TSP, as per Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

- 1.2 The TSP will be required to establish the following Inter State Transmission System under **Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)** (hereinafter referred to as ‘Project’) on build, own, operate and transfer basis, and to provide transmission service.

Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	<p>Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha</p> <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICTs: 2 nos. (7x500MVA single phase units including one spare)</li> <li>• 765 kV ICT bays: 2 nos.</li> <li>• 400 kV ICT bays: 2 nos.</li> <li>• 765 kV, 330 MVAr Bus reactor: 2 nos. (7x110 MVAr single phase units including one spare unit for both bus and line reactors)</li> <li>• 765 kV Bus reactor bays: 2 nos.</li> <li>• 420 kV, 125 MVAr Bus reactor: 2 nos.</li> <li>• 400 kV Bus reactor bays: 2 nos.</li> <li>• 765 kV line bays: 2 nos.</li> </ul> <p><i>[for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAr switchable line reactor at Gopalpur end in both circuits]</i></p>	30.06.2026

	<ul style="list-style-type: none"> <li>• 400 kV line bays: 2 nos. <i>[for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</i></li> <li>• 765 kV, 330 MVA (3x110 MVA single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) <i>[at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765 kV D/c line]</i>: 2 nos.</li> </ul> <p><b>Additional space for future expansion:</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV, 4x1500 MVA ICTs (12x500MVA single phase units) along with associated ICT bays at both voltage levels</li> <li>• 400/220 kV, 4x500 MVA ICTs along with associated ICT bays at both voltage levels</li> <li>• 765 kV, 2x330 MVA (6x110 MVA single phase units) bus reactor along with associated bays</li> <li>• 420 kV, 2x125 MVA bus reactor along with associated bays</li> <li>• 8 nos. of 765 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 10 nos. of 400 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 12 nos. of 220 kV line bays for future lines</li> <li>• 765 kV bus sectionaliser bay: 1 set</li> <li>• 400 kV bus sectionaliser bay: 1 set</li> <li>• 220 kV bus sectionaliser bay :1 set</li> <li>• 220 kV bus coupler bay: 2 no.</li> </ul>	
2.	Angul – Gopalpur 765 kV D/c line	
3.	<p>Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS</p> <ul style="list-style-type: none"> <li>• 765 kV AIS line bays (along with space for future switchable line reactor): 2 nos. <i>[for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line] including bus extension in GIS of about 3000 m</i></li> </ul>	
4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line <sup>@</sup>	
5.	<p>Extension at 400 kV level at <sup>#</sup>Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>• 400 kV GIS line bays: 2 nos. <i>[for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line] + <sup>#</sup>2 nos. for diameter completion</i></li> </ul>	

**Note:**

- i. @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.
- ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- iii. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- iv. POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.

## 1.3 Project Description

In view of upcoming Green Hydrogen and Green Ammonia plants/industries in Gopalpur, Odisha area with cumulative demand of about 3 GW by 2025-26 and Gopalpur's locational advantage, Govt. of Odisha proposed for establishment of a new 765 kV S/s in the area under ISTS. It was also mentioned that there is a requirement of ISTS corridor to supply RE power from outside Odisha to such industries, to meet their Renewable Purchase Obligation (RPO). Thus, keeping in view critical nature of large industrial demand and quantum of power requirement it was essential that Gopalpur S/s is feed reliably from ISTS and with high capacity transmission lines.

As Gopalpur is in coastal area and within 60 km from coastline, Gopalpur (ISTS) S/s is planned to be implemented in GIS in line with the recommendation of Report of Task Force on Cyclone Resilient Robust Electricity Transmission and Distribution Infrastructure in Coastal Area published by CEA in May 2021 for construction of new substations up to 60 km from the coastline.

After exploring various alternatives for establishment of Gopalpur 765 kV ISTS S/s, the present scheme for establishment of Gopalpur 765/400 kV new substation along with Angul – Gopalpur 765 kV D/c line and Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line was approved in the 18th CMETS-ER held on 27th Apr 2023. Further, the scheme has also been recommended by ERPC in its 50th meeting held on 11-08-2023. Thereafter, NCT in its 16th meeting held on 30-11-2023 has also recommended the implementation of the subject ISTS scheme.

## 1.4 Transmission Grid Map

Transmission Grid Map indicating the location of the Project is enclosed as Annexure 18 of this RFP for information and reference of the Bidders.

- 1.5 The objective of the bidding process is to select a Successful Bidder pursuant to this RFP, who shall acquire one hundred percent (100%) of the equity shares of .....**[Insert the name of the SPV]** along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement, at the Acquisition Price to be intimated by the BPC, twenty (20) days prior to the Bid Deadline.

The .....**[Insert the name of the SPV]**, of which one hundred percent (100%) equity shares will be acquired by the Selected Bidder, shall be responsible as the TSP, for ensuring that it undertakes ownership, financing, development, design, engineering, procurement, construction, commissioning, operation and maintenance of the Project, and to provide Transmission Service as per the terms of the RFP Project Documents.

The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.

## 1.6 **Brief Scope of Work**

### 1.6.1 **Scope of Transmission Service Provider**

The TSP's scope of work for the Project shall comprise, but not necessarily be limited to the following:

- 1.6.1.1 Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/ road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning. Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield Intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.
- 1.6.1.2 The TSP shall ensure that design, construction and testing of all equipment, facilities, components and systems of the Project shall be in accordance with Transmission Service Agreement and applicable Rules/ Regulations, Orders and Guidelines issued by the Central Government.
- 1.6.1.3 The TSP shall ensure timely completion of entire scope of Project in all respects and its operation and maintenance, as shall be specified in the RFP documents.
- 1.6.1.4 The TSP shall seek Transmission License from the Commission, as per the provisions of the Electricity Act and regulations made thereunder.
- 1.6.1.5 The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of .....**[Insert the name of the SPV]**. The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of

receipt of application (complete in all aspects).

## 1.6.2 Scope of Bid Process Coordinator (BPC)

BPC's scope of work is briefly outlined hereunder:

1.6.2.1 The BPC has initiated development of the Project and shall be responsible for the tasks in this regard as specified hereunder:

1. Provide to the Bidders a Survey Report for the Project at least forty-five (45) days prior to the Bid Deadline. The Survey Report shall include the suggested route with approximate route length, type of terrain likely to be encountered and its likely implication in terms of Right of Way (ROW), statutory clearances, location of substations or converter stations and land area to be acquired for the substation or converter station.
2. To obtain approval for laying of overhead transmission lines under Section 68 of Electricity Act, from the Government at least twenty (20) days prior to Bid Deadline.
3. To initiate acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations, if required.
4. To initiate process of seeking forest clearance, if required
5. The BPC shall intimate to the Bidders, the Acquisition Price payable by the Selected Bidder to the REC Power Development and Consultancy Limited for the acquisition of one hundred percent (100%) of the equity shareholding of .....**[Insert the name of the SPV]**, along with all its related assets and liabilities at least twenty (20) days prior to the Bid Deadline.
6. The BPC shall ensure issuance of all finalized RFP Project Documents, at least fifteen (15) days prior to the Bid Deadline.

Provided that for any delay in meeting the above obligations of the BPC within the specified time period above, the Bid Deadline as per Clause 2.7.1 shall be extended on a day for day basis.

1.6.2.2 The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that it may take further actions to obtain Consents, Clearances and Permits.

1.7 All costs (including direct and indirect) incurred by the BPC/ project specific SPV in connection with the activities concerning the Project shall be recovered from the TSP, which shall be included in the Acquisition Price.

1.8 The Project is required to be completed progressively in accordance with the schedule prescribed in this RFP.

1.9 A company under the Companies Act, 2013 by the name .....**[Insert the name of the SPV]** has been incorporated to initiate the activities for execution of the Project. The said company shall be acquired by the successful Bidder as per terms and conditions as may be prescribed in RFP.

- 1.10 The Ministry of Power and the appropriate state government(s) shall provide their support to the TSP, on best endeavor basis, in enabling the TSP to develop the Project.
- 1.11 All Bidders are required to submit their Bid in accordance with the instructions set forth in this RFP.
- 1.12 Once the Successful Bidder is selected, the details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project, shall be handed over to the Successful Bidder on as is where basis, so that it may take further actions to obtain all necessary Consents, Clearances and Permits and the TSP shall not be entitled for any extensions in the Scheduled COD of the Project except as provided for in the TSA.
- 1.13 The assets of the Project shall be made available on a commercial basis as per the terms and conditions of the Transmission Service Agreement and Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

**SECTION - 2**

**INFORMATION AND INSTRUCTIONS FOR BIDDERS**

### 2. INFORMATION AND INSTRUCTIONS FOR BIDDERS

#### 2.1 Qualification Requirements

- 2.1.1 The Bidder should be a company duly incorporated under the relevant laws (Bidding Company) or a Consortium of companies (Bidding Consortium) with one of the companies acting as the Lead Member of the Bidding Consortium. The Bidder shall be selected on meeting the Qualification Requirements specified in Section 2 of this RFP, as demonstrated by the Bidder's Technical Bid and the lowest Quoted Transmission Charges discovered from Final Offers quoted during the e-reverse bidding. A Bidding Consortium can participate in the bidding process for the Project if any Member of the Consortium has purchased the RFP document for such Project. Bidder who agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard, shall be eligible hereunder. Further, it is clarified that Procuring Entity as defined in orders shall deemed to have included Selected Bidder and/ or TSP.

Besides, Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020, as amended from time to time, have issued directions regarding public procurement from a bidder of a country, which shares land border with India are also applicable.

#### 2.1.2 Technical requirement to be met by the Bidding Company or Lead Member of Bidding Consortium

The Bidder must fulfill any one of the following technical requirements:

- (i) Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than **Rs.1,160 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than **Rs. 232 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, capital expenditure incurred on projects that have been commissioned/completed at least seven (7) days prior to Bid Deadline shall be considered. The capital expenditure discussed above shall be as capitalized and reflected in the audited books of accounts of the Technically Evaluated Entity. In case a clearly identifiable part of a project has been put into commercial operation, the capital expenditure on such part of the project shall be considered. The Technically Evaluated Entity must have either executed such projects itself or must have held directly or indirectly at least twenty six percent (26%) of the shareholding in the company that has executed the project(s) from the date of financial closure of the project(s) till the time of commissioning/completion of such project(s).

OR

- (ii) Experience in construction of project in infrastructure sector: The Technically Evaluated Entity should have received aggregate payments not less than **Rs.1,160 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5(five) financial years. However, the payment received from each project shall not be less than **Rs. 232 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1).

For this purpose, payments received on projects that have been commissioned/ completed at least seven (7) days prior to Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity. For the avoidance of doubt, construction works shall not include cost of land, supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project. Further, in cases where different individual contracts are signed between same entities for the same project, the cumulative payments received under such individual contracts shall be considered for meeting the qualification requirement.

The Technically Evaluated Entity may be the Bidding Company or the Lead Member of a Consortium or an Affiliate or Parent of such Bidding Company or the Lead Member, as the case may be.

Bidders shall furnish documentary evidence duly certified by authorized signatory of the Bidder who has been issued Power of Attorney in support of their technical capability as defined in Clause 2.1.2 of this RFP.

### 2.1.3 Financial requirement to be met by the Bidding Company/Bidding Consortium

2.1.3.1 The Bidder must fulfill following financial requirements:

#### A. Networth:

Networth should be not less than **Rs. 464 Crore** or equivalent USD (calculated as per provisions in Clause 3.4.1) computed as the Networth based on unconsolidated audited annual accounts (refer to Note below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years should not be negative.

Note: Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Technical Bid. Bidders shall furnish prescribed Annexure 7 (A) duly certified by authorized signatory of the Bidder who has been issued Power of Attorney and the Statutory Auditor and separate computation sheet for Networth duly certified by Statutory Auditor in support of their financial capability as defined in Clause 2.1.3 of this RFP.

2.1.3.2 The Networth shall be computed in the following manner by the Bidder:

#### A. Networth

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=	Equity share capital
Add:	Reserves
Subtract:	Revaluation Reserves
Subtract:	Intangible Assets
Subtract:	Miscellaneous expenditures to the extent not written off and carry forward losses

2.1.3.3 If the Technical Bid is submitted by a Bidding Consortium the financial requirement shall be met individually and collectively by all the Members in the Bidding Consortium. The financial requirement to be met by each Member of the Bidding Consortium shall be computed in proportion to the equity commitment made by each of them for investment in the Project.

2.1.4 The Bidder may seek qualification on the basis of technical and financial capability of its Parent and/ or its Affiliate(s) for the purpose of meeting the Qualification Requirements. However, in the case of the Bidder being a Consortium, the Lead Member has to meet the technical requirement on its own or by seeking the technical capability of its Parent and/or its Affiliate(s). Authorization for use of such technical or financial capability shall have to be provided from its Parent and/or Affiliate(s) as per Annexure 9. The technical and financial capability of a particular company/ particular project, including its Parents and/or Affiliates, shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium/ Bidding Company. However, development and construction experience of a particular project may be used by more than one company.

The determination of the relationship of Parent or Affiliate with the Bidding Company or with the Member of the Bidding Consortium, including the Lead Member, shall be on the date at the most seven (7) days prior to the last date of submission of the Bid. Documentary evidence to establish such relationship shall be furnished by the Bidder along with the Technical Bid.

If the Technically Evaluated Entity and/or Financially Evaluated Entity is an entity other than the Bidding Company or a Member in a Bidding Consortium, the Bidding Company or Member relying on such Technically Evaluated Entity and/or Financially Evaluated Entity will have to submit a legally binding undertaking supported by a board resolution from the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, that all the equity investment obligations of the Bidding Company or the Member of the Consortium shall be deemed to be equity investment obligations of the Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, and in the event of any default the same shall be met by such evaluated entity or by or the Ultimate Parent Company. The Bidding Company or the Consortium Member shall have to provide information and documents relating to its relationship with such Technically Evaluated Entity and/or Financially Evaluated Entity including details about the equity shareholding between them as per Annexure 7(C).

2.1.5 A Bidder shall submit only one Bid in the same bidding process, either individually as Bidding Company or as a Member of a Bidding Consortium (including the Lead Member). It is further clarified that any of the Parent/ Affiliate/Ultimate Parent of the Bidder/ Member in a Bidding Consortium shall not separately participate directly or indirectly in the same bidding process. Further, if any Bidder is having a Conflict of Interest with other Bidders participating in the same bidding process, the Bids of all such Bidders shall be rejected.

- 2.1.6 Notwithstanding anything stated above, BPC reserves the right to verify the authenticity of the documents submitted for meeting the Qualification Requirements and request for any additional information and documents. BPC reserves the right at its sole discretion to contact the Bidder's bank and project references and verify the Bidder's information and documents for the purpose of bid evaluation.
- 2.1.7 The Qualified Bidder(s) will be required to continue to maintain compliance with the Qualification Requirements throughout the bidding process and till execution of the Transmission Service Agreement. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the execution of the Transmission Service Agreement. Failure to comply with the aforesaid provisions shall make the Bid liable for rejection at any stage.
- 2.1.8 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project. Failure to comply with the aforesaid provisions shall be dealt as per provisions of Transmission Service Agreement.
- 2.1.9 On the Bid Deadline, for the Bidder to be eligible to participate in the bidding process:
- a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel should not have been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc or the United Nations or any of its agencies; or
  - b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors should not have been convicted of any offence in India or abroad.

In case any investigation is pending against the Bidder, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the Bidder /Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the investigation has been launched and other relevant information should be disclosed while submitting the Bid.

The Bidders shall confirm the above through a notarized affidavit as per Annexure 22.

## **2.2 Submission of Bid by the Bidder**

- 2.2.1 The information and documents in Technical Bid will be submitted by the Bidder as per

the formats specified in Section – 4 (Formats for RFP) of this document

2.2.2 Strict adherence to the formats wherever specified, is required. Wherever, information has been sought in specified formats, the Bidder shall refrain from referring to brochures/ pamphlets. Non-adherence to formats and/ or submission of incomplete information may be a ground for declaring the Technical Bid as non-responsive. Each format has to be duly signed and stamped by the authorized signatory of Bidder.

2.2.3 The Technical Bid shall contain unconsolidated/consolidated audited annual accounts (consisting of unabridged Balance Sheet, Profit and Loss Account, profit appropriation account, Auditors Report, etc.), as the case may be, of Bidding Company or each Member in Consortium including Lead Member or the Financially Evaluated Entity for the last three (3) financial years immediately preceding the last date for submission of Bid for the purpose of calculation of Networth.

In case the annual accounts for the financial year immediately preceding the Bid Deadline is not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In such a case, the Bidder shall provide the audited annual accounts for the three (3) financial years preceding the financial year as above for which the annual accounts have not been audited.

2.2.4 Bid submitted by a Bidding Consortium:

2.2.4.1 The Technical Bid shall contain a legally enforceable Consortium Agreement entered amongst the Members in the Bidding Consortium, designating one of the Members to be the Lead Member (as per Annexure 6). There shall be only one Lead Member which shall continue to hold twenty six percent (26%) equity in the TSP and cannot be changed upto one (1) year from the Commercial Operation Date (COD) of the Project. Each Member in Bidding Consortium shall duly sign the Consortium Agreement making it liable for raising the required funds for its respective equity investment commitment as specified in the Consortium Agreement. In absence of Consortium Agreement, the Technical Bid will not be considered for evaluation and will be rejected.

Provided that the Lead Member of the Bidding Consortium will be required to be liable to the extent of 100% of the total proposed commitment of equity investment of the Bidding Consortium i.e. for both its own equity contribution as well as the equity contribution of other Members.

Provided further that the Consortium Agreement shall not be amended without the explicit approval of the BPC.

1. The Lead Member of the Consortium will be the single point of contact for the purposes of the bid process before the date of signing of Share Purchase Agreement. Settlement of any dispute amongst the Consortium Members shall not be the responsibility of the BPC and/or the CTU and the BPC and/or the CTU shall not bear any liability whatsoever on this account.

2.2.4.2 The Lead Member should designate at the most two persons to represent the Consortium in its dealings with the BPC. The person(s) designated by the Lead Member should be authorized through a Power of Attorney (as per Annexure 3) to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical Bid on behalf of the Consortium, etc. The Bidding Consortium shall provide board resolutions from their respective Boards for committing their respective portion

of equity requirement for the Project. Additionally, the Lead member shall provide a Board resolution committing to make good any shortfall in the equity for the project, in case of any member not meeting its equity commitment.

- 2.2.4.3 The Technical Bid should also contain signed Letter of Consent (as per Annexure 2) from each Member in Consortium confirming that the entire Technical and Financial Bids has been reviewed and each element of the Technical and Financial Bids is agreed to by them including investment commitment for the Project.

In addition, the Technical Bid should also contain Board Resolution from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats.

## 2.2.5 Bid submitted by a Bidding Company

- 2.2.5.1 The Bidding Company should designate at the most two persons to represent the Bidding Company in its dealings with BPC. The person(s) should be authorized to perform all tasks including, but not limited to providing information, responding to enquiries, signing of Technical and Financial Bids etc. The Bidding Company should submit, along with Technical Bid, a Power of Attorney (as per Annexure 3), authorizing the signatory of the Technical and Financial Bids. The Bidding Company shall submit the board resolution committing 100% of equity requirement for the Project, in the Technical Bid.

## 2.3 **Clarifications & Pre-Bid Meeting**

- 2.3.1 The Bidders may seek clarifications or suggest amendments to the RFP by sending an email to the BPC at the email id indicated in Clause 2.14 within the date and time mentioned in Clause 2.7.2. For any such clarifications or amendments, the Bidders should adhere to the format as per Annexure – 19.
- 2.3.2 Only those Bidders or their authorized representatives, who have purchased the RFP documents are invited to attend the pre-bid meeting(s), which will take place on date as specified in Clause 2.7.2, or any such other date as notified by the BPC. The time and address of this would be intimated later.
- 2.3.3 The purpose of the pre-bid meeting will be to clarify any issues regarding the RFP, including in particular, issues raised in writing by the Bidders as per the provisions of Clause 2.3.1.
- 2.3.4 Non-attendance at the pre-bid meeting will not be a cause for disqualification of a Bidder.
- 2.3.5 The BPC is not under any obligation to entertain / respond to suggestions made or to incorporate modifications sought for.
- 2.3.6 In case Bidders need any further clarifications not involving any amendments in respect of final RFP, they should ensure that request for such clarification is submitted through e-mail to the BPC at least ten (10) days prior to the Bid Deadline as mentioned in Clause 2.7.1. The BPC may issue clarifications only, as per its sole discretion, which is considered reasonable by it. Any such clarification issued shall be sent to all the Bidders to whom the RFP has been issued. Clarifications sought after this date shall not be

considered in any manner and shall be deemed not to have been received. There shall be no extension in Bid Deadline on account of clarifications sought as per this clause 2.3.6.

## **2.4 Amendment of RFP**

- 2.4.1. At any time before the timeline mentioned in Clause 2.7.1, the BPC may, for any reason, whether at its own initiative or in response to clarifications requested by any Bidder modify or amend the RFP, including the timelines specified in Clause 2.7.2 by issuance of addendum/modification/errata and/or revised document. Such document shall be notified in writing through a letter or fax or e-mail to all the entities to which the RFP has been issued and shall be binding on them. In order to ensure that Bidders have reasonable time to take the modification into account in preparing their Bid, or for any other reasons, BPC may at its discretion, extend the due date for submission of Bid. Late receipt of any addendum/modification/errata and/or revised document will not relieve the Bidder from being bound by that modification.
- 2.4.2. All modifications shall become part of the terms and conditions of this RFP. No interpretation, revision or communication regarding this RFP is valid, unless made in writing.
- 2.4.3. The amendment to the RFP shall be notified to all the Bidders through the electronic bidding platform and shall be binding on them.

## **2.5 The Bidding Process**

The entire bidding process shall be conducted on electronic bidding platform created by MSTC Limited. The Bid shall comprise of the Technical Bid and the Financial Bid. The Bidders shall submit the Technical Bid & Financial Bid through the electronic bidding platform. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. There shall be no physical submission of the Financial Bid.

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve responsiveness check, technical and financial evaluation of the details/documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clause 3.2 to 3.4 shall be declared as “Qualified Bidders” and eligible for opening of Initial Offer. The BPC shall also upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding portal along with the reasons for non-qualification. Also, the Financial Bids of Qualified Bidders shall be opened after at least 24 hours from the date of declaration of the Technically Qualified Bidders.

The Financial Bid will comprise of two rounds. In the first round the Initial Offer (submitted online along with the Technical Bids) of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP. The Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction stage and submit their Final Offer.

Provided however, in case only one Bidder remains after the evaluation of Technical Bid as per Clause 3.2, 3.3 and Clause 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of qualified Technical Bids is between two and four, then each of the qualified Bidder shall be considered as “Qualified Bidders”.

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all the Qualified Bidders who share the same rank till 50% of the rank (with any fraction rounded off to higher integer) determined above, shall qualify to participate in the electronic e-reverse auction stage. In case 50% of the ranks (with any fraction rounded off to higher integer) is having less than 4 (four) Bidders and the rank of the fourth (4<sup>th</sup>) Bidder is shared by more than one (1) Bidder, then all such Bidders who share the rank of the fourth (4<sup>th</sup>) Bidder shall qualify to participate in the electronic reverse auction.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.

The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The technical details with respect to access to such electronic platform are provided in Annexure-A (Technical Details with respect to electronic reverse auction).

In case of any technical clarification regarding access to the electronic reverse auction platform or conduct of the auction process, the Bidders may contact MSTC Limited directly at the address provided in Annexure-A.

## **2.5.1 Bid Formats**

The Bids in response to this RFP will be submitted online through the electronic bidding platform by the Bidders in the manner provided in Clause 2.9. The Bids shall comprise of the following:

## **2.5.2 Technical Bid comprising of:**

1. Covering Letter (as per prescribed format enclosed as **Annexure 1**);
2. Letter of Consent from Consortium Members in **Annexure 2**;
3. Power of attorney issued by the Bidding Company or the Lead Member of the Consortium, as the case may be, in favour of the person signing the Bid, in the format attached hereto as **Annexure 3**.

Additionally, in case of a Bidding Consortium, the power of attorney in favour of the Lead Member issued by the other Members of the Consortium shall be provided in as per format attached hereto as **Annexure 4**. Further, the Lead Member shall furnish Board resolution(s) from each Member of the Consortium other than the Lead Member in favour of their respective authorized representatives for executing the POA and signing of the requisite formats.

Provided that in the event the Bidding Company or the Lead Member of the Consortium or any Member of the Bidding Consortium, as the case may be, is a foreign entity, it may issue Board resolutions in place of power of attorney for the purpose of fulfilling these requirements.

4. Bidder's composition and ownership structure in **Annexure 5**
5. Format for Authorization submitted in Non-Judicial stamp paper duly notarized as per **Annexure 5** from the Bidding Company / each Member of the Consortium authorizing the BPC to seek reference from their respective bankers & others.
6. In case of Bidding Consortium, the Consortium Agreement shall be provided in as per format attached hereto as **Annexure 6**
7. Format of Qualification Requirement (**Annexures 7A, 7B, 7C and 7D**)
8. Bidders Undertakings and details of equity investment in Project (as per prescribed formats 1 and 2 of **Annexure 8**);
9. Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium (**Annexure 9**).
10. Undertaking from the Technically / Financially Evaluated Entity(ies) **OR** Undertaking from the Ultimate Parent Company, for total equity investment commitment, in the prescribed format in **Annexure – 10**, to meet any shortfall in the equity investment by the Selected Bidder in the .....**[Insert the name of the SPV]**.

**Note:** The effective Equity holding of the Selected Bidder in the .....**[Insert the name of the SPV]**, as specified in Clause 2.5.8.1 shall be computed as per the provisions of Clause 2.5.8.3 of this RFP.

Provided further, in case the Bidding Company or Member of a Consortium, (as the case may be) holds at least twenty six percent (26%) equity in such Technically/ Financially Evaluated Entities, whose credentials have been considered for the purpose of meeting the Qualification Requirements as per the RFP, no such Undertaking shall be required from the Technically / Financially Evaluated Entities.

11. Board resolutions, as per prescribed formats enclosed as Annexure – 11, duly certified by the Company Secretary or any Whole-time Director / Manager (supported by a specific Board Resolution), as applicable to the Bidder and mentioned hereunder,
  - (a) Board resolution from the Bidding Company (and any investing Affiliate / Parent Company / Ultimate Parent Company) committing one hundred

percent (100%) in aggregate of the equity requirement for the Project - Format-1 of **Annexure 11**;

- (b) Board resolutions from each of the Consortium Member of the Bidding Consortium (and any investing Affiliate / Parent Company / Ultimate Parent Company) together committing to one hundred percent (100%) in aggregate of equity requirement for the Project, in case Bidder is a Bidding Consortium - Format-1 of **Annexure 11**;
- (c) In either of the cases as in (a) or (b) above as applicable, Board resolutions as per Format 2 of **Annexure 11** for total equity investment commitment from the Technically / Financially Evaluated Entity(ies) whose technical / financial credentials had been considered for the purpose of meeting Qualification Requirements as per the RFP

## OR

Board resolutions as per Format 2 of **Annexure 11** from the Parent Company or the Ultimate Parent Company for total equity investment commitment.

Provided that such Board resolutions, as specified in (a) or (b) or (c) above, in case of a foreign entity, shall be supported by an unqualified opinion issued by an independent legal counsel practicing in the relevant country, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.

For clarity sake, illustrations identifying which Board Resolution shall be applicable in typical cases are provided in **Annexure 11A**.

- 12. Format for Illustration of Affiliates at the most seven (7) days prior to Bid Deadline, duly certified by Company Secretary and supported by documentary evidence (**Annexure 12**).

Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with **Annexure 12**.

- 13. Disclosure as per **Annexure 13** regarding participation of any related companies in this bidding process.
- 14. Bid Bond, as per the prescribed format at **Annexure 14** ~~or Bid Security Declaration as per prescribed format at **Annexure-14A** (as applicable)~~;
- 15. Checklist for Technical Bid submission requirements as per **Annexure 16**.
- 16. Last three (3) financial years' unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity
- 17. Unconsolidated audited annual accounts of both the TEE and the Bidding Company/Lead member, as applicable, for the financial years in which financial

closure was achieved and the financial year in which the said project was completed / commissioned.

18. Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.
19. For each project listed in Annexure 7(D), certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by duly signed by authorized signatory.

In addition to the online submission of above formats through the electronic platform, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI. In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2.

### **2.5.3 Financial Bid (as per prescribed format at Annexure-21)**

Financial Bid shall comprise of: (i) the Initial Offer; and (ii) the Final Offer. The Initial Offer is required to be submitted along with the Technical Bid. It is hereby clarified that the Financial Bid will comprise of two rounds. In the first round the Initial Offer of the responsive bids would be opened and Quoted Transmission Charges of Initial Offer shall be ranked on the basis of ascending order for determination of the Qualified Bidders as provided in Section-III of RFP.

In accordance with clause 2.5 of this RFP, the qualified Bidders shall be eligible to participate in the electronic reverse auction and submit their Final Offer.

The applicable ceiling for electronic reverse bidding shall be the lowest Quoted Transmission Charges discovered from the Initial Offer received from the Qualified Bidders. The Qualified Bidders shall be permitted to place their Final Offer on the electronic bidding platform, which is lower than zero point two five (0.25) % of the prevailing lowest Quoted Transmission Charges.

The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by 30 minutes from the last received bid time, if the bid is received during the last 30 minutes of the scheduled or extended bid time. Subsequently, it will be extended again by 30 minutes from the latest received bid time.

The Bidders shall inter-alia take into account the following while preparing and submitting the Initial Offer and Final Offer of Financial Bid :-

- a. The Bidders shall quote single annual Quoted Transmission Charges for a period of 35 years commencing from the Scheduled COD of the Project.
- b. The Quoted Transmission Charges as per the format at Annexure-21 shall be inclusive of all charges and no exclusions shall be allowed. The Bidders shall take into account all costs including capital and operating, statutory taxes, duties,

levies. Availability of the inputs necessary for operation and maintenance of the Project should be ensured by the TSP at the Project site and all costs involved in procuring the inputs (including statutory taxes, duties, levies thereof) at the Project site must be included in the Quoted Transmission Charges.

c. Annexure 21 duly digitally signed by authorized signatory.

2.5.4 Wherever information has been sought in specified formats, the Bidders shall fill in the details as per the prescribed formats and shall refrain from referring to any other document for providing any information required in the prescribed format.

## **2.5.5 Transmission Charges**

2.5.5.1. The Transmission Charges shall be specified in the Transmission Service Agreement and shall be payable to the TSP in Indian Rupees only. The Bidders shall quote single Transmission Charges as per the format at Annexure – 21.

2.5.5.2. The Transmission Charges of the Selected Bidder shall be inserted in Schedule 5 of the Transmission Service Agreement.

## **2.5.6 Bidders may note that:**

- a) All the information and documents in Bid shall be submitted in English language only.
- b) Bidders shall mention the name, designation, telephone number, fax number, email address of the authorized signatory and complete address of the Bidder in the covering letter.
- c) All pages of the Bid submitted shall be initialed and stamped by the authorized signatory on behalf of the Bidder.
- d) A Bidder shall submit only one Bid in the same bidding process, either individually as Bidding Company or as a Member of a Bidding Consortium.
- e) The technical and financial capability of a particular company / particular project (Parent and/ or Affiliate) shall not be used directly or indirectly by more than one Bidder/ Member of a Bidding Consortium including Lead Member / Bidding Company.
- f) This Request for Proposal (RFP) document is not transferable. The RFP document and the information contained therein is for the use only by the Bidder to whom it is issued. It may not be copied or distributed by the recipient to third parties (other than in confidence to the recipient's professional advisors). In the event that the recipient does not continue with its involvement in the Project, this RFP document must be kept confidential.
- g) Though adequate care has been taken while preparing this RFP document, the Bidder shall satisfy himself that the document is complete in all respects. Intimation of any discrepancy shall be given to the BPC immediately. If no intimation is received from any Bidder within ten (10) days from the date of issue of RFP document, it shall be considered that the RFP document is complete in all respects and has been received by the Bidder.

- h) Bids submitted by the Bidder and opened on scheduled date and time as stipulated in this RFP shall become the property of the BPC and BPC shall have no obligation to return the same to the Bidder.
- i) If any Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in its Bid, in any manner whatsoever, the BPC reserves the right to reject such Bid or cancel the Letter of Intent, if issued. If such event is discovered after the Effective Date, consequences specified in Transmission Service Agreement shall apply.
- j) If for any reason the Bid of the Bidder with the lowest Quoted Transmission Charges is not selected or Letter of Intent issued to such Selected Bidder is cancelled or such Bidder withdraws its Bids, the BPC may :-
- i. Invite all the remaining Bidders to revalidate or extend their respective Bid Security, as necessary, and match the Bid of the Bidder with the lowest Quoted Transmission Charges (the “second round of bidding”) with following cases:
    - If in the second round of bidding, only one Bidder matches the Bid of the Bidder with lowest Quoted Transmission Charges, it shall be the Selected Bidder.
    - If two or more Bidders match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, then the Bidder whose Quoted Transmission Charges was lower as compared to other Bidder(s) in the first round of bidding shall be the Selected Bidder. For example, if the third and fifth lowest Bidders in the first round of bidding offer to match the Bid of the Bidder with lowest Quoted Transmission Charges in the second round of bidding, the said third lowest Bidder shall be the Successful Bidder.
    - In the event that no Bidder offers to match the Bid of the Bidder with the lowest Quoted Transmission Charges in the second round of bidding, the BPC may, in its discretion, invite fresh Bids (the “third round of bidding”) from all Bidders except the Bidder which quoted the lowest Quoted Transmission Charges in the first round of bidding. In case the Bidders are invited for the third round of bidding to revalidate or extend their Bid Security, as necessary, and offer fresh Bids, they shall be eligible for submission of fresh Bids provided, however, that in such third round of bidding only such Bids shall be eligible for consideration which are lower than the Quoted Transmission Charges of the second lowest Bidder in the first round of bidding; or;
  - ii. Annul the bid process; or
  - iii. Take any such measure as may be deemed fit in the sole discretion of the BPC<sup>1</sup>
- k) The BPC may, at its sole discretion, ask for additional information / document and/or seek clarifications from a Bidder after the Bid Deadline, inter alia, for the purposes of removal of inconsistencies or infirmities in its Bid. However, no change in the substance of the Quoted Transmission Charges shall be sought or permitted by the

<sup>1</sup> BPC shall record reasons for the same.

BPC.

- l) Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation of the Bidder to furnish the said data / information unless the waiver is in writing.
- m) Bidders shall familiarize itself with the procedures and time frames required to obtain all Consents, Clearances and Permits.
- n) All Bidders are required to ensure compliance with the standards and codes mentioned in Clause 1.6.1.2.
- o) BPC reserves the right to reject all Bids and/or annul the process of tariff based competitive bidding for selection of Bidder as TSP to execute the Project without assigning any reason. BPC shall not bear any liability, whatsoever, in this regard.
- p) Foreign companies submitting the Bid are required to follow the applicable law in their country for execution of POA, Consortium Agreement and affixation of Common Seal (wherever required) and in such cases, their Bid should be supported by an unqualified opinion issued by an independent legal counsel practicing in the relevant country, stating that execution of such POA, Consortium Agreement and the authorizations granted therein are true and valid. Foreign companies executing POA outside India shall necessarily pay the adequate stamp charges in India as per the provisions of Stamp Act.

## **2.5.7 Bidders to inform themselves fully**

- 2.5.7.1. The Bidders shall make independent enquiry and satisfy themselves with respect to all the required information, inputs, conditions and circumstances and factors that may have any effect on his Bid. Once the Bidders have submitted their Bids, the Bidders shall be deemed to have inspected and examined the site conditions (including but not limited to its surroundings, its geological condition and the adequacy of transport facilities to the site), the laws and regulations in force in India, the transportation facilities available in India, the grid conditions, the adequacy and conditions of roads, bridges, railway sidings, ports, etc. for unloading and/or transporting heavy pieces of material and has based its design, equipment size and fixed its price taking into account all such relevant conditions and also the risks, contingencies and other circumstances which may influence or affect the transmission of power. Accordingly, each Bidder acknowledges that, on being selected as Successful Bidder and on acquisition of one hundred percent (100%) of the equity shares of the .....**[Insert the name of the SPV]**, the TSP shall not be relieved from any of its obligations under the RFP Project Documents nor shall the TSP be entitled to any extension in Scheduled COD mentioned in this RFP or financial compensation for any reason whatsoever.
- 2.5.7.2. In their own interest, the Bidders are requested to familiarize themselves with all relevant laws of India, including without limitation, the Electricity Act 2003, the Income Tax Act 1961, the Companies Act, 1956 / Companies Act, 2013 (as the case may be), Environment Protection Act 1986 and Forest (Conservation) Act, 1980, the Customs Act, the Foreign Exchange Management Act, Land Acquisition Act, 1894, the Indian Telegraph Act 1885, Labor & Employment Laws of India, [Insurance Act] the regulations/standards framed by the Commissions and CEA, all other related acts, laws, rules and regulations prevalent in India, as amended from time to time.

In addition to the above, the Bidders are required to familiarize themselves with all relevant technical codes and standards, including but not limited to the Grid Code / State Grid Code, Central Electricity Authority (Installation and Operations of Meters) Regulations, 2006, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007, Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium - Term Open Access in Inter-State Transmission and related matters) Regulations, 2009, Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010, Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and other relevant Rules/ Regulations/ Guidelines issued by the Central Government, the CERC and the CEA and amendments thereof.

The BPC shall not entertain any request for clarifications from the Bidders regarding the above laws / acts / rules / regulations / standards. Non-awareness of the same shall not be a reason for the Bidder to request for extension in Bid Deadline. The Bidders undertake and agree that, before submission of their Bid, all such factors as generally brought out above, have been fully investigated and considered while submitting their Bids.

- 2.5.7.3. The Survey Report has been prepared in good faith, and on best endeavor basis. Neither BPC & Nodal Agency nor their employees or advisors/consultants make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions made in the Survey Report, or the accuracy, completeness or reliability of information contained therein, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of such Survey Report, even if any loss or damage is caused to the Bidders by any act or omission on their part.
- 2.5.7.4. Bidders shall make best efforts and carry out its own due diligence upon survey report provided by BPC and shall consider all possible techno-commercial factors before submission of Bid. Bidders may also visit the route of the Transmission Lines associated with the Project and the surrounding areas and obtain / verify all information which they deem fit and necessary for the preparation of their Bid. Bidders may also carry out required surveys and field investigation for submission of their Bid. Bidders may also opt for any other route and is not bound to follow the route suggested in survey report provided by BPC.
- 2.5.7.5. Failure to investigate, examine and to inspect site or subsurface conditions fully shall not be grounds for a Bidder to alter its Bid after the Bid Deadline nor shall it relieve a Bidder from any responsibility for appropriately eliminating the difficulty or costs of successfully completing the Project.
- 2.5.7.6. The Selected Bidder shall obtain all necessary Consents, Clearances and Permits as required. The Bidders shall familiarize itself with the procedures and time frame required to obtain such Consents, Clearances and Permits.
- 2.5.7.7. The technical requirements of integrated grid operation are specified in the Indian Electricity Grid Code (IEGC). The Bidders should particularly acquaint themselves with the requirements of connection conditions, operating code for regional grids, scheduling and dispatch instructions/codes, etc. The Bidders are also advised to fully familiarize

themselves with the real time grid conditions in the country. Information regarding grid parameters such as voltage and frequency is available on the websites of Regional / State Load Despatch Centers.

## 2.5.8 Minimum Equity holding/Equity Lock-in

2.5.8.1. (a) The aggregate equity share holding of the Selected Bidder, in the issued and paid up equity share capital of .....**[Insert the name of the SPV]** shall not be less than Fifty-one percent (51%) up to a period of (1) one year after COD of the Project;

(b) In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(c) If equity is held by the Affiliates, Parent Company or Ultimate Parent Company, then subject to the second proviso of this Clause 2.5.8.1 (c), such Affiliate, Parent Company or Ultimate Parent Company shall be permitted to transfer its shareholding in .....**[Insert the name of the SPV]** to another Affiliate or to the Parent Company / Ultimate Parent Company. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company.

Provided that in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction shall apply to such entities.

Provided further, that the aggregate equity share holding of the Bidding Consortium or a Bidding Company in the issued and paid up equity share capital of .....**[Insert the name of the SPV]** shall not be less than fifty-one percent (51%) up to a period of one (1) year after COD of the Project and the lead Member of the Consortium shall have the equity share holding not less than twenty-six percent (26%). In case the Selected Bidder is a Bidding Consortium, then any Member (other than the Lead Member) of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified in (a) above.

(d) All transfer(s) of shareholding of .....**[Insert the name of the SPV]** by any of the entities referred to above, shall be after prior written intimation to the Nodal Agency.

2.5.8.2. The Selected Bidder may invest in the equity share capital of .....**[Insert the name of the SPV]** through its Affiliate(s) or Ultimate Parent Company or Parent Company. Details of such investment will have to be specified in the Technical Bid as per Format 2 of Annexure 8 of the RFP. If the Selected Bidder so invests through any Affiliate(s) or Ultimate Parent Company or Parent Company, the Selected Bidder shall be liable to ensure that minimum equity holding/lock-in limits specified in Clause 2.5.8.1 and as computed as per the provisions of Clause 2.5.8.3 are still maintained.

2.5.8.3. For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity

holding of such Affiliate (s) or Ultimate Parent Company in .....[Insert the name of the SPV] shall be computed in accordance with the example given below:

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in .....[Insert the name of the SPV], then holding of Selected Bidder A in .....[Insert the name of the SPV] shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in .....[Insert the name of the SPV], then for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in .....[Insert the name of the SPV] shall be fifteen percent (15%), (i.e., 30% \* 50%);

2.5.8.4. The provisions as contained in this Clause 2.5.8 and Article 19.1 of the Transmission Service Agreement shall override the terms of the Consortium Agreement submitted by the Bidder as part of the RFP.

## 2.6 Project Schedule

2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Establishment of new 765/400 kV, 2x1500MVA GIS substation at Gopalpur in Odisha	30-06-2026	29.50%	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other
2.	Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAR switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits		57.31%	
3.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line <sup>@</sup>		7.66%	
4.	Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS		3.11%	

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s		2.42%	

**Note:**

- (a) @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- (b) #The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- (c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- (d) POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765 kV D/c line.

The payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after successful commissioning of the Element(s) which are pre-required for declaring the commercial operation of such Element as mentioned in the above table.

Scheduled COD for overall Project: **30.06.2026**

Note: List of Element(s) along with the critical Element(s) to be provided by CEA

**2.7 Due dates**

2.7.1. The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e. on or before 1100 hours (IST) on 20.05.2024. In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

2.7.2. Important timelines are mentioned below:

Date	Event
16.03.2024	Issuance of RFP
05.04.2024	Submission of written clarifications/amendments, if any, on the RFP / RFP Project Documents by Bidders so as to reach BPC by 1700 hours. Such written clarifications/amendments shall be in the format provided in Annexure-20.
08.04.2024	Pre-Bid meeting(s)
23.04.2024	Issue of written clarifications and revised RFP documents
03.05.2024	Issue of final RFP Project Documents
20.05.2024	Submission of Bid (Online submission of Bid through electronic bidding portal)
20.05.2024	Opening of Technical Bid
28.05.2024	Short listing and announcement of Qualified Bidders on bidding portal
29.05.2024	Opening of Financial Bid - Initial Offer
30.05.2024	Electronic reverse auction (Financial Bid – Final Offer) for the Qualified Bidders.
04.06.2024	Submission of original hard copies of Annexure 3, Annexure 4, Annexure 6, as applicable and Annexure 14 by the bidder with lowest Final Offer
07.06.2024	Selection of Successful Bidder and issue of LOI
18.06.2024	Signing of RFP Project Documents and transfer of .....[Insert the name of the SPV]

2.7.3. To enable BPC to meet the schedule, all Bidders are expected to respond expeditiously during the bidding process. If any milestone/activity falls on a day which is not a working day or which is a public holiday then the milestone/activity shall be achieved/completed on the next working day.

## 2.8 Validity of the Bid

2.8.1. The Bid shall remain valid for a period of one hundred and eighty (180) days from the Bid Deadline. The BPC reserves the right to reject any Bid which does not meet aforementioned validity requirement.

2.8.2. The BPC may solicit the Bidders' consent for an extension of the period of validity of the Bid. The request and the response, thereafter, shall be in writing. In the event any Bidder refuses to extend its Bid validity as requested by the BPC, the BPC shall not be entitled to invoke the Bid Bond. A Bidder accepting the BPC's request for validity extension shall not be permitted to modify its Bid and such Bidder shall, accordingly, extend the validity of the Bid Bond as requested by the BPC within seven (7) days of such request, failing which the Bid shall not be considered as valid.

## 2.9 Method of Submission

2.9.1. Both the Technical and Financial Bids duly filled in, all formats and supporting shall be scanned and uploaded online through electronic bidding platform in the manner specified in Annexure A

2.9.2. It may be noted that Technical Bid shall not contain any information/document relating to Financial Bid. If Technical Bid contains any such information/documents, the BPC shall not be responsible for premature opening of the Financial Bid.

All pages of the Bid, except for the Bid Bond (Annexure 14) and any other document executed on non-judicial stamp paper, forming part of the Bid and corrections in the Bid, if any, must be signed by the authorized signatory on behalf of the Bidder. It is clarified that the same authorized signatory shall sign all pages of the Bid. However, any published document submitted in this regard shall be signed by the authorized signatory at least on the first and last page of such document.

- 2.9.3. No change or supplemental information to a Bid already submitted will be accepted after the Bid Deadline, unless the same is requested for by the BPC as per Clause 2.5.6 (k).

Provided that a Bidder shall always have the right to withdraw / modify its Bid before the Bid Deadline. No Technical Bid or Initial Offer shall be modified, substituted or withdrawn by the Bidder on or after the Bid Deadline.

## 2.10 Preparation cost

- 2.10.1. The Bidders shall be responsible for all the costs associated with the preparation of the Bid and participation in discussions and attending pre-bid meetings, and finalization and execution of the RFP Project Documents (other than the TSA), etc. BPC shall not be responsible in any way for such costs, regardless of the conduct or outcome of the process of tariff based competitive bidding for selection of Bidder as TSP as per Bidding Guidelines.

- 2.10.2. The cost of this RFP is Rupees Five Lakh Only (Rs. 5,00,000) or U.S. Dollar Seven Thousand Only (US\$ 7,000) plus GST as per applicable rate, which shall be non-refundable. This amount shall be paid via electronic transfer to the following Bank Account:

Bank Name, Address & Branch	ICICI Bank 9A, Phelps Building, Inner Circle, Connaught Place, New Delhi-110001
Bank Account Name	REC Power Development & Consultancy Limited
Bank Account No	000705041275
Bank IFSC Code No	ICIC0000007

Immediately after issuance of RFP document, the Bidder shall submit the Pre-Award Integrity Pact in the format as prescribed in Annexure B, which shall be applicable for and during the bidding process, duly signed on each page by any whole-time Director / Authorized Signatory, duly witnessed by two persons, and shall be submitted by the Bidder in two (2) originals in a separate envelope, duly superscripted with Pre-Award Integrity Pact. The Bidder shall submit the Pre-Award Integrity Pact on non-judicial stamp paper of Rs. 100/- each duly purchased from the National Capital Territory of Delhi. In case the Bidder is in a consortium, the Pre-Award Integrity Pact shall be signed and submitted by each member of the Consortium separately.

## 2.11 Bid Bond

- 2.11.1. Each Bidder shall submit the Bid accompanied by Bid Bond issued by any of the Banks listed in Annexure-17. The Bid Bond shall be valid for a period of thirty (30) days beyond the validity of the Bid.

- 2.11.2. Subject to the provisions of Clause 2.15.5, the Bid Bond may be invoked by the BPC or its authorized representative, without any notice, demure, or any other legal process upon occurrence of any of the following:

- Bidder withdraws during the period of Bid Validity as specified in this RFP or as extended by mutual consent of the respective Bidder(s) and the BPC
- Failure to execute the Share Purchase Agreement as per the provisions of Clause 2.15.2; or
- Failure to furnish the Contract Performance Guarantee as per Clause 2.12; or
- Failure to acquire one hundred percent (100%) equity shares of .....**[Insert the name of the SPV]**, along with all its related assets and liabilities, in accordance with the provisions of Clause 2.15.2; or
- Failure to comply with the provisions of Clause 2.15.5 and Clause 2.15.6, leading to annulment of the award of the Project.
- Bidders submitting any wrong information or making any misrepresentation in their Bid as mentioned in Clause 2.5.6.

Intimation of the reasons of the invocation of the Bid Bond shall be given to the Selected Bidder by the BPC within three (3) working days after such invocation.

2.11.3. The Bid Bond of the Selected Bidder shall be returned on submission of the Contract Performance Guarantee as per Clause 2.12 and the relevant provisions of the Transmission Service Agreement.

2.11.4. The Bid Bond of all the Bidders, whose Bids are declared non-responsive, shall be returned within a period of thirty (30) days after the date on which the Financial Bids are opened.

2.11.5. The Bid Bond of all unsuccessful Bidders shall be returned and released by the BPC on the same day on which the .....**[Insert the name of the SPV]**, is transferred to the Selected Bidder. The Bid Bond of the Successful Bidder shall be returned on submission of Contract Performance Guarantee as per Clause 2.12 of this RFP and the provisions of the Transmission Service Agreement.

## **2.12 Contract Performance Guarantee**

2.12.1. Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of Rs. 58 Crore (Rupees Fifty-Eight Crore Only). The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project and thereafter shall be dealt with in accordance with the provisions of the Transmission Service Agreement. The Contract Performance Guarantee shall be issued by any of the banks listed in Annexure-17.

2.12.2. In case the Selected Bidder is unable to obtain the Contract Performance Guarantee for the total amount from any one bank specified in Annexure-17, the Selected Bidder may obtain the same from not more than three (3) banks specified in Annexure-17.

## **2.13 Opening of Bids**

- 2.13.1. Technical Bid will be opened by the Bid Opening Committee as per the following time schedule and in the office of Central Electricity Authority, in the online presence of Bidders' representatives who wish to attend:

Opening of Envelope (Technical Bid): 1130 hours (IST) on 20.05.2024.

or such other dates as may be intimated by BPC to the Bidders.

In the event of any of above dates falling on a day which is not a working day or which is a public holiday, then the bids shall be opened on the next working day at the same venue and time.

Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1130 hours (IST) on 29.05.2024 in the office of CEA.

- 2.13.2. The following information from each Bid will be read out to all the Bidders at the time of opening of Technical Bid:

- Name of the Bidding Company / Consortium Members in case of Bidding Consortium.

**Information to be provided after opening of Initial Offer:**

Only the lowest Initial Offer (s) shall be communicated to all the Qualified Bidders to participate in the e-reverse bidding process. During the e-reverse bidding process only the lowest prevailing bid should be visible to all the bidders on the electronic platform.

## 2.14 Enquiries

Written clarifications on the RFP and other RFP Project Documents as per Clause 2.3 and 2.4 may be sought from:

Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001  
Email: pshariharan@recpdcl.in & tbc@recpdcl.in

## 2.15 Other Aspects

- 2.15.1. The draft of the Transmission Service Agreement has been attached to this RFP. In addition to above, the following documents have also been attached to this RFP:

- a) Share Purchase Agreement

When the drafts of the above RFP Project Documents are provided by the BPC, these RFP Project Documents shall form part of this RFP as per Formats – 1 & 2 of Annexure 20.

Upon finalization of the RFP Project Documents after incorporating the amendments envisaged in Clause 2.4 of this RFP, all the finalized RFP Project Documents shall be provided by BPC to the Bidders at least fifteen (15) days prior to the Bid Deadline.

The Transmission Service Agreement and Share Purchase Agreement shall be signed in required number of originals so as to ensure that one (1) original is retained by each party to the Agreement(s) on the date of transfer of SPV.

2.15.2. Within ten (10) days of the issue of the Letter of Intent, the Selected Bidder shall:

- a) provide the Contract Performance Guarantee in favour of the Nodal Agency as per the provisions of Clause 2.12;
- b) execute the Share Purchase Agreement and the Transmission Service Agreement;
- c) acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of .....**[Insert the name of the SPV]** from REC Power Development and Consultancy Limited, who shall sell to the Selected Bidder, the equity shareholding of .....**[Insert the name of the SPV]**, along with all its related assets and liabilities;

Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of .....**[Insert the name of the SPV]**, along with all its related assets and liabilities, shall also be borne by the Selected Bidder.

Provided further that, if for any reason attributable to the BPC, the above activities are not completed by the Selected Bidder within the above period of ten (10) days as mentioned in this Clause, such period of ten (10) days shall be extended, on a day for day basis till the end of the Bid validity period.

2.15.3. After the date of acquisition of the equity shareholding of .....**[Insert the name of the SPV]**, along with all its related assets and liabilities, by the Selected Bidder,

- i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency,
- ii. all rights and obligations of .....**[Insert the name of the SPV]**, shall be of the TSP,
- iii. any decisions taken by the BPC prior to the Effective Date shall continue to be binding on the Nodal Agency and
- iv. contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.
- v. Further, the TSP shall execute the Agreement(s) required, if any, under Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time.

2.15.4. Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as

required under Section – 63 of The Electricity Act 2003.

- 2.15.5. If the Selected Bidder / TSP fails or refuses to comply with any of its obligations under Clauses 2.15.2, 2.15.3 and 2.15.4, and provided that the other parties are willing to execute the Share Purchase Agreement and REC Power Development and Consultancy Limited is willing to sell the entire equity shareholding of .....[Insert the name of the SPV], along with all its related assets and liabilities, to the Selected Bidder, such failure or refusal on the part of the Selected Bidder shall constitute sufficient grounds for cancellation of the Letter of Intent. In such cases, the BPC / its authorized representative(s) shall be entitled to invoke the Bid Bond of the Selected Bidder.
- 2.15.6. If the TSP fails to obtain the Transmission License from the Commission, it will constitute sufficient grounds for annulment of award of the Project.
- 2.15.7. The annulment of award, as provided in Clauses 2.15.5 and 2.15.6 of this RFP, will be done by the Government on the recommendations of National Committee on Transmission. However, before recommending so, National Committee on Transmission will give an opportunity to the Selected Bidder / TSP to present their view point.
- 2.15.8. The annulment of the award, under Clause 2.15.5 or 2.15.6 of this RFP, shall be sufficient grounds for blacklisting the bidder, whose award has been annulled, for a period of five years or more, as decided by the National Committee on Transmission, provided that the blacklisting shall be done only after giving the bidder an opportunity for showing cause.

## **2.16 Confidentiality**

- 2.16.1. The parties undertake to hold in confidence this RFP and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:
- a) to their professional advisors;
  - b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities;
  - c) disclosures required under Law, without the prior written consent of the other parties of the concerned agreements.

Provided that the TSP agrees and acknowledges that the Nodal Agency may at any time, disclose the terms and conditions of the RFP and RFP Project Documents to any person, to the extent stipulated under the Law or the Bidding Guidelines.

## **2.17 Right of the BPC to reject any Bid**

BPC reserves the right to reject all or any of the Bids/ or cancel the RFP without assigning any reasons whatsoever and without any liability.

- 2.18** Non submission and/or submission of incomplete data/ information required under the provisions of RFP shall not be construed as waiver on the part of BPC of the obligation

of the Bidder to furnish the said data / information unless the waiver is in writing.

## 2.19 Fraudulent and Corrupt Practices

2.19.1. The Bidders and their respective officers, employees, agents and advisers shall observe the highest standard of ethics during the Bid process and subsequent to the issue of the LoI Notwithstanding anything to the contrary contained herein, or in the LoI, the BPC shall reject a Bid, withdraw the LoI, as the case may be, without being liable in any manner whatsoever to the Bidder, if it determines that the Bidder has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the BPC shall forfeit the Bid Bond, without prejudice to any other right or remedy that may be available to the BPC hereunder or otherwise.

2.19.2. Without prejudice to the rights of the BPC under Clause 2.19.1 hereinabove and the rights and remedies which the BPC may have under the LoI, if a Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of the LoI, such Bidder & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such Bidder is found by the BPC to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.

2.19.3. For the purposes of this Clause 2.19, the following terms shall have the meaning hereinafter respectively assigned to them:

- a) **“corrupt practice”** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the LoI or has dealt with matters concerning the Transmission Service Agreement or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the LoI or after the execution of the Transmission Service Agreement, as the case may be, any person in respect of any matter relating to the Project or the LoI or the Transmission Service Agreement, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;
- b) **“Fraudulent practice”** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;
- c) **“Coercive practice”** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person’s participation or action in the Bid process;

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- d) **"undesirable practice"** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and
- e) **"Restrictive practice"** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process.

**SECTION - 3**

**EVALUATION OF THE TECHNICAL AND FINANCIAL BID**

**1. EVALUATION OF BID****3.1. The evaluation process of Technical Bid comprises the following five steps:**

- Step I – Responsiveness check
- Step II- Compliance with submission requirements
- Step III– Evaluation of Technical Bids
- Step IV– Evaluation of Financial Bids
- Step V – Bidder Selection

**3.2. STEP I – Responsiveness check**

The Technical Bid submitted by the Bidder shall be initially scrutinized to establish “Responsiveness”. Subject to clause 2.5.6 (k), any of the following conditions shall cause the Technical Bid to be “Non-responsive”:

- a) Technical Bid that are incomplete.
- b) Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.
- c) All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.
- d) Technical Bid not including the covering letter as per Annexure 1.
- e) Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.
- f) Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.
- g) Bidder submitting or participating in more than one Bid either as a Bidding Company or as a Member of Bidding Consortium.
- h) More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.
- i) Information not submitted in formats specified in the RFP.
- j) Applicable Board resolutions, or any other document, as provided in Clause 2.5.2, not being submitted;
- k) Bid not accompanied by a valid Bid Bond ~~or Bid Security Declaration, as applicable;~~
- l) Non submission of power of attorney, supported by a Board resolution;
- m) Bid validity being less than that required as per Clause 2.8 of this RFP;
- n) Bid not containing Format-1 (Bidders' Undertakings) of Annexure-8;

- o) Bidder having Conflict of Interest
- p) The Bidder has not submitted a disclosure as per Annexure 13.
- q) Bidders delaying in submission of additional information or clarifications sought by the BPC.
- r) If the Bidder makes any misrepresentation as specified in Clause 3.7.
- s) Bid being conditional in nature.
- t) More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.

### **3.3. STEP II - Compliance with submission requirements**

Each Bidder's Technical Bid shall be checked for compliance with the submission requirements set forth in this RFP before the evaluation of Technical Bid is taken up. Annexure 16 and Annexure 11A shall be used to check whether each Bidder meets the stipulated requirements.

### **3.4. STEP III -Evaluation of Technical Bid**

Evaluation of Technical Bid will be carried out considering the information and documents furnished by the Bidders as required under this RFP. This step would involve technical and financial evaluation of the details/ documents furnished by the Bidding Company / Bidding Consortium in support of meeting the Qualification Requirements

#### **3.4.1. Interpolation of financial data.**

For the Qualification Requirements data provided by the Bidders in foreign currency, equivalent rupees of Networth will be calculated using bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the accounts for the respective financial year as certified by their Banker.

For the purpose of calculating the aggregate capital expenditure/construction experience of the projects completed/ commissioned where such projects are executed outside India and capital expenditure is denominated in foreign currency, bills selling exchange rates (card rate) USD/INR of State Bank of India prevailing on the date of closing of the financial year in which the projects were completed and as certified by their Banker shall be considered.

For the projects executed in the current financial year bills selling (card rate) USD/INR of State Bank of India prevailing on seven (7) days prior to the last date of submission of Technical Bid and as certified by their Banker shall be considered.

For currency other than USD, Bidders shall convert such currency into USD as per the exchange rates certified by their Banker prevailing on the relevant date and used for such conversion. Such Bidders shall submit necessary certification from their Banker for the exchange rate used in the conversation.

If the exchange rate for any of the above dates is not available, the rate for the immediately available previous day shall be taken into account.

3.4.2. Bidders meeting the Qualification Requirements, subject to evaluation as specified in Clauses 3.2 to 3.4 shall be declared as Qualified Bidders and eligible for opening of Initial Offer.

3.4.3. The BPC shall upload the list of all Qualified Bidders and Non-Qualified Bidders on the bidding portal along with the reasons for non-qualification.

### **3.5. STEP IV - Evaluation of Financial Bids**

3.5.1. The Bids which have been found Qualified by the BPC, based on the Steps I to III as specified above in Clauses 3.2 to 3.4, shall be opened and Quoted Transmission Charges of such Initial Offer shall be ranked on the basis of the ascending Initial Offer submitted by each Qualified Bidder.

Based on such ranking of the Qualified Bidders, in the first fifty per cent of the ranking (with any fraction rounded off to higher integer) or four Qualified Bidders, whichever is higher, shall qualify for participating in the electronic reverse auction.

Provided however, in case only one Bidder remains after the Evaluation of Technical Bid (Steps 1 to III) as per Clause 3.2 to 3.4, the Initial Offer of such Bidder shall not be opened and the matter shall be referred to the Government.

Provided that in the event the number of Qualified Bidders is between two and four, then each of the responsive Bidder shall be considered as Qualified Bidders.

Provided that in the event of identical Quoted Transmission Charges discovered from the Initial Offer having been submitted by one or more Bidders, all such Bidders shall be assigned the same rank for the purposes of determination of Qualified Bidders. In such cases, all Qualified Bidders who shares the same rank till 50% of the rank (with any fraction rounded off to higher integer) determined above, shall qualify to participate in the electronic reverse auction stage. In case 50% of the rank is having less than four (4) Bidders and the rank of the fourth (4<sup>th</sup>) Bidder is shared by more than one Bidder, then all such all such Bidders who share the rank of the fourth Bidder shall qualify to participate in the electronic reverse auction.

3.5.2. The Financial Bids comprising of both Initial Offer and Final Offer submitted by the Bidders shall be scrutinized to ensure conformity with the provisions of Clause 2.5.3 of this RFP. Any Bid not meeting any of the requirements as per Clause 2.5.3 of this RFP may cause the Bid to be considered "Non-responsive", at the sole decision of the BPC. Financial Bid not in conformity with the requirement of SI. No. (c) of Clause 2.5.3 of this RFP shall be rejected.

3.5.3 The Bidders shall quote the single annual Quoted Transmission Charges as specified in the format at Annexure – 21.

### **3.6. STEP V - Bidder Selection**

3.6.1. The prevailing lowest Quoted Transmission Charges discovered from Final Offers shall only be displayed during the e-reverse bidding and the Bidder quoting such Final Offer will always remain anonymous during the e-reverse bidding. The Bidder with the prevailing lowest Quoted Transmission Charges discovered from Final Offers at the close of the

scheduled or extended period of e-reverse bidding as mentioned in clause 2.5 shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

However, if no bid is received during the e-reverse bidding stage then the Bidder with lowest quoted initial transmission charges ("Initial Offer") during e-bidding stage shall be declared as the Successful Bidder, subject to verification of the original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14. The Letter of Intent shall be issued to such Successful Bidder in two (2) copies.

In case, there is a discrepancy between the online submission and physical documents, the bid would be outrightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.

- 3.6.2. The Selected Bidder shall unconditionally accept the LoI, and record on one (1) copy of the LoI, "Accepted unconditionally", under the signature of the authorized signatory of the Successful Bidder and return such copy to the BPC within seven (7) days of issue of LoI.
- 3.6.3. If the Successful Bidder, to whom the Letter of Intent has been issued, does not fulfill any of the conditions specified in Clauses 2.15.2, 2.15.3 and Clause 2.15.4, then subject to Clause 2.15.5, the BPC reserves the right to annul the award of the Project and cancel the Letter of Intent. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.
- 3.6.4. The BPC, in its own discretion, has the right to reject all Bids if the Quoted Transmission Charges are not aligned to the prevailing prices.

### **3.7. Misrepresentation by the Bidder**

If the Bidder conceals any material information or makes a wrong statement or misrepresents facts or makes a misleading statement in the Technical Bid or Bid, as the case may be, in any manner whatsoever, in order to create circumstances for the acceptance of its Technical Bid/Bid, the BPC reserves the right to reject such Technical Bid/Bid, and/ or cancel the Letter of Intent, if issued. Further, in case Letter of Intent is cancelled, consequences as per provisions of the RFP shall follow.

### **3.8. Disposition of Technical Bid**

- 3.8.1. Technical Bid found to be Non-responsive as per Clause 3.2, due to any of the following conditions, shall be liable for rejection.
  - Technical Bid that is incomplete.
  - Technical Bid not signed by authorized signatory and / or stamped in the manner indicated in this RFP.
  - All pages of the Technical Bid submitted but not initialed by the authorized signatories on behalf of the Bidder.
  - Technical Bid not including the covering letter as per Annexure 1.
  - Technical Bid contains material inconsistencies in the information and documents submitted by the Bidder, affecting the Qualification Requirements.
  - Information not submitted in formats specified in the RFP.
  - The Bidder has not submitted a disclosure as per Annexure 13.

- Bidders delaying in submission of additional information or clarifications sought by the BPC.

3.8.2. Technical Bid found to be Non-responsive as per Clause **3.2**, due to any of the following conditions, shall be rejected.

- Technical Bid not received by the scheduled date and time.
- Technical Bid submitted by a Bidding Consortium not including the Consortium Agreement.
- Bidder submitting or participating in more than one response either as a Bidding Company or as a Member of Bidding Consortium.
- More than one Member of the Bidding Consortium or a Bidding Company using the credentials of the same Parent/Affiliate.
- Technical Bid having Conflict of Interest.
- If the Bidder makes any misrepresentation as specified in Clause **3.7**.

3.9. BPC reserves the right to interpret the Bid in accordance with the provisions of this RFP document and make its own judgment regarding the interpretation of the same. In this regard, BPC shall have no liability towards any Bidder and no Bidder shall have any recourse to BPC with respect to the qualification process.

BPC shall evaluate Bid using the process specified in Clause 3.1 to 3.6, at its sole discretion. BPC's decision in this regard shall be final and binding.

**SECTION - 4**

**ANNEXURES FOR BID**

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## SECTION – 4

### I. Formats for Bid

The following formats are required to be included in the Bidder's Technical and Financial Bid. These formats are designed to demonstrate the Bidder's compliance with the Qualification Requirements set forth in Clause 2.1 of Section – 2.

#### Technical Bid

1. Format for the Covering Letter
2. Format for Letter of Consent from Consortium Members
3. Format for evidence of authorized signatory's authority (Power of Attorney)
4. Format for Power of Attorney from to be provided by each of the other Members of the Consortium in favor of the Lead Member
5. Format for Bidder's composition and ownership structure and Format for Authorization
6. Format for Consortium Agreement
7. Formats for Qualification Requirement
8. Format of Bidders Undertaking and details of Equity Investment
9. Authorization from Parent/Affiliate of Bidding Company/Member of Bidding Consortium whose technical/financial capability has been used by the Bidding Company/Member of Bidding Consortium.
10. Undertaking from the Technically / Financially Evaluated Entity(ies) or from Ultimate Parent Company for equity investment
11. Format of Board Resolutions
12. Format for Illustration of Affiliates
13. Format for Disclosure
14. Format for Bid Bond
- ~~14A. Format for Bid Security Declaration~~
15. Format for Contract Performance Guarantee
16. Checklist for Technical Bid submission requirements
22. Format for Affidavit

In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of LoI.

#### Financial Bid

21. Format for Financial Bid

### II. The following formats are for the information to the Bidders to enable them to submit their Bid.

- 11A. Illustration For Applicable Board Resolution Requirements Under Clause 2.5.2
17. List of Banks
18. GRID Map of the Project
19. Format for clarification/amendments on the RFP/RFP Project Documents
20. Formats for RFP Project Documents

Bidder may use additional sheets to submit the information for its detailed Bid.

## ANNEXURE 1 - COVERING LETTER

**(The covering letter should be on the Letter Head of the Bidding Company/ Lead Member of the Consortium)**

Date: .....  
From: .....  
.....  
.....  
Tel. No.: .....  
Fax No.: .....  
E-mail address: .....

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System under “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process.**

1. Being duly authorized to present and act on behalf of M/s ..... (insert name of Bidding Company / Bidding Consortium) (hereinafter called the “Bidder”) and having read and examined in detail the Request for Proposal (RFP) document, the undersigned hereby submit our Technical Bid with duly signed formats and Financial Bid (Initial Offer) as stipulated in RFP document for your consideration.
2. It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP document and subsequent clarifications/amendments as per Clause 2.3 and 2.4 of RFP.
3. The information submitted in our Bid is complete, is strictly as per the requirements stipulated in the RFP document and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.
4. We hereby agree and undertake to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard.

We hereby also agree and undertake to comply with Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No.

6/18/2019-PPD, dated 24.07.2020, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India.

5. We hereby agree to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as amended from time to time.
6. We are herewith submitting legally binding board resolution for the total equity requirement of the Project.
7. We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are herewith submitting legally binding undertaking supported by a board resolution from the .....(Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of ..... (Insert name of the Bidding Company) shall be deemed to be equity investment obligations of the ..... (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by..... (Insert name of the Bidding Company), the same shall be met by ..... (Insert name of Technically Evaluated Entity and/or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be).

**[Sl. No 7 to be inserted only in case the Bidder is a Bidding Company / Lead Member of a Consortium and has sought qualification on the basis of technical and financial capability of its Affiliate(s) and/or its Parent]**

8. We confirm that there are no litigations or disputes against us, which materially affect our ability to fulfill our obligations with regard to the Project.
9. We hereby confirm that we shall continue to maintain compliance with Qualification Requirements till the execution of the Transmission Service Agreement. Further, in case we emerge as Selected Bidder for the Project, we shall continue to maintain compliance with Qualification Requirements till the COD of the Project.
10. We confirm that we have studied the provisions of relevant Indian laws and regulations required to enable us to build, own, operate and transfer the said Project and to prepare this Bid.
11. We hereby confirm that we shall abide unreservedly with BPC’s decision in the qualification process for selection of Qualified Bidder and further warrant that under no circumstances we shall challenge either the BPC’s decision or its right to make such decision at any time in the future.
12. We confirm that the Bid shall remain valid for a period of one eighty (180) days from the Bid Deadline.
13. The details of contact person are furnished as under:  
Name: .....  
Designation: .....  
Name of the Company: .....  
Address of the Bidder: .....  
Phone Nos.: .....  
Fax Nos.: .....  
E-mail address: .....

## 14. Bid Bond

We have enclosed a Bid Bond of Rupees ..... Crores (Rs. ....) only or US\$ ..... (.....US Dollars), in the form of bank guarantee no.....[Insert number of the Bank Guarantee] dated.....[Insert Date of the Bank Guarantee] as per your proforma (Annexure-14) from.....[Insert name of bank providing Bid Bond] and valid up to .....in terms of Clause 2.11 of the RFP.

## 15. Acceptance

We hereby unconditionally and irrevocably agree and accept that the decision made by the BPC on any matter regarding or arising out of the RFP shall be binding on us. We hereby expressly waive any and all claims in respect of Bid process.

## 16. Familiarity with Relevant Indian Laws & Regulations

We confirm that we have studied the provisions of relevant Indian laws and regulations as required to enable us to submit this Bid and execute the RFP Project Documents (other than TSA), in the event of our selection as the TSP. We further undertake and agree that all such factors as mentioned in Clause 2.5.7 of RFP have been fully examined and considered while submitting the Bid.

It is confirmed that our Bid is consistent with all the requirements of submission as stated in the RFP and subsequent communications from BPC.

The information submitted in our Bid is complete, strictly as per the requirements stipulated in the RFP and is correct to the best of our knowledge and understanding. We would be solely responsible for any errors or omissions in our Bid.

We confirm that we have not taken any deviation so as to be deemed non-responsive with respect to the provisions stipulated at Clause 2.5.1, of this RFP.

Thanking you,

Yours sincerely,

.....  
**(Name and Signature of the authorized signatory in whose name Power of Attorney/  
Board Resolution as per Clause 2.5.2 is issued)**

Name: .....

Designation: .....

Address: .....

Date: .....

Place: .....

**Company Rubber Stamp**

## ANNEXURE 2 - LETTER OF CONSENT FROM CONSORTIUM MEMBERS

(On the letter head of each Member of the Consortium including Lead Member)

Date: .....  
From: .....  
.....  
.....  
Tel. No.: .....  
Fax No.: .....  
E-mail address: .....

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System under “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

We, the undersigned Member of ..... (Insert name of the Bidding Consortium) have read, examined and understood the RFP document for the short-listing of Bidders as prospective TSP to establish Inter-State Transmission System for “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**” through tariff based competitive bidding process. We hereby confirm our concurrence with the Bid including in particular the Consortium Agreement submitted by ..... (Insert name of the Lead Member) in response to the RFP document.

We hereby confirm our commitment to participate in the said Bidding Consortium and invest ..... % of the total equity requirement for the Project as per the terms of the Consortium Agreement dated ..... and board resolution for such investment commitment is enclosed herewith.

We hereby confirm that in accordance with Clause 2.1.4 of the RFP, we are enclosing legally binding undertaking supported by a board resolution from the ..... (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) that all the equity investment obligations of ..... (Insert name of the Member) shall be deemed to be equity investment obligations of the ..... (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be) and in the event of any default by..... (Insert name of the Member), the same shall be met by..... (Insert name of Technically Evaluated Entity and / or Financially Evaluated Entity or its Ultimate Parent Company, as the case may be). [Insert if applicable]

**[To be inserted by the Lead Member only]** We are also enclosing legally binding board resolution for the total equity requirement of the Project in case of any breach of any of the

equity investment commitment by any of the Consortium Members, in line with the provisions of the Consortium Agreement dated ..... [Bidder to insert date of Consortium Agreement].

The details of contact person are furnished as under:

Name: .....  
Designation: .....  
Name of the Company: .....  
Address: .....  
Phone Nos.: .....  
Fax Nos.: .....  
E-mail address: .....

Dated the ..... day of ..... of 20...

Thanking you,

Yours faithfully,

.....  
(Signature)

Name: .....  
Designation: .....

(Signature, Name, Designation of Authorized Signatory of Consortium Member and Company's Seal)

## ANNEXURE 3 - FORMAT FOR EVIDENCE OF AUTHORIZED SIGNATORY'S AUTHORITY (POWER OF ATTORNEY)

### POWER OF ATTORNEY

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)**

Know all men by these presents, We .....(name and address of the registered office of the Bidder) do hereby constitute, appoint and authorize Mr./Ms.....(name and residential address) who is presently employed with us and holding the position of ..... as our attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System under “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**” through tariff based competitive bidding process in the country of India, including signing and submission of all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc., making representations to the BPC, and providing information / responses to the BPC, representing us in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project till the completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

We hereby agree to ratify all acts, deeds and things lawfully done by our said attorney pursuant to this Power of Attorney and that all acts, deeds and things done by our aforesaid attorney shall and shall always be deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

**For ..... [Insert name of the Bidder on whose behalf PoA is executed]**

.....  
**(Signature)**

Name: .....  
Designation: .....

### **Accepted**

.....  
**(Signature of the Attorney)**

Name: .....  
Designation: .....  
Address: .....

.....  
**(Name, Designation and Address of the Attorney)**

Specimen signatures of attorney attested by the Executant

.....

**(Signature of the Executant)**

.....

**(Signature of Notary Public)**

Place: .....

Date: .....

**Notes:**

- 1) To be executed by Bidding Company or the Lead Member, in the case of a Bidding Consortium, as the case maybe.
- 2) The mode of execution of the Power of Attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.
- 3) Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).
- 4) In case of foreign Bidders, refer to clause 2.5.6 (p)

**ANNEXURE 4 - FORMAT FOR POWER OF ATTORNEY TO BE PROVIDED BY EACH OF THE OTHER MEMBERS OF THE CONSORTIUM IN FAVOUR OF THE LEAD MEMBER**

**POWER OF ATTORNEY**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)**

**KNOW ALL MEN BY THESE PRESENTS THAT** M/s....., having its registered office at ....., .....,.....and M/s ..... having its registered office at ..... , (Insert names and registered offices of all Members of the Consortium), the Members of Consortium, have formed a Bidding Consortium named ..... (insert name of the Consortium) (hereinafter called the **“Consortium”**) vide Consortium Agreement dated..... and having agreed to appoint M/s..... as the Lead Member of the said Consortium do hereby constitute, nominate and appoint M/s.....a company incorporated under the laws of .....and having its Registered / Head Office at .....as our duly constituted lawful Attorney (hereinafter called as **“Lead Member”**) which is one of the Members of the Consortium, to act as the Lead Member and our true and lawful attorney, to do in our name and on our behalf, all such acts, deeds and things necessary in connection with or incidental to submission of Consortium's Bid for the Project, including signing and submission of the Bid and all documents related to the Bid, including, undertakings, letters, certificates, acceptances, clarifications, guarantees, etc, making representations to the BPC, and providing information / responses to the BPC, representing us and the Consortium in all matters before the BPC, and generally dealing with the BPC in all matters in connection with our Bid for the said Project, till completion of the bidding process in accordance with the RFP and signing of the Share Purchase Agreement by all the parties thereto.

It is expressly understood that in the event of the Consortium being selected as Successful Bidder, this Power of Attorney shall remain valid, binding and irrevocable until the Bidding Consortium achieves execution of all RFP Project Documents.

We, as the Member of the Consortium, agree and undertake to ratify and confirm all whatsoever the said Attorney/Lead Member has done on behalf of the Consortium Members pursuant to this Power of Attorney and the same shall bind us and deemed to have been done by us.

All the terms used herein but not defined shall have the meaning ascribed to such terms under the RFP.

**IN WITNESS WHEREOF** M/s ....., as the Member of the Consortium have executed these presents on this..... day of .....

For and on behalf of  
Consortium Member

.....  
**(Signature of the Authorized Signatory)**

Name: .....

Designation: .....  
Place: .....  
Date: .....

Name: .....  
Designation: .....  
Place: .....  
Date: .....

**Accepted**

Specimen signatures of attorney attested

.....  
**(Signature)**

.....

.....

**(Signature of Notary Public)**

.....

**(Name, Designation and Address  
of the Attorney)**

Place: .....

Date: .....

**Notes:**

1. The mode of execution of the power of attorney should be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executant(s) and when it is so required, the same should be under common seal of the executant affixed in accordance with the applicable procedure. Further, the person whose signatures are to be provided on the power of attorney shall be duly authorized by the executant(s) in this regard.
2. Also, wherever required, the executant(s) should submit for verification the extract of the charter documents and documents such as a Board resolution / power of attorney, in favour of the Person executing this power of attorney for delegation of power hereunder on behalf of the executant(s).
3. In case of foreign Bidders, refer to clause 2.5.6 (p)

## ANNEXURE 5 - FORMAT FOR BIDDER'S COMPOSITION AND OWNERSHIP STRUCTURE

**1. Corporate Details:**

Please provide the following information for the Bidder. If the Bidder is a Consortium, please provide this information for each Member including the Lead Member:

**a. Company's Name, Address, and Nationality:**

Name: .....

Address: .....  
.....  
.....

Website Address: .....

Country of Origin: .....

**b. Year Organized:** .....

**c. Company's Business Activities:** .....  
.....

**d. Status as a Bidder:**

- i. Bidding Company
- ii. Lead Member of the Bidding Consortium
- iii. Member of the Bidding Consortium

**Note: tick the applicable serial number**

**e. Company's Local Address in India (if applicable):**

.....  
.....  
.....

**f. Name of the Authorized Signatory:** .....

**g. Telephone Number:** .....

**h. Email Address:** .....

**i. Telefax Number:** .....

**j. Please provide the following documents:**

- i. Copy of the Memorandum and Articles of Association and certificate of incorporation or other equivalent organizational document (as applicable), including their amendments, certified by the Company Secretary as **Attachment 1** for Bidding Company / each Member of Bidding Consortium including Lead Member.

- ii. Authority letter (as per format for authorization given below) in favour of BPC from the Bidder/every Member of the Consortium authorizing BPC to seek reference from their respective bankers & others as **Attachment 2** as per Clause 2.1.6 of the RFP.

**2. Details of Ownership Structure:**

Equity holding of Bidding Company/ each Member of Bidding Consortium including Lead Member owning 10% or more of total paid up equity.

Name of the Bidding Company / Consortium Member: .....

Status of equity holding as on .....

Name of the Equity Holder	Type and No. of Shares owned	Extent of Voting Control (%)
1. ....		
2. ....		
3. ....		
4. ....		
5. ....		
6. ....		
7. ....		
8. ....		
....		

**Notes:**

1. The above table is to be filled in separately for each Consortium Member.
2. Status of equity holding should be provided not earlier than thirty (30) days prior to Bid Deadline.

**For and on behalf of Bidding Company / Lead Member of the Bidding Consortium**

M/s.....

.....

**(Signature of authorized representative)**

Name: .....

Designation: .....

.....

**(Stamp)**

Date: .....

Place: .....

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## FORMAT FOR AUTHORISATION

**(In case of Bidding Consortium, to be given separately by each Member)  
(On Non – judicial stamp paper duly attested by notary public. Foreign companies submitting bids are required to follow the applicable law in their country)**

The undersigned hereby authorize(s) and request(s) all our Bankers, including its subsidiaries and branches, any person, firm, corporation or authority to furnish pertinent information deemed necessary and requested by REC Power Development and Consultancy Limited to verify our Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system under “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**” through tariff based competitive bidding process or regarding our project development experience, financial standing and general reputation.

**For and on behalf of M/s..... (Insert Name of Bidding Company or Member of the Consortium)**

.....  
**(Signature)**

Name of Authorized Signatory: .....

**(Signature and Name of the authorized signatory of the Company)**

Place: .....

Date: .....

.....  
**(Company rubber stamp/seal)**

.....  
**(Signature of Notary Public)**

Place: .....

Date: .....

## ANNEXURE 6 - FORMAT FOR CONSORTIUM AGREEMENT

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign companies submitting bids are required to follow the applicable law in their country)

**THIS CONSORTIUM AGREEMENT** executed on this..... day of .....Two thousand.....between M/s....., a company incorporated under the laws of ..... and having its Registered Office at ..... (hereinafter called the "Party 1", which expression shall include its successors, executors and permitted assigns) and M/s.....a Company incorporated under the laws of ..... and having its Registered Office at ..... (hereinafter called the "Party n", which expression shall include its successors, executors and permitted assigns) and for the purpose of submitting the Bid, acquisition of .....**[Insert the name of the SPV]**in case of award) and entering into other Agreement(s) as specified in the RFP (hereinafter referred to as "Agreements") as may be entered into with the Nodal Agency.

**WHEREAS**, the BPC had invited Bid in response to RFP issued to ..... (insert the name of purchaser of RFP) for selection of the bidder as the Transmission Service Provider to establish Inter-State Transmission System under **"Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)"** **AND WHEREAS**, Clause 2.2.4 of the RFP document stipulates that the Bidders qualifying on the strength of a Bidding Consortium will have to submit a legally enforceable Consortium Agreement in a format specified in the RFP document wherein the Consortium Members have to commit equity of a specific percentage in the Project.

**AND WHEREAS**, Clause 2.2.4 of the RFP document also stipulates that the Bidding Consortium shall provide along with the Bid, a Consortium Agreement as per prescribed format whereby the Consortium Members undertake to be liable for raising the required funds for its respective equity investment commitment as specified in Consortium Agreement.

### **NOW THEREFORE, THIS INDENTURE WITNESSTH AS UNDER:**

In consideration of the above premises and agreement all the parties in this Consortium do hereby mutually agree as follows:

1. In consideration of the selection of the Consortium as the selected bidder by the BPC, we the Members of the Consortium and parties to the Consortium Agreement do hereby unequivocally agree that M/s..... (Insert name of the Lead Member), shall act as the Lead Member as defined in the RFP for self and agent for and on behalf of ....., ....., ....., ..... (the names of all the other Members of the Consortium to be filled in here).
2. The Lead Member is hereby authorized by the Members of Consortium and parties to the Consortium Agreement to bind the Consortium and receive instructions for and on behalf of the Members.
3. Notwithstanding anything contrary contained in this Consortium Agreement, the Lead Member shall always be liable for the equity investment obligations of all the Consortium Members, i.e., for both its own equity contribution as well as the equity contribution of other Members.

4. The Lead Member shall be liable and responsible for ensuring the individual and collective commitment of each of the Members of the Consortium in discharging all their respective equity obligations. Each Consortium Member further undertakes to be individually liable for the performance of its part of the obligations without in any way limiting the scope of collective liability envisaged in this agreement.
5. Subject to the terms of this agreement, the share of each Member of the Consortium in the “issued equity share capital of the project company” shall be in the following proportion: (if applicable)

Name	Percentage of equity holding in the Project
Party 1	.....
.....	.....
Party n	.....
<b>Total</b>	<b>100%</b>

[**Note:** The percentage equity holding for any Consortium Member in the Project cannot be zero in the above table]

6. The Lead Member shall inter alia undertake full responsibility for liaising with lenders and mobilizing debt resources for the Project and achieving financial closure.
7. In case of any breach of any of the equity investment commitment by any of the Consortium Members, the Lead Member shall be liable for the consequences thereof.
8. Except as specified in the Agreement, it is agreed that sharing of responsibilities as aforesaid and equity investment obligations thereto shall not in any way be a limitation of responsibility of the Lead Member under these presents.
9. It is further specifically agreed that the financial liability for equity contribution of Lead Member shall, not be limited in any way so as to restrict or limit its liabilities. The Lead Member shall be liable irrespective of their scope of work or financial commitments.
10. It is expressly understood and agreed between the Members that the responsibilities and obligations of each of the Members shall be as delineated as annexed hereto as **Appendix-I**, forming integral part of this Agreement. It is further agreed by the Members that the above sharing of responsibilities and obligations shall not in any way be a limitation of joint and several responsibilities and liabilities of the Members, with regards to all matters relating to the Project.
11. It is clearly agreed that the Lead Member shall ensure performance under the Agreements and if one or more Consortium Members fail to perform its /their respective obligations under the Agreement(s), the same shall be deemed to be a default by all the Consortium Members.
12. This Consortium Agreement shall be construed and interpreted in accordance with the Laws of India and courts at Delhi alone shall have the exclusive jurisdiction in all matters relating thereto and arising there under.
13. It is hereby agreed that, the Lead Member shall furnish the bid bond, as stipulated in the RFP, on behalf of the Consortium Members.

- 14. It is hereby agreed that in case of selection of Bidding Consortium as the selected bidder, the parties to this Consortium Agreement do hereby agree that they shall furnish the contract performance guarantee on behalf of the TSP in favor of the Nodal Agency, as stipulated in the RFP and Transmission Service Agreement.
- 15. It is further expressly agreed that the Consortium Agreement shall be irrevocable and shall form an integral part of the RFP Project Document and shall remain valid till the execution of the Share Purchase Agreement, unless expressly agreed to the contrary by the Nodal Agency. Over the term of the Transmission Service Agreement, Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations as amended from time to time shall apply on the Consortium Members.
- 16. The Lead Member is authorized and shall be fully responsible for the accuracy and veracity of the representations and information submitted by the Consortium Members respectively from time to time in response to the RFP and for the purposes of the Project.
- 17. It is hereby expressly agreed between the parties to this Consortium Agreement that neither party shall assign or delegate its rights, duties or obligations under this Agreement except with the prior written consent of the Nodal Agency.

**THIS CONSORTIUM AGREEMENT:**

- a. has been duly executed and delivered on behalf of each party hereto and constitutes the legal, valid, binding and enforceable obligation of each such party,
- b. sets forth the entire understanding of the parties hereto with respect to the subject matter hereof;
- c. may not be amended or modified except in writing signed by each of the parties and with prior written consent of the Nodal Agency.

**IN WITNESS WHEREOF**, the parties to the Consortium Agreement have, through their authorized representatives, executed these present on the Day, Month and Year first mentioned above.

For and on behalf of Consortium Member 1 (Party 1)  
M/s.....

.....  
**(Signature of authorized signatory)**

Name: .....  
Designation: .....  
Place: .....  
Date: .....

For and on behalf of Consortium Member n (Party n)  
M/s.....

.....  
**(Signature of authorized signatory)**

Name: .....  
Designation: .....  
Place: .....  
Date: .....

**Attested:**

.....  
**(Signature)**  
**(Notary Public)**

Place: .....  
Date: .....

Note: In case of foreign Bidders, refer to clause 2.5.6 (p)

## Appendix 1 to the Consortium Agreement:

<b>Name of the Consortium Member</b>	<b>Responsibilities under the Consortium Agreement</b>
M/s ..... (Party 1)	
M/s .....	
M/s ..... (Party n)	

## ANNEXURE 7 A - FORMAT FOR QUALIFICATION REQUIREMENT

### A. NET WORTH

To,  
**Chief Executive Officer,**  
**REC Power Development and Consultancy Limited**  
**(A wholly owned subsidiary of REC Limited)**  
**REC Corporate Head Quarter,**  
**D Block, Plot No. I – 4,**  
**Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System under “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

**1. [Note: Applicable in case of Bidding Company]**

We certify that the Financially Evaluated Entity(ies) had a Networth of Rs. .... Crore or equivalent USD\* computed as per instructions in this RFP based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years is not negative.

Name of Financially Evaluated Entity(ies)	Relationship with Bidding Company**	Financial Year	Networth (Rs. Crore)
1. ....			
2. ....			
3. ....			
....			
<b>Total Networkth</b>			

\*Equivalent USD shall be calculated as per provisions of Clause 3.4.1.

\*\* The column for “Relationship with Bidding Company” is to be filled in only in case financial capability of Parent/Affiliate has been used for meeting Qualification Requirements.

**2. [Note: Applicable in case of Bidding Consortium]**

We certify that the Financially Evaluated Entity(ies) had a minimum Networth of Rs. .... Crore or equivalent USD\* computed as per instructions in the RFP and based on unconsolidated audited annual accounts (refer Note-2 below) of any of the last three (3) financial years as provided in Clause 2.2.3, immediately preceding the Bid Deadline. Also, the Networth of any of the last three (3) financial years is not negative.

Name of Consortium Member	Equity Commitment in the Project (%)	Networth of Member (Rs. Crore)	Networth Requirement to be met by Member in proportion to the Equity Commitment (Rs. Crore)	Whether the Member meets the Networth Requirement
(1)	(2)	(3) (As per table below)	(4) = (2 x Total Networth requirement for the Project)	(5)
1. ....				Yes / No
2. ....				Yes / No
..				Yes / No
<b>Total Networth for financial requirement</b>				

### Member – I (Lead Member)

[Note: Similar particulars for each Member of the Consortium is to be furnished, duly certified by the Member's Statutory Auditors]

- i. Name of Member: .....
- ii. Total Networth requirement: Rs ..... Crore
- iii. Percentage of equity commitment for the Project by the Member: .....%
- iv. Networth requirement for the Member\*\*\*: Rs ..... Crore
- v. Financial year considered for the Member: .....

Name of Financially Evaluated Entity(ies)	Relationship** with Member of Consortium	Financial Year	Networth (Rs. Crore)
1. ....			
2. ....			
3. ....			
<b>Total Networth</b>			

\* Equivalent USD shall be calculated as per provisions of Clause 3.4.1;

\*\* The column for "Relationship with Member of Consortium" is to be filled in only in case the financial capability of Parent / Affiliate has been used for meeting Qualification Requirements;

\*\*\* Networth requirement to be met by Member should be in proportion to the equity commitment of the Member for the Project.

**Yours faithfully**

.....  
**(Signature and name of the authorized signatory of the Company and Stamp)**

Name: .....  
Date: .....  
Place: .....

.....  
**(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Consortium)**

Name: .....  
Date: .....  
Place: .....  
  
Date: .....

**Notes:**

1. Along with the above format, in a separate sheet, please provide details of computation of Networth of last three (3) financial years duly certified by Statutory Auditor.
2. Audited consolidated annual accounts of the Bidder may be used for the purpose of financial criteria provided the Bidder has at least 26% equity in each company whose accounts are merged in the audited consolidated accounts and provided further that the financial capability of such companies (of which accounts are being merged in the consolidated accounts) shall not be considered again for the purpose of evaluation of the Bid.
3. In case Bidder or a Member of Consortium takes recourse to its Parent/Affiliate for meeting technical / financial requirements, then the financial years considered for such purpose should be same for the Bidder / Member of Consortium and their respective Parent / Affiliate.

## ANNEXURE 7B - FORMAT FOR TECHNICAL REQUIREMENT

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System under “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

**1. To be used by Bidder using the development experience in infrastructure sector**

We certify that M/s. .... (Insert name of Technically Evaluated Entity(ies)) have experience of development of projects in the Infrastructure sector in the last five (5) years whose aggregate capital expenditure is Rs. .... Crore or equivalent USD\*. We further certify that the capital expenditure of any single project considered for meeting the technical Qualification Requirement is not less than Rs. .... Crore or equivalent USD\*. For this purpose, capital expenditure incurred on projects which have been either wholly completed / commissioned or partly completed projects put under commercial operation and for which operation has commenced till at least seven (7) days prior to the Bid Deadline has been considered.

The project(s) considered for the purpose of technical experience (as per table given below) have been executed and owned to the extent as indicated in the table below (to be atleast twenty – six percent (26%)) by the Bidding Company / Lead Member of the Consortium / our Parent / our Affiliate(s) [strike off whichever is not applicable] on operation of the projects.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	Relationship** with Bidding Company / Lead Member	Project name	Nature of Project (BOOT, BOT, BOOM, DBFOT etc.)	Relevant Infrastructure sector	Date of Financial Closure of the Project (in DD / MM / YYYY)	Date of Completion / Commissioning / Commercial Operation of partly completed projects	Project cost (Rs. Crore)	Percentage Equity Holding of Company at (1) in Completed project(s)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
.....		..... (Project 1)						
.....		.....						
<b>Total (Rs. Crore)</b>								

\* Equivalent USD shall be calculated as per provisions of Clause \_\_\_\_

\*\* The column for “Relationship with Bidding Company / Lead Member” is to be filled in only in case technical capability of Parent/Affiliate has been used for meeting Qualification Requirements.

We further certify that the Company(ies) as indicated in column (1) of the above table, whose technical capability has / have been used for meeting the qualification requirement, has / have held shareholding respectively of atleast twenty – six percent (26%) from the date of financial closure till the date of commissioning / completion of the above project(s).

## 2. To be used by Bidder using construction experience in infrastructure sector.

We certify that M/s. .... (Insert name of Technically Evaluated Entity(ies)) have received aggregate payments not less than Rs. .... Crore or equivalent USD (calculated as per provisions in Clause 3.4.1) from its client(s) for construction works fully completed during the last 5(five) financial years. We further certify that the payment received from each project shall not be less than Rs. .... Crore or equivalent USD (calculated as per provisions in Clause 3.4.1). For this purpose, payments received on projects that have been commissioned/completed at least seven (7) days prior to the Bid Deadline shall be considered. Further only the payments (gross) actually received, during such 5 (five) financial years shall qualify for purposes of computing the technical capacity.

We also confirm that construction works does not include cost of land supply of goods or equipment except when such goods or equipment form part of a turn-key construction contract/ EPC contract for the project.

This technical requirement has been calculated as per the instructions provided in the RFP on the basis of following projects:

Name of Company (which has executed the project at (3)) whose technical capability has been used for Qualification Requirement	Relationship** with Bidding Company / Lead Member	Project name	Nature of Project (EPC, Turnkey etc)	Relevant Infrastructure sector	Date of award of contract (in dd/mm/yy)	Date of Completion / Commissioning	Payment received (Rs. Crore)
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
.....		..... Project 1					
.....		.....					
.....		.....					
Total (Rs. Crore)							

Yours faithfully

.....  
(Signature and name of the authorized signatory of the Company and stamp)

Name: .....  
Date: .....  
Place: .....

.....  
**(Signature and Stamp of statutory Auditors of Bidding Company/ Lead Member of Consortium)**

Name: .....  
Date: .....  
Place: .....

Date: .....

**Notes:**

1. Along with the above format, in a separate sheet, please provide details of computation of capital expenditure of projects duly certified by Statutory Auditor of the project company. In addition, the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed 7 days prior to Bid Deadline has been capitalized in the books of accounts.

Additionally, in case construction experience is used, a certificate(s) from the statutory auditors stating the payments received and the concerned client(s) stating the works commissioned during the past 5 years in respect of the projects specified above. In case a particular job/ contract has been jointly executed by the Bidder (as part of a consortium), it should further support its claim for the share in work done for that particular job/ contract by producing a certificate from its statutory auditor or the client.

2. In case the accounts for the financial year in which the project claimed for meeting qualification requirement has been commissioned are not audited, the Bidder shall give declaration in this regard duly certified by its statutory auditor. In such a case, Bidder shall provide details of computation of capital expenditure of such project(s) duly certified by Statutory Auditor of the project company and the Statutory Auditor of the project company should also certify that the capital expenditure of projects commissioned or completed shall be capitalized in the books of accounts upon finalization.
3. The unconsolidated audited annual accounts of both the TEE and the Bidding Company / Lead Member for the respective financial years (financial years in which financial closure was achieved to the financial year in which the said project was completed / commissioned) should be submitted.

## ANNEXURE 7C - FORMAT FOR TECHNICAL & FINANCIAL REQUIREMENT – RELATIONSHIP & DETAILS OF EQUITY SHAREHOLDING

[To be filled by Bidding Company / each Member of the Bidding Consortium including Lead Member if credentials of Parent and / or Affiliates have been used by them]

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bid for selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System under “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

We certify that M/s. .... (insert name of the **Bidding Company / Consortium Members**) have considered the technical and financial capability of its Parent and / or Affiliates, for the purpose of meeting Qualification Requirements as per the instructions provided in the RFP. The name of Parent and / or Affiliate, nature of relationship(s) with such Parent and / or Affiliate and details of equity holding are as follows:

Name of Company whose credentials considered	Type of credentials considered (technical and / or financial)	Relationship with Bidding Company / Consortium Member (Parent / Affiliate)	Details of equity shareholding (refer notes below)
Company 1			
.....			
.....			
.....			
.....			

**NOTES:**

- i. In case of Parent, the equity holding of the Parent in the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, need to be specified.
- ii. In case of Affiliate under direct control of Bidder, the equity holding of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium in the Affiliate, needs to be specified.
- iii. In case of Affiliate under common control of Parent, the equity holding of the Parent in the Affiliate of the Bidding Company / Member of the Bidding Consortium, including the Lead Member of the Consortium, needs to be specified.

- iv. Relationship of Parent / Affiliate with Bidding Company / Member of Consortium to be at the most seven (7) days prior to the Bid Deadline (as per Clause 2.1.4 of RFP)

Yours faithfully

.....

**(Signature and name of the authorized signatory of the Company and stamp)**

Name: .....  
Date: .....  
Place: .....

.....

**(Signature and Stamp of statutory Auditors of Bidding Company / each Member of Bidding Consortium)**

Name: .....  
Date: .....  
Place: .....  
Date: .....

## ANNEXURE 7D - ADDITIONAL INFORMATION FOR VERIFICATION OF FINANCIAL AND TECHNICAL CAPABILITIES OF BIDDERS.

.....

**(Name of Bidder (Bidding Company/ Bidding Consortium or Technically/Financially Evaluated Entity(ies))**

**(Note:** In case of Consortium, details to be filled in by Lead Member for each Member of the Consortium including the Lead Member and in case of the qualification requirements of Technically / Financially Evaluated Entity(ies) being used, to be filled by each of such entity(ies)

**i. Financial capability (Attachment 1):**

1. Bidders shall attach unconsolidated / consolidated audited annual accounts, statements, as the case may be, (refer Clause 2.1.3) for the last three (3) financial years as Attachment 1. Such unconsolidated audited annual accounts shall include a Balance Sheet, Profit and Loss Account, Auditors Report and profit appropriation account.

**ii. Technical capability (Attachment 2):**

- a. This attachment shall include details of projects completed/commissioned or partly completed projects for which commercial operation has commenced to be considered for the purpose of meeting Qualification Requirements.

1. To be used by Bidder using development experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Capital cost of project(s) Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

**\*Note 1:** Date of completion/commissioning/commercial operation to be mentioned

**Note 2:** For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., BOO, BOOT, BOOM;
- Debt financing and equity raised and provided by Bidder/Bidder's Parent/Bidder's Affiliate for the project, including names of lenders and investors;
- Size and type of installation;

- Technical data/information on major equipment installed
- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project
- Clearances taken by the Bidder/Bidder's Parent/Bidder's Affiliate including but limited to right-of-way (RoW), forest clearance and other statutory / Govt. clearances.
- Cost data (breakdown of major components)
- Name of EPC and/or other major contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history
- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

2. To be used by Bidder using construction experience in infrastructure sector

Particulars	Year 1	Year 2	Year 3	Year 4	Year 5
Name(s) of project(s) from Infrastructure sectors					
Location(s) including country(s) where project was set up					
Nature of Project					
Voltage level (if any)					
Revenue received Rs. in Crore					
*Status of the project					
% of equity owned in the project(s)					

**\*Note 1:** Date of completion/commissioning/commercial operation to be mentioned

**Note 2:** For each project listed in the table, the Bidder shall furnish an executive summary including the following information:

- Project model, i.e., EPC, Turnkey;
- Size and type of installation;
- Technical data/information on major equipment installed
- Description of role performed by the Bidder/Bidder's Parent/Bidder's Affiliate on the project
- Cost data (breakdown of major components)
- Name of sub-contractor
- Construction time for the project
- Names, addresses and contact numbers of owners of the projects
- Operating reliability over the past five (5) years or since date of commercial operation
- Operating environmental compliance history
- Names of supervisory entities or consultant, if any
- Date of commercial operation
- Total duration of operation

iii. **Attachment-3:**

- a. For each project listed in Attachment 2 above, certificates of final acceptance and/or certificates of good operating performance duly issued by owners for the project and the same shall be certified as true by authorized signatory of the Bidding Company or the Lead Member of Consortium). In case the project listed in Attachment 2 is under BOOT / DBFOT mechanism, the certificates of final acceptance and/or certificates of good operating performance must be issued by the authority / independent engineer of the project as defined in the respective project agreement.

For and on behalf of Bidding Company/Consortium

M/s.....

.....  
**(Signature of authorized signatory)**

Name: .....  
Designation: .....  
Date: .....  
Place: .....

## ANNEXURE 8 -UNDERTAKING AND DETAILS OF EQUITY INVESTMENT

### Format 1: Bidders' Undertakings

[On the Letter Head of the Bidding Company/Lead Member of Bidding Consortium]

Date: .....

To,

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Inter-State transmission system under “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)”**

We hereby undertake on our own behalf and on behalf of the TSP, that if selected as the Successful Bidder for the Project:

1. The Project shall comply with all the relevant electricity laws, codes, regulations, standards and Prudent Utility Practices, environment laws and relevant technical, operational and safety standards, and we shall execute any agreements that may be required to be executed as per law in this regard.
2. We confirm that the Project shall also comply with the standards and codes as per Clause 1.6.1.2 of the RFP and the TSP shall comply with the provisions contained in the Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-state Transmission and related matters Open Access) Regulations, 2009.
3. We give our unconditional acceptance to the RFP dated 16.03.2024 issued by the BPC and the RFP Project Documents, as amended, and undertake to ensure that the TSP shall execute all the RFP Project Documents, as per the provisions of this RFP.
4. We have submitted the Bid on the terms and conditions contained in the RFP and the RFP Project Documents. Further, the Financial Bid submitted by us is strictly as per the format provided in Annexure 21 of the RFP, without mentioning any deviations, conditions, assumptions or notes in the said Annexure.
5. Our Bid is valid up to the period required under Clause 2.8 of the RFP.
6. Our Bid has been duly signed by authorized signatory and stamped in the manner and to the extent indicated in this RFP and the power of attorney / Board resolution in requisite format as per RFP has been enclosed with this undertaking.

7. We have assumed that if we are selected as the Successful Bidder, the provisions of the Consortium Agreement, to the extent and only in relation to equity lock in and our liability thereof shall get modified to give effect to the provisions of Clause 2.5.8 of this RFP and Article 18.1 of the Transmission Service Agreement. *(Note: This is applicable only in case of a Bidding Consortium)*
8. We confirm that our Bid meets the Scheduled COD of each transmission Element and the Project as specified below

Sl. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Establishment of new 765/400 kV, 2x1500MVA GIS substation at Gopalpur in Odisha	30-06-2026	29.50%	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
2.	Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVA r switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits		57.31%	
3.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line <sup>@</sup>		7.66%	
4.	Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS		3.11%	
5.	Extension at 400 kV level at <sup>#</sup> Gopalpur (OPTCL) GIS S/s		2.42%	

**Note:**

- (a) <sup>@</sup>Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- (b) <sup>#</sup>The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- (c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur

*(ISTS) – Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.*

- (d) *POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765 kV D/c line.*

We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

**Scheduled COD for the Project: 30.06.2026.**

9. We confirm that our Financial Bid conforms to all the conditions mentioned in this RFP, and in particular, we confirm that:
- a. Financial Bid in the prescribed format of Annexure 21 has been submitted duly signed by the authorized signatory.
  - b. Financial Bid is unconditional.
  - c. Only one Financial Bid has been submitted.
10. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our acquisition of .....**[Insert the name of the SPV]**, pursuant to our selection as Selected Bidder, we agree that the same would be treated as a TSP's Event of Default under Transmission Service Agreement, and relevant provisions of Transmission Service Agreement shall apply.
11. We confirm that there are no litigations or other disputes against us which materially affect our ability to fulfill our obligations with regard to the Project as per the terms of RFP Project Documents.
12. Power of attorney/ Board resolution as per Clause 2.5.2 is enclosed.

**Signature and name of the authorized signatory of the Company and stamp of Bidding Company or Lead member of Consortium**

**Note:**

1. In case of foreign Bidders, refer to clause 2.5.6

**Format 2: Details of equity investment in Project**

1.1.a Name of the Bidding Company/ Bidding Consortium:

1.1.b Name of the Lead Member in the case of a Bidding Consortium:

1.2 Investment details of the Bidding Company/Member of the Bidding Consortium investing in .....**[Insert the name of the SPV]** as per Clause 2.5.8.2.

S. No.	Name of the Bidding Company/ Member in case of a Bidding Consortium	Name of the Company investing in the equity of the ..... <b>[Insert the name of the SPV]</b>	Relationship with Bidding Company /Member of the Bidding Consortium	% of equity participation in the ..... <b>[Insert the name of the SPV]</b>
(1)	(2)	(3)	(4)	(5)
<b>TOTAL</b>				100%

\* In case the Bidder proposes to invest through its Affiliate(s) / Parent Company / Ultimate Parent Company, the Bidder shall declare shareholding pattern of such Affiliate(s) / Parent Company / Ultimate Parent Company and provide documentary evidence to demonstrate relationship between the Bidder and the Affiliate(s) / Parent Company / Ultimate Parent Company. These documentary evidences could be, but not limited to, demat account statement(s) / Registrar of Companies' (ROC) certification / share registry book, etc duly certified by Company Secretary.

Members of the Consortium or the Bidding Company making investment in the equity of the .....**[Insert the name of the SPV]** themselves to fill in their own names in the column (3)

**Signature and Name of authorized signatory in whose name power of attorney has been issued**

Signature of authorized signatory

Name: .....

Designation: .....

Date.....

Company rubber stamp

**ANNEXURE 9 -AUTHORISATION FROM PARENT / AFFILIATE OF BIDDING COMPANY / MEMBER OF BIDDING CONSORTIUM WHOSE TECHNICAL / FINANCIAL CAPABILITY HAS BEEN USED BY THE BIDDING COMPANY / MEMBER OF BIDDING CONSORTIUM.**

**[On the Letter Head of the Parent /Affiliate]**

Name: .....  
Full Address: .....  
Telephone No.: .....  
E-mail address: .....  
Fax / No.: .....

**To**

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4,  
Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Authorization for use of Technical / Financial Capability of M/s.....  
(Insert name of Parent / Affiliate) by M/s ..... (Insert name of Bidding  
Company / Member of Bidding Consortium).**

We refer to the RFP dated 16.03.2024 ('RFP') issued by you for selection of Bidder as Transmission Service Provider for establishing the Inter-State Transmission System under "**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**".

We confirm that M/s. .... (Insert name of Bidding Company/ Consortium Member) has been authorized by us to use our technical and/or financial capability [strikeout whichever is not applicable] for meeting the Qualification Requirements under "**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**".

We have carefully read and examined in detail the RFP including in particular, Clause 2.1.4 of the RFP, and we are also submitting legally binding undertaking supported by a board resolution that all the equity investment obligations of M/s..... (Insert Name of Bidding Company / Consortium Member), shall be deemed to be our equity investment obligations and in the event of any default the same shall be met by us.

For and on behalf of M/s..... (Insert Name of Parent / Affiliate)

.....  
**(Signature and Name of the authorized signatory of the Company and stamp)**

Name: .....  
Date: .....

Place: .....

**Notes:**

1. The above undertaking can be furnished by Ultimate Parent of Technically Evaluated Entity or Financially Evaluated Entity, as the case maybe, if legally binding undertaking is also furnished by the Ultimate Parent on behalf of such Financially Evaluated Entity/Technically Evaluated Entity.

ANNEXURE 10- FORMAT OF UNDERTAKING BY TECHNICALLY / FINANCIALLY EVALUATED ENTITY / ULTIMATE PARENT COMPANY

[On the Letter Head of the Technically / Financially Evaluated Entity / Ultimate Parent Company]

Name: .....
Full Address: .....
Telephone No.: .....
E-mail address: .....
Fax/No.: .....

To:

Chief Executive Officer,
REC Power Development and Consultancy Limited
(A wholly owned subsidiary of REC Limited)
REC Corporate Head Quarter,
D Block, Plot No. I – 4,
Sec – 29 Gurugram – 122 001

Sub: Undertaking for equity investment

Dear Sir,

We refer to the Request for Proposal dated 16.03.2024 ('RFP') issued by you regarding setting up of Inter-State transmission system under "Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)" Project on build, own, operate and transfer basis.

We have carefully read and examined in detail the RFP and the RFP Project Documents, including in particular, Clause 2.1.4 of the RFP and Clauses 2.5.2 and 2.5.8 of the RFP, regarding submission of an undertaking regarding the investment in the equity share capital of .....[Insert the name of the SPV] and provisions for minimum equity holding and equity lock-in. We have also noted the amount of the equity investment required to be made in .....[Insert the name of the SPV] by the .....[Insert the name of the Bidder or the Consortium Member] for the Project.

In view of the above, we hereby undertake to you and confirm that in the event of failure of .....[Insert the name of the Bidder or the Consortium Member] to invest in full or in part, in the equity share capital of .....[Insert the name of the SPV] as specified in the Bid, we shall invest the said amount not invested by.....[Insert the name of the Bidder or the Consortium Member] in .....[Insert the name of the SPV] by purchase of existing shares or subscribing to the new shares of .....[Insert the name of the SPV], as stipulated by you.

We have attached hereto certified true copy of the Board resolution whereby the Board of Directors of our Company has approved issue of this Undertaking by the Company.

All the terms used herein but not defined, shall have the meaning as ascribed to the said terms under the RFP.

Certified as true.

.....

**(Signature and Name of the authorized signatory of the Company and stamp)**

**Note:**

1. Wherever required, extract of the charter documents and documents such as a Board resolution should be submitted for verification.

## ANNEXURE 11 - FORMATS FOR BOARD RESOLUTIONS

**Format 1****Format of the Board resolution for the Bidding Company / each Member of the Consortium / investing Affiliate / Parent Company / Ultimate Parent Company, where applicable**

[Reference Clause 2.5.2 of the RFP and the illustrations in Annexure 11A]

[**Note:** The following resolution no.1 needs to be passed by the Boards of each of the entity/(ies) making equity investment]

The Board, after discussion, at the duly convened Meeting on ..... [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956/2013, passed the following Resolution:

**1. RESOLVED THAT** pursuant to the provisions of the Companies Act, 1956 / Companies Act 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for investment of.....% (.....per cent) of the total equity share capital of .....[**Insert the name of the SPV**] representing the entire amount proposed to be invested by the company for the transmission system under “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**”, partly by acquisition of the existing equity shares from .....[Insert the name of the BPC] and / or partly by subscribing to the new equity shares, as per the terms of the RFP.

[**Note:** Equity investment obligations by the Bidding Company/each Member of the Bidding Consortium/investing Affiliate or Parent or Ultimate Parent should add up to 100%.]

[**Note:** In the event the Bidder is a Bidding Consortium, the following Board resolution no. 2 also needs to be passed by the Lead Member of the Bidding Consortium]

**2. RESOLVED THAT** approval of the Board be and is hereby accorded to contribute such further amount over and above the ;..... percentage (\_\_\_%) limit to the extent becoming necessary towards the total equity share in the .....[**Insert the name of the SPV**], obligatory on the part of the company pursuant to the terms and conditions contained in the Consortium Agreement dated .....executed by the company as per the provisions of the RFP.

[**Note:** In the event, the investing entity is an Affiliate or Parent or Ultimate Parent of the Bidder, the following Board resolution no. 3 shall also be passed by the Bidder]

**3. FURTHER RESOLVED THAT** the Board hereby acknowledges the Board Resolution(s) passed by the..... [Name of the Affiliate(s)/ Parent / Ultimate Parent] regarding the investment of.....(....%) of the equity share capital requirements of .....[**Insert the name of the SPV**], which is to be invested by the .....[Name of the Affiliate(s)/ Parent / Ultimate Parent] for the .....[**Insert the name of the SPV**], partly by acquisition of the existing equity shares from \_\_\_\_\_[Name of BPC] and partly by subscribing to the new equity shares, as per the terms of the RFP.

[**Note:** The following resolution no. 4 is to be provided by the Bidding Company / Lead Member of the Consortium only]

4. FURTHER RESOLVED THAT MR/MS .....be and is hereby authorized to take all the steps required to be taken by the Company for submission of the Bid, including in particular, signing of the Bid, making changes thereto and submitting amended Bid, all the documents related to the Bid, certified copy of this Board resolution or letter or undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

Certified True Copy

Company rubber stamp to be affixed

**[Notes:**

- 1) This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole Time Director/ Manager (supported by a specific board resolution) of the Bidding Company or the Lead Member of Consortium.
- 2) The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution, i.e., the Bidding Company, each Member of the Bidding Consortium.
- 3) This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.]

**Format for the Board resolution of Technically / Financially Evaluated Entity / Ultimate Parent Company (in case credentials of such TEE/ FEE has been utilized by the Bidding Company or Bidding Consortium)**

The Board, after discussion, at the duly convened Meeting on ..... [Insert date], with the consent of all the Directors present and in compliance of the provisions of the Companies Act, 1956 / 2013, passed the following Resolution:

**RESOLVED THAT** pursuant to the provisions of the Companies Act, 1956 / Companies Act, 2013 (as the case may be) and compliance thereof and as permitted under the Memorandum and Articles of Association of the company, approval of the Board be and is hereby accorded for issuing an Undertaking to the BPC, in the format specified in the RFP issued by the BPC, draft of which is attached hereto and initialed by the Chairman whereby the company undertakes to invest .....percent (... %) of the total equity share capital of .....**[Insert the name of the SPV]** representing the entire amount proposed to be invested by .....[insert the name of the Bidder or Member] for the said Project, in case of failure of .....[Insert the name of the Bidder or Member] to make such investment".

**FURTHER RESOLVED THAT** .....,be and is hereby authorized to take all the steps required to be taken by the Company, including in particular, signing the said Undertaking, submitting the same to the BPC through .....[Insert name of Bidding Company/Lead Member of the Consortium] of all the related documents, certified copy of this Board resolution or letter, undertakings etc, required to be submitted to BPC as part of the Bid or such other documents as may be necessary in this regard.

### **Certified True Copy**

### **Company rubber stamp to be affixed**

#### **Note:**

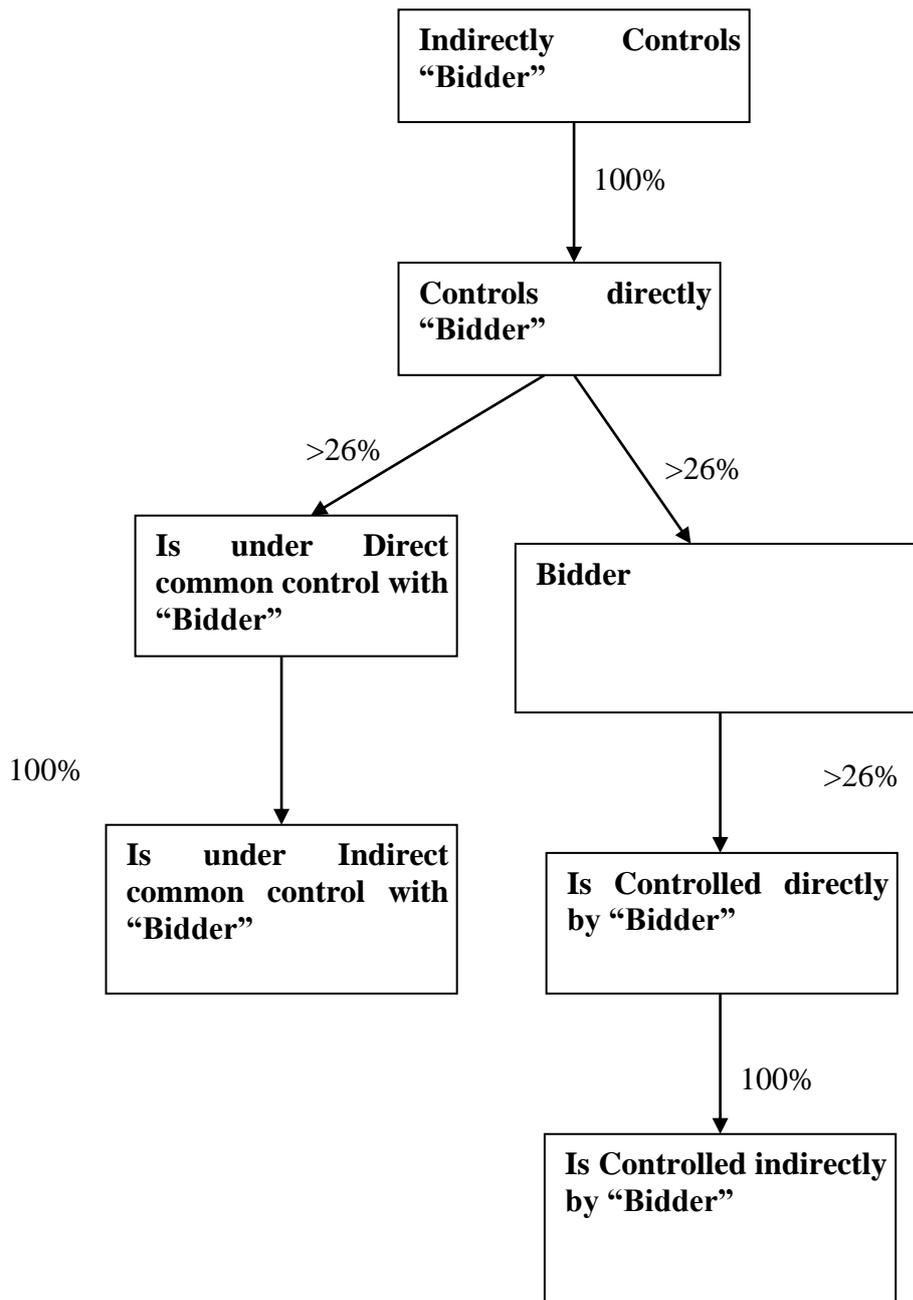
1. This certified true copy should be submitted on the letterhead of the Company, signed by the Company Secretary or any Whole-time Director/Manager (supported by a specific board resolution) of Bidding Company or Lead Member of the Consortium.
2. The contents of the format may be suitably re-worded indicating the identity of the entity passing the resolution.
3. This format may be modified only to the limited extent required to comply with the local regulations and laws applicable to a foreign entity submitting this resolution. For example, reference to Companies Act 1956 / Companies Act 2013 (as the case may be) may be suitably modified to refer to the law applicable to the entity submitting the resolution. However, in such case, the foreign entity shall submit an unqualified opinion issued by the legal counsel of such foreign entity, stating that the Board resolutions are in compliance with the applicable laws of the respective jurisdictions of the issuing company and the authorizations granted therein are true and valid.

**ANNEXURE 11A – ILLUSTRATION FOR APPLICABLE BOARD RESOLUTION REQUIREMENTS UNDER CLAUSE 2.5.2**

<b>Investor in the TSP</b>	<b>Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria</b>	<b>Applicable Board Resolutions</b>	<b>Requirement of Undertaking (Annexure 10)</b>
Bidder himself for 100% equity	None	a) Format 1 of Annexure 11 - Resolution: 1, 2 and 4 from the Bidder	None
Bidder himself for 100% equity	Affiliate and/or Parent Company and/or Ultimate Parent	<p>a) Format 1 of Annexure 11 - Resolution: 1, 2, and 4 from the Bidder</p> <p>b) Format 2 of Annexure 11 by either Technically/ Financially Evaluated Entity(ies) whose credentials have been used, or Ultimate Parent.</p> <p>Provided, if the Bidder himself is the Ultimate Parent, then Format 2 need not be provided.</p>	<p>Yes, by either Technically / Financially Evaluated Entity(ies) Affiliate(s) whose credentials have been used, or Ultimate Parent.</p> <p>Provided, if the Bidder himself is the Ultimate Parent, then the undertaking need not be provided.</p>
Bidder himself + others (Affiliate and/or Parent Company and/or Ultimate Parent) in aggregate holding 100% equity	None	<p>a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and4 from the Bidder.</p> <p>b) Format 1 of Annexure 11 - Resolution: 1 from the Affiliate and /or Parent and /or Ultimate Parent investing in the equity</p>	None
Bidder himself + others (Affiliate and/or Parent Company and/or Ultimate Parent) in aggregate	Affiliate and/or Parent Company and/or Ultimate Parent	<p>a) Format 1 of Annexure 11 - Resolution: 1,2, 3 and 4 from the Bidder.</p> <p>b) Format 1 of Annexure 11 - Resolution: 1 from the Affiliate and/or Parent and/or Ultimate Parent investing in the equity</p>	Yes, by either Parent/ Affiliate(s) whose credentials have been used, or Ultimate Parent

<b>Investor in the TSP</b>	<b>Entities (other than Bidder) whose credentials (financial and/or technical) used by the Bidder for meeting RFP criteria</b>	<b>Applicable Board Resolutions</b>	<b>Requirement of Undertaking (Annexure 10)</b>
holding 100% equity		c) Format 2 of Annexure 11 by either Parent / Affiliate(s) whose credentials have been used and /or Ultimate Parent investing in the equity	

## ANNEXURE 12 - FORMAT FOR ILLUSTRATION OF AFFILIATES



**NOTE:** Bidder to provide the illustration, as applicable in their case, duly certified by the Company Secretary and supported by documentary evidence in this regard.

## ANNEXURE 13 - FORMAT FOR DISCLOSURE

[On the letter head of Bidding Company / Each Member in a Bidding Consortium]

Date: .....

### DISCLOSURE

We hereby declare that the following companies with which we/ have direct or indirect relationship are also separately participating in this Bid process as per following details

S. No.	Name of the Company	Relationship
1.		
2.		
3.		

In case there is no such company please fill in the column “name of the company” as Nil.

Further we confirm that we don't have any Conflict of Interest with any other company participating in this bid process.

**Certified as True**

.....  
(Signature)

Name: .....

**Signature & Name of authorized signatory of the Company and Stamp**

The above disclosure should be signed and certified as true by the authorized signatory of the Bidding Company or of the Member, in case of a Consortium).

## ANNEXURE 14 - FORMAT OF THE BID BOND

**FORMAT OF THE UNCONDITIONAL AND IRREVOCABLE BANK  
GUARANTEE FOR BID BOND**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to  
place of execution.)**

In consideration of the ..... [Insert name of the Bidder] submitting the Bid inter alia for establishing the Inter-State transmission system for \_\_\_\_\_ [Name of Project] on build, own, operate and transfer basis, in response to the RFP dated \_\_\_\_\_ issued by \_\_\_\_\_ [Name of BPC], and the Bid Process Coordinator (hereinafter referred to as BPC) agreeing to consider such Bid of ..... [Insert the name of the Bidder] as per the terms of the RFP, the [Insert name and address of the bank issuing the Bid Bond, and address of the Head Office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to \_\_\_\_\_ [Name of BPC] or its authorized representative at \_\_\_\_\_ [Address of BPC] forthwith on demand in writing from \_\_\_\_\_ [Name of BPC] or any representative authorized by it in this behalf, any amount up to and not exceeding Rupees \_\_\_\_\_ Only (Rs \_\_\_\_\_ Crore), on behalf of M/s..... [Insert name of the Bidder].

This guarantee shall be valid and binding on the Guarantor Bank up to and including ..... [Date to be inserted on the basis of Clause 2.11 of this RFP] and shall not be terminable by notice or any change in the constitution of the Guarantor Bank or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between concerned parties.

Our liability under this Guarantee is restricted to Rupees \_\_\_\_\_ Only (Rs \_\_\_\_\_ Crore). Our Guarantee shall remain in force until ..... [Date to be inserted on the basis of Clause 2.11 of this RFP]. \_\_\_\_\_ [Name of BPC] or its authorized representative shall be entitled to invoke this Guarantee until ..... [Insert Date, which is three sixty five days (365) days after the date in the preceding sentence]. The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from \_\_\_\_\_ [Name of BPC] or its authorized representative, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to \_\_\_\_\_ [Name of BPC] or its authorized representative.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection, disputes, or disparities raised by the Bidder or any other person. The Guarantor Bank shall not require \_\_\_\_\_ [Name of BPC] or its authorized representative to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against \_\_\_\_\_ [Name of BPC] or its authorized representative in respect of any payment made hereunder.

This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

This BANK GUARANTEE shall not be affected in any manner by reason of merger, amalgamation, restructuring or any other change in the constitution of the Guarantor Bank.

This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly \_\_\_\_\_[Name of BPC] or its authorized representative shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against the Bidder, to make any claim against or any demand on the Bidder or to give any notice to the Bidder to enforce any security held by \_\_\_\_\_[Name of BPC] or its authorized representative or to exercise, levy or enforce any distress, diligence or other process against the Bidder.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees \_\_\_\_\_ Only (Rs \_\_\_\_ Crore) and it shall remain in force until ..... [Date to be inserted on the basis of Clause 2.11 of RFP], with an additional claim period of three hundred sixty five (365) days thereafter. We are liable to pay the guaranteed amount or any part thereof under this BANK GUARANTEE only if \_\_\_\_\_[Name of BPC] or its authorized representative serves upon us a written claim or demand.

In witness whereof the Bank, through its authorized officer, has set its hand and stamp on this..... day of ..... at.....

**Witness:**

1.....  
Name and Address

Signature: .....  
Name: .....

2. ....  
Name and Address

Designation with Stamp:

Signature .....

Attorney as per power of attorney

No.....

For:  
..... [Insert Name of the Bank]

**Banker's Stamp and Full Address:**

Dated this.....day of..... 20.....

**Notes:**

- 1. The Stamp Paper should be in the name of the Executing Bank.

~~ANNEXURE 14 A- FORMAT OF THE BID SECURITY DECLARATION [VALID  
TILL RFP ISSUED ON OR BEFORE 31.12.2021]~~

**ANNEXURE 15 - FORMAT FOR CONTRACT PERFORMANCE GUARANTEE**

**(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution.**

**Foreign entities submitting Bids are required to follow the applicable law in their country)**

In consideration of the ..... [Insert name of the SPV or Selected Bidder on behalf of SPV or Lead Member in case of the Consortium, with address] agreeing to undertake the obligations under the Transmission Service Agreement dated ..... and the other RFP Project Documents and the Nodal Agency and .....[Name of BPC], agreeing to execute the RFP Project Documents with the Selected Bidder, regarding setting up the Project, the.....[Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to the Nodal Agency at..... [Insert Place and Address of the Nodal Agency indicated in TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees.....Crores (Rs.....) only [Insert the amount of the bank guarantee] on behalf of M/s..... [Insert name of the Selected Bidder / SPV].

This guarantee shall be valid and binding on the Guarantor Bank up to and including .....and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rupees ..... Crores (Rs.....) only. Our Guarantee shall remain in force until..... [Insert the date of validity of the Guarantee as per Clause 2.12.1 of the RFP]. The Nodal Agency shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from the Nodal Agency, made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to the Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by \_\_\_\_\_[Name of SPV],..... [Insert name of the Selected Bidder], ..... [Insert name of the TSP] and/or any other person. The Guarantor Bank shall not require the Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against the Nodal Agency in respect of any payment made hereunder.

**This BANK GUARANTEE shall be interpreted in accordance with the laws of India.**

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

**This BANK GUARANTEE** shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

**This BANK GUARANTEE** shall be a primary obligation of the Guarantor Bank and accordingly the Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against \_\_\_\_\_[Name of SPV] or the Selected Bidder, to make any claim against or any demand on \_\_\_\_\_[Name of SPV] or the Selected Bidder, as the case may be, or to give any notice to \_\_\_\_\_[Name of SPV] or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against .....\_[Name of SPV] or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to the Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that the Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rupees .....Crores (Rs .....) only and it shall remain in force until [Date to be inserted on the basis of Article 3.1.2 of TSA], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by..... [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if the Nodal Agency serves upon us a written claim or demand.

**In witness where of:**

Signature.....

Name: .....

Power of attorney No.: .....

**For:**

..... [Insert Name of the Bank]

Banker's Seal and Full Address, including mailing address of the Head Office

**Notes:**

- 1. The Stamp Paper should be in the name of the Executing Bank.

## ANNEXURE 16 – FORMAT OF CHECKLIST FOR TECHNICAL BID SUBMISSION REQUIREMENTS

**[This format needs to be duly filled in, signed by the authorized signatory of the Bidder (Bidding Company / Lead Member in case of a Bidding Consortium) and submitted along with the Bidder’s Technical Bid]**

Technical Bid Submission Requirements	Response (Yes / No)
<ol style="list-style-type: none"> <li>1. Format for the Covering Letter on the letterhead of Bidding Company or Lead Member of the Consortium, as applicable;</li> <li>2. Format for Letter of Consent from each Consortium Member, including Lead Member, on their respective letterheads;</li> <li>3. Format for evidence of authorized signatory’s authority ;</li> <li>4. Board resolution from the Bidding Company / Lead Member of the Consortium in favour of the person executing the Power of Attorney as per <b>Annexure 3</b>;</li> <li>5. Power of Attorney from each Consortium Member in favour of Lead Member to be provided by each of the other Members of the Consortium as per <b>Annexure 4</b>;</li> <li>6. Board Resolution from each Member of the Consortium, other than the Lead Member, in favour of their respective authorized representatives for executing the POA, Consortium Agreement and signing of the requisite formats;</li> <li>7. Format for Bidder’s composition and ownership structure, along with status of equity holding (owning ten percent or more of the total paid up equity) not earlier than thirty (30) days prior to the Bid Deadline as per <b>Annexure 5</b>;</li> <li>8. Consortium Agreement duly signed as per <b>Annexure 6</b>, along with Appendix-1, indicating the responsibilities and obligations of each Member of the Consortium;</li> <li>9. Format for Qualification Requirement:               <ol style="list-style-type: none"> <li>a. Calculation sheets, detailing computation of Networth considered for meeting Qualifying Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / each Member in case of a Bidding Consortium / FEE in cases where credentials of FEE is taken;</li> <li>b. Calculation sheets, detailing computation of capital expenditure of projects and revenue received in construction projects considered for meeting Qualification Requirements, duly signed and stamped by the Statutory Auditor of the Bidding Company / Lead Member in case of Bidding Consortium / TEE in cases where credentials of TEE is taken;</li> </ol> </li> </ol>	

Technical Bid Submission Requirements	Response (Yes / No)
<p>c. Last financial year unconsolidated / consolidated audited annual accounts / statements, as the case may be, of the Financially Evaluated Entity / Technical Evaluated Entity</p> <p>d. Unconsolidated audited annual accounts of both the TEE and the Bidding Company/Lead member, as applicable, from the financial years in which financial closure was achieved till the financial year in which the said project was completed / commissioned.</p> <p>10. Copy of the Memorandum and Articles of Association and certificate of incorporation or other organizational document (as applicable), including their amendments, certified by the Company Secretary of Bidding Company or each Member in case of a Consortium including Lead Member.</p> <p>11. Attachment of <b>Annexure 7(D)</b>, detailing projects completed / commissioned and for which commercial operation has commenced including Executive Summary for each project.</p> <p>12. For each project listed in the attachment above, certified true copy of the certificates of final acceptance and / or certificates of good operating performance duly issued by owners or clients for the project, duly signed by authorized signatory in support of technical capability as defined in Clause 2.1.2 of RFP.</p> <p>13. Authority letter in favour of BPC from the Bidder/every Member of the Consortium authorizing the BPC to seek reference from their respective bankers &amp; others.</p> <p>14. Authorization from Parent / Affiliate of Bidding Company / Member of Bidding Consortium whose technical / financial capability has been used by the Bidding Company / Member of Bidding Consortium.</p> <p>15. Initialing of all pages of Technical Bid by the Authorized Signatory in whose favour the POA (<b>Annexure 3</b>) has been executed.</p> <p>16. Format for Illustration of Affiliates at the most seven (7) days prior to the Bid Deadline, duly certified by Company Secretary and supported by documentary evidence.</p> <p>17. Certified copy of the Register of Members / Demat Account Statement, Share Certificate, Annual Return filed with ROC etc. submitted as documentary evidence along with <b>Annexure 12</b>.</p> <p>18. Format for Disclosure by Bidding Company / each Member of the Consortium.</p> <p>19. Format for Affidavit by the Bidding Company / each Member</p>	

<b>Technical Bid Submission Requirements</b>	<b>Response (Yes / No)</b>
of the Consortium 20. Format for Authorization submitted in Non-Judicial stamp paper duly notarized. 21. Bidders Undertaking and details of Equity Investment 22. Proof of Payment of RFP Fees 23. Bid Bond/ <del>Bid Security Declaration (As applicable)</del> 24. Board Resolution as per Annexure 11 (If required)	

[**Note:** The checklist is not exhaustive. Bidders are required to submit all the information/documents as per requirement of RFP]

**For and on behalf of Bidder**

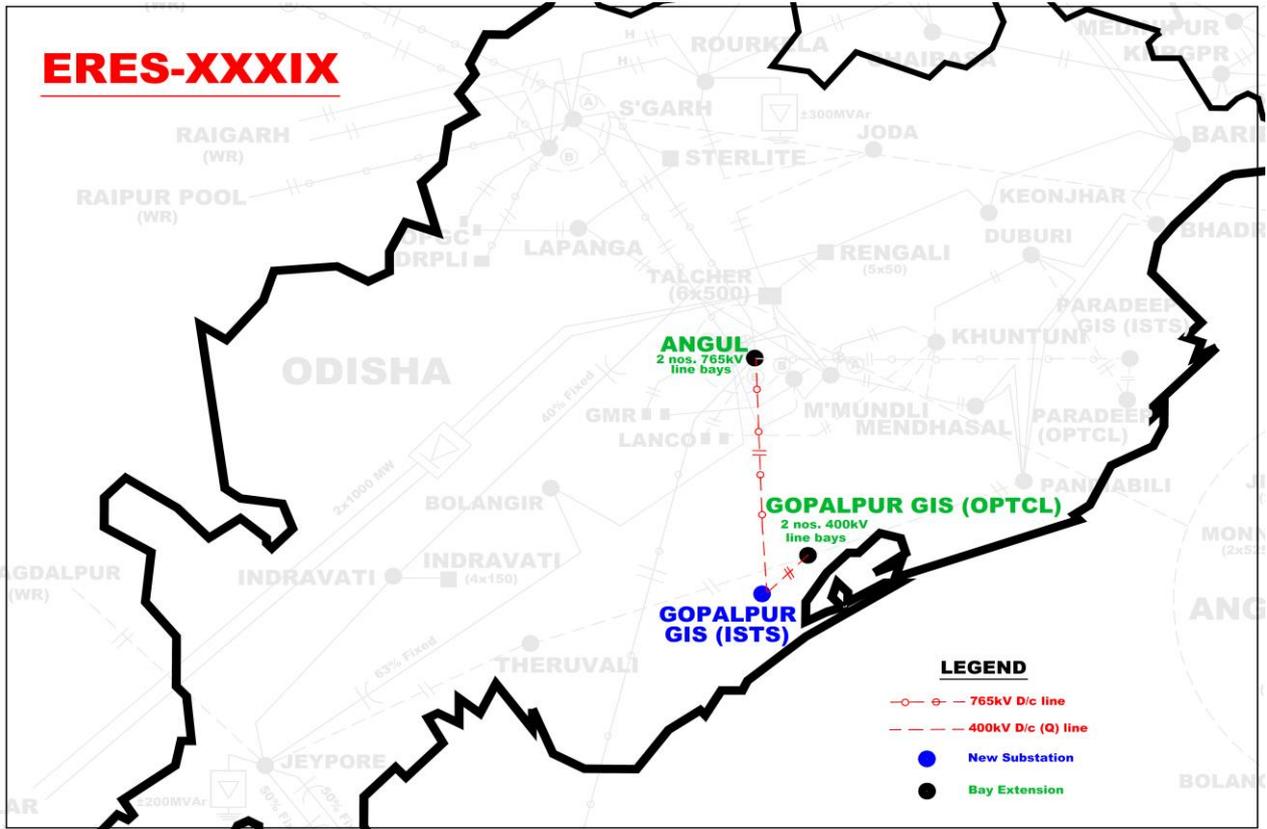
M/s. ....

.....  
**(Signature of authorized signatory)**

## **ANNEXURE 17 – LIST OF BANKS**

All Scheduled Commercial Banks as per Second Schedule of RBI Act-1934 and any amendments thereof.

ANNEXURE 18 - GRID MAP OF THE PROJECT



## ANNEXURE 19 - FORMAT FOR CLARIFICATIONS / AMENDMENTS ON THE RFP / RFP PROJECT DOCUMENTS

S. No.	Name of the Document	Clause No. and Existing provision	Clarification required	Suggested text for the amendment	Rationale for the Clarification or Amendment

Signature .....

Name.....

For

**Bidder's Rubber Stamp and Full Address.**

(Note: This format shall be used for submission of requests for clarifications/ amendments on the draft RFP Project Documents as per the provisions of Clause 2.3.1)

## **ANNEXURE 20 - LIST FOR RFP PROJECT DOCUMENTS**

**ENCLOSURE 1: TRANSMISSION SERVICE AGREEMENT (Provided separately)**

**ENCLOSURE 2: SHARE PURCHASE AGREEMENT (Provided Separately)**

## ANNEXURE 21 - FORMAT FOR FINANCIAL BID

[To be uploaded online]

### Quoted Transmission Charges .....

#### Notes

1. The Bidders are required to ensure compliance with the provisions of Clause 2.5.3 of this RFP.
2. Quotes to be in Rupees Millions and shall be up to two (2) decimal points.
3. The contents of this format shall be clearly typed.
4. The Financial Bid shall be digitally signed by the authorized signatory in whose name power of attorney as per Clause 2.5.2 is issued.
5. Ensure only one value for annual Transmission Charges is quoted. The same charge shall be payable every year to TSP for the term of TSA.

ANNEXURE 22 – FORMAT FOR AFFIDAVIT

[On non-judicial stamp paper. Foreign companies submitting bids are required to follow the applicable law in their country]

AFFIDAVIT

We [including any of our Affiliate and Consortium Member & any of its Affiliate], hereby declare that as on Bid Deadline:

- a. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate, their directors or key personnel have not been barred or included in the blacklist by any government agency or authority in India, the government of the jurisdiction of the Bidder or Members where they are incorporated or the jurisdiction of their principal place of business, any international financial institution such as the World Bank Group, Asian Development Bank, African Development Bank, Inter-American Development Bank, Asian Infrastructure Investment Bank etc. or the United Nations or any of its agencies; or
- b. the Bidder & any of its Affiliate including any Consortium Member & any of its Affiliate or their directors have not been convicted of any offence in India or abroad.

We further declare that following investigations are pending / no investigation is pending [strike off whichever is not applicable] against us [including any of our Consortium Member or Affiliate or Parent or Ultimate Parent or Affiliate] or CEO or any of our directors/ manager/key managerial personnel of the Applicant /Consortium Member or their Affiliates.

We further undertake to inform the BPC of any such matter as mentioned above on its occurrence after the date of this affidavit till the Effective Date.

We undertake that, in case, any information provided in relation to this affidavit is found incorrect at any time hereafter, our BID / Letter of Intent / contract (if entered) would stand rejected / recalled / terminated, as the case may be.

.....  
Signature and Name of the authorized signatory of the Company Bidding Company / Lead Member of the Bidding Consortium

.....  
(Signature of Notary Public)

Place: .....  
Date: .....

Note: In case any investigation is pending against the Applicant, including any Consortium Member or Affiliate, or CEO or any of the directors/ manager/key managerial personnel of the

Applicant /Consortium /Member or their Affiliates, full details of such investigation including the name of the investigating agency, the charge/offence for which the investigation has been launched, name and designation of persons against whom the investigation has been launched and other relevant information should be disclosed under this affidavit.

## ANNEXURE A

### Technical Details with respect to electronic bidding

#### Registration Methodology

In order to submit online bids in the e-bidding process for selection of Transmission Service Provider, interested Bidders are required to register themselves with the e-procurement website of MSTC Limited namely [www.mstcecommerce.com/eprochome/tsp/index.jsp](http://www.mstcecommerce.com/eprochome/tsp/index.jsp). To register with the website, the Bidder is required to fill up the online form available under the link Register as Vendor in the above website and fill up the same and click on Submit.

During this process, the bidder shall create his user id and password and keep note of the same. The bidder shall ensure that the secrecy of his user id and password is maintained at all time and he/she shall alone be responsible for any misuse of the user id and password.

The bidder may check the details entered by it before final submission. On successful submission of the online registration Form, the bidder shall receive a confirmation mail in the registered email address advising the bidder to submit the following documents.

- i. Self attested Income Tax PAN Card. In case of a registered Company or Firm, the Firm's PAN card and in case of a proprietorship firm, proprietor's personal PAN card is required. In case of partnership firm, PAN of the firm and that of the authorized partner are to be submitted.
- ii. Copy of the confirmation email Letter received from MSTC after successful completion of on-line registration..
- iii. A non refundable registration fee of Rs 10,000/- plus applicable GST to be paid online.

Please provide details of payment made like UTR No, remitting bank name, date of payment and amount in the covering letter.

The bidder shall have to submit all the above documents to MSTC Limited for verification and activation of their login ids. The bidders should send scanned copies of the above documents to the designated email id only which is given below.

[tsp@mstcindia.co.in](mailto:tsp@mstcindia.co.in)

It may be noted that bidders need not visit any of the offices of MSTC Limited for submission of the documents.

Contact persons of MSTC Limited:

**Mr. Setu Dutt Sharma, 7878055855**

Once the complete set of documents and requisite registration fee are received from a bidder, MSTC shall activate the bidder's login after verification / scrutiny of the documents. MSTC

Limited reserves the right to call for additional documents from the bidder if needed and the bidder shall be obliged to submit the same.

On completion of the above stated registration process, a bidder shall be able to login to MSTC's website.

<b>ANNEXURE B</b>
<b>Draft Pre-Award Integrity Pact</b>

**GENERAL**

This pre-bid contract Agreement (herein after called the Integrity Pact) is made on ..... day of the month of ..... 20....., between, on one hand, ..... [Insert name of BPC] through Shri ..... [Insert Name & designation of representative of BPC] (hereinafter called the "Bid Process Coordinator/ BPC", which expression shall mean and include, unless the context otherwise requires, his successors in the office and assigns) of the First Part and M/s ..... represented by Shri ..... [Insert Name & Designation of Authorized Signatory of the Bidder/ Lead Member of Consortium] (hereinafter called the "Bidder" which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the BPC is conducting the bidding process for selection of bidder as Transmission Service Provider (TSP) for transmission system under **“Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)”** who will be responsible to set up the transmission project on build, own, operate and transfer (BOOT) basis and to provide Transmission Service.

WHEREAS the Bidder is a Private Company/Public Company/Government Undertaking/ Partnership, constituted in accordance with the relevant law in the matter and the BPC is a Public Sector Undertaking (PSU) performing its function on behalf of the Ministry of Power, Government of India.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings during the complete bidding process with a view to:-

Enabling the BPC to select the bidder as TSP in conformity with the defined procedures by avoiding the high cost and the distortionary impact of corruption on public procurement, and

Enabling Bidder to abstain from bribing or indulging in any corrupt practice in order to emerge as selected bidder by providing assurance to them that their competitors will also abstain from bribing and other practices and the BPC will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

## **Commitments of BPC**

- 1.1 The BPC undertakes that no official of the BPC, connected directly or indirectly with the bidding process, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the bidding process in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 The BPC will, during the bidding stage, treat all bidders alike, and will provide to all bidders the same information and will not provide any such information to any particular bidder which could afford an advantage to that particular bidder in comparison to the other bidders.
- 1.3 All the officials of the BPC will report the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
- 2 In case of any such preceding misconduct on the part of such official(s) is reported by the Bidder to the BPC with the full and verifiable facts and the same is *prima facie* found to be correct by the BPC, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by the BPC and such a person shall be debarred from further dealings related to the bidding process. In such a case while an enquiry is being conducted by the BPC the proceedings under the bidding process would not be stalled.

## **Commitments of Bidder**

3. The Bidder commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre award stage in order to emerge as Selected Bidder or in furtherance to secure it and in particular commits itself to the following:-
  - 3.1 The Bidder will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BPC, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the bidding process in exchange for any advantage in the bidding, evaluation, contracting and implementation of the bidding process.

- 32 The Bidder further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the BPC or otherwise in bidding process or for bearing to do or having done any act in relation to bidding process or any other contract with the Government for showing or forbearing to show favour or disfavour to any person in relation to the bidding process or any other contract with the Government.
- 33 The Bidder shall disclose the name and address of agents and representatives and Indian Bidder shall disclose their foreign principals or associates.
- 34 The Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid .
- 35 The Bidder further confirms and declares to the BPC that the Bidder has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the BPC or any of its functionaries, whether officially or unofficially for selection of Bidder as TSP, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 36 The Bidder, either while presenting the bid or during pre-award negotiations or before signing the Share Purchase Agreement, shall disclose any payments he has made, is committed to or intends to make to officials of the BPC or their family members, agents, brokers or any other intermediaries in connection with the bidding process and the details of services agreed upon for such payments.
- 37 The Bidder will not collude with other parties interested in the bidding process to impair the transparency, fairness and progress of the bidding process.
- 38 The Bidder will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 39 The Bidder shall not use improperly, for purpose of competition or personal gain, or pass on to others, any information provided by the BPC as part of the business relationship, regarding plans, technical proposal and business details, including information contained in any electronic data carrier. The Bidder also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The Bidder commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The Bidder shall not instigate or cause to instigate any third person to commit any

of the actions mentioned above.

- 3.12 The Bidder shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the BPC.

#### **4 Previous Transgression**

- 4.1 The Bidder declares that no previous transgression occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify Bidder's exclusion from the bidding process.
- 4.2 The Bidder agrees that if it makes incorrect statement on this subject, Bidder can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

#### **5 Bid Bond (Security Deposit)**

- 5.1 Along with the technical bid, the Bidder shall submit Bid Bond for an amount of Rs. .... (as per the amount specified in Request for Proposal (RFP) Document) issued by ..... [Insert Name of the Banks from the list provided in RFP Document] as Earnest Money/Security Deposit, with the BPC.
- 5.2 The Earnest Money/Security Deposit shall be valid & retained by the BPC for such period as specified in the RFP Document.
- 5.3 No interest shall be payable by the BPC to the Bidder on Earnest Money/Security Deposit for the period of its currency.

#### **6 Sanctions for Violations**

- 6.1 Any breach of the aforesaid provisions by the Bidder or any one employed by it or acting on its behalf (whether with or without the knowledge of the Bidder) shall entitle the BPC to take all or anyone of the following actions, wherever required:-
- (i) To immediately call off the pre-award negotiations without assigning any reason or giving any compensation to the Bidder. However, the proceedings with the other Bidder (s) would continue.
  - (ii) The Bid Bond (in pre-award stage) shall stand forfeited either fully or partially, as decided by the BPC and the BPC shall not be required to assign any reason therefore.

- (iii) To immediately cancel the award, if already awarded, without giving any compensation to the Bidder.
- (iv) To cancel all or any other contracts with the Bidder. The Bidder shall be liable to pay compensation for any loss or damage to the BPC resulting from such cancellation/rescission.
- (v) To debar the Bidder from participation in any tender or RFP issued by any BPC for an indefinite period.
- (vi) To recover all sums paid in violation of this Pact by Bidder to any middleman or agent or broker with a view to securing the award.

62 The BPC will be entitled to take all or any of the actions mentioned at para 6.1 (i) to (vi) of this Pact also on the Commission by the Bidder or anyone employed by it or acting on its behalf (whether with or without the knowledge of the Bidder), of an offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

63 The decision of the BPC to the effect that a breach of the provisions of this Pact has been committed by the Bidder shall be final and conclusive on the Bidder. However, the Bidder can approach the Independent Monitor(s) appointed for the purposes of this Pact.

## **7. Independent Monitors**

7.1 The BPC has appointed Independent Monitors (hereinafter referred to as Monitors) for this Pact in consultation with the Central Vigilance Commission (Names and Addresses of the Monitors to be given).

7.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

7.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project/procurement, including minutes of meetings.

7.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the BPC.

7.6 The Bidder accepts that the Monitors has the right to access without restriction to all Project documentation of the BPC including that provided by the Bidder. The

Monitor shall be under contractual obligation to treat the information and documents of the Bidder /Subcontractors(s) with confidentiality. [As all the bid documents are with BPC only]

- 7.7 The BPC will provide to the Monitors sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the monitor the option to participate in such meetings.
- 7.8 The Monitor will submit a written report to the designated Authority of the BPC/Secretary in the Department within 8 to 10 weeks from the date of reference or intimation to him by the BPC / Bidder and, should the occasion arise, submit proposals for correcting problematic situations.

## **8 Facilitation of Investigation**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the BPC or its agencies shall be entitled to examine all the documents including the Books of Accounts of the Bidder and the Bidder shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

## **9 Law and Place of Jurisdiction**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the BPC.

## **10 Other Legal Actions**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the any extent law in force relating to any civil or criminal proceedings.

## **11 Validity**

- 11.1 The validity of this Integrity Pact shall be from date of its signing and upto 6 months from the date of transfer of project specific SPV i.e. signing of Share Purchase Agreement with BPC. In case Bidder is unsuccessful, this Integrity Pact shall expire after 15 days from the date of transfer of project specific SPV to successful bidder.
- 11.2 Should one or several provisions of this Pact turn out to be invalid, the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

12 The Parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_

<p><b>Bid Process Coordinator (BPC)</b></p> <p>Name of the Officer Designation Name of the BPC with address</p> <p>Witness:</p> <p>1. _____</p> <p>2. _____</p>	<p><b>BIDDER</b></p> <p>Name of Whole time Director/Authorized Signatory Name of the Bidder with address</p> <p>Witness:</p> <p>1. _____</p> <p>2. _____</p>
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## ANNEXURE C

### Technical Specifications of Transmission System

#### SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE

- A.1.0 The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations and MoP guidelines, as applicable, shall also be followed.
- A.2.0 Selection of tower type shall be made as per CEA Regulations, however in case lattice type towers are used, the following shall also be applicable:
- A.2.1 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.:
- A.2.2 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

- A.3.0 Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.
- A.4.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of high intensity winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.
- A.5.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.
- A.6.0 A) For power line crossing of 400 kV or above voltage level, large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.

- B) For power line crossing of 132 kV and 220 kV voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.
- C) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.
- D) For crossing of railway tracks, national highways and state highways, rules/regulations of appropriate authorities shall be followed.

A.7.0 The relevant conductor configuration shall be as follows: -

<b>Transmission line</b>	<b>ACSR Conductor specified</b>	<b>Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy</b>	<b>Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*</b>	<b>Sub-conductor Spacing</b>
765 kV D/C (Hexa Zebra) Transmission Lines	<b>Zebra</b> : Stranding 54/3.18 mm-Al + 7/3.18 mm-Steel, 428 mm <sup>2</sup> , Aluminium area, 28.62 mm diameter Maximum DC Resistance at 20°C (Ω/km): 0.06868 Minimum UTS: 130.32 kN	<b>Stranding details:</b> 61/3.19 mm, 28.71 mm diameter; 487.5 mm <sup>2</sup> Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.06815 Minimum UTS: 135.6 kN	<b>Stranding details:</b> 61/3.08mm, 27.72 mm diameter; 454 mm <sup>2</sup> Aluminium alloy area Maximum DC Resistance at 20°C (Ω/km): 0.0653 Minimum UTS: 108 kN	457 mm
400 kV D/C (Quad Moose) Transmission Lines	<b>Moose: Stranding</b> 54/3.53mm-Al + 7/3.53 mm-Steel, 31.77 mm diameter 528.5 mm <sup>2</sup> , Aluminium area, Maximum DC Resistance at 20°C	<b>Stranding details:</b> 61/3.55mm 31.95mm diameter; 604 mm <sup>2</sup> Aluminium alloy area Maximum DC	<b>Stranding details:</b> 61/3.31 mm 29.79 mm diameter; 525 mm <sup>2</sup> Aluminium alloy area Maximum DC	457 mm

Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
	( $\Omega/\text{km}$ ): 0.05552 Minimum UTS: 161.20 kN	Resistance at 20°C ( $\Omega/\text{km}$ ): 0.05506 Minimum UTS: 159.80 kN	Resistance at 20°C ( $\Omega/\text{km}$ ): 0.0566 Minimum UTS: 124.70 kN	

**Note:**

1. \*To select any size above the minimum, the sizes mentioned in the Indian standard IS-398 (part-6) shall be followed.
2. The transmission lines shall have to be designed for a maximum operating conductor temperature of 85 deg C.

A.8.0 The required phase to phase spacing and horizontal spacing for 765 kV and 400 kV line shall be governed by the tower design as well as minimum live metal clearances for 765 kV and 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 765 kV and 400 kV lines shall not be less than 15 m and 8 m respectively.

A.9.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

**I. Minimum live metal clearances for 765 kV line:**

a) (i) Under stationary conditions

From tower body:      For 765 kV D/C: 6.1 m  
   For 765 kV S/C: 5.6 m

(ii) Under swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (25°)	4.4 m
b) Swing angle (55°)	1.3 m

b) Minimum ground clearance for 765 kV line: 18 m

c) Minimum mid span separation between earth wire and conductor for 765 kV line: 9.0 m

**II. Minimum live metal clearances for 400 kV line:**

a) (i) Under stationary conditions:

**From tower body: 3.05 m**

**(ii) Under Swing conditions**

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (22°)	3.05 m
b) Swing angle (44°)	1.86 m

b) Minimum ground clearance for 400 kV line: 8.84 m

c) Minimum mid span separation between earthwire and conductor for 400 kV line: 9.0 m

A.10.0 Shielding angle shall not exceed 10 deg for 765 kV D/C and 20 deg for 400 kV transmission line.

A.11.0 The Fault current for design of line shall be 50 kA for 1 sec for 765 kV and 63 kA for 1 sec for 400 kV.

A.12.0 In case of 765 kV and 400 kV voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of galvanized standard steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR) conductor type or any other suitable conductor type depending upon span length and other technical consideration.

A.13.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance at tension tower for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.

A.14.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.

A.15.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line.

A.16.0 Wherever, transmission lines are passing through cyclone prone areas i.e. areas up

to 60 km from coast following shall also be applicable:

- a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction which also includes open sea coasts, open stretch of water, desert and flat treeless plains.
- b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.
- c) The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.

A.17.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:

- a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m<sup>2</sup> of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/ m<sup>2</sup> of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.
- b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330 kg/m<sup>3</sup>.
- c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m<sup>2</sup> per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).
- d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.
- e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.

A.18.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/

logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).

- A.19.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line up to 400 kV level which are installed in protected areas shall be designed for Multi-circuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.
- A.20.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.
- A.21.0 Safety precautions in regards to gas/oil pipe lines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.

## SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION

The proposed Gopalpur substation shall be Gas Insulated Switchgear (GIS) type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

Extension of 765 kV Angul substation shall be conventional AIS type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

All other CEA Regulations/guidelines as amended up to date and MoP guidelines shall also be followed.

### **B.1.0 Salient features of Substation Equipment and Facilities**

The design and specification of substation equipment are to be governed by the following factors:

#### **B.1.1 Insulation Coordination**

The system design parameters for substations/switchyards shall be as given below:

SI No	Description of parameters	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV System	400 kV System	765 kV System	400 kV System
1.	System operating voltage	765 kV	400 kV	765 kV	400 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	800 kV	420 kV
3.	Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz
4.	No. of phases	3	3	3	3
5.	Rated Insulation levels				
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.)				
	- for Equipment other than Transformer and Reactors	2100 kVp	1425 kVp	2100 kVp	1425 kVp
	- for Insulator String	2100 kVp	1550 kVp	2100 kVp	1550 kVp

SI No	Description of parameters	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV System	400 kV System	765 kV System	400 kV System
ii)	Switching impulse withstand voltage (250/2500 micro sec.) dry and wet	1425 kVp	1050 kVp	1550 kVp	1050 kVp
iii)	One minute power frequency dry withstand voltage (rms)	830 kV (AIS) 960 kV (GIS)	630 kV (AIS) 650 kV (GIS)	830 kV	630 kV (AIS) 650 kV (GIS)
6.	Corona extinction voltage	508 kV	320 kV	508 kV	320 kV
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	2500 microvolts at 508 kV rms	1000 microvolts at 266 kV rms	2500 microvolts at 508 kV rms	1000 microvolts at 266 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	24800 mm (31mm/kV)	13020 mm (31mm/kV)	24800 mm (31mm/kV)	13020 mm (31mm/kV)
9.	Minimum creepage distance for switchyard equipment	24800 mm (31mm/kV)	13020 mm (31mm/kV)	24800 mm (31mm/kV)	13020 mm (31mm/kV)
10.	Max. fault current	50 kA	63 kA	50 kA	63 kA
11.	Duration of fault	1 sec	1 sec	1 sec	1 Sec

### B.1.2 Switching Scheme

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	765 kV side	400 kV side	220 kV side (Future)
765/400 kV Gopalpur (GIS) s/s	One and half breaker	One and half breaker	Double Main
Extn. of 765 kV Angul S/s (AIS)	One and half breaker	--	--

Notes: -

- (i) *For one and half breaker switching scheme, any double circuit line consisting of two numbers feeders and originating from a transmission or generating switchyard shall not be terminated in one diameter.*
- (ii) *Transformers and bus reactors of same HV rating shall be placed in different diameters (i.e. transformers of same HV rating shall not be in the same diameter and similarly bus reactors of same HV rating shall also not be in the same diameter).*
- (iii) *GIS substation with the bus scheme as One and Half breaker scheme, the diameters (diameter is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling of 2 numbers of feeders).*
- (iv) *In case of GIS substation where the bus scheme is One and Half breaker scheme, the diameters shall be complete with feeder/line side isolator to be used for any future line with switchable line reactor bay and GIS duct of the future bay shall be brought outside the GIS hall/building with extension/interface module suitably.*
- (v) **Bay configuration at Gopalpur s/s :**  
 765 kV: TSP shall implement 3 nos. diameters with following bay configuration:
  - a. Line- Tie- ICT – 1 no.
  - b. Line- Tie- Bus Reactor- 1 no.
  - c. ICT- Tie- Bus Reactor- 1 no.
 400 kV: TSP shall implement 3 nos. diameters with following bay configuration:
  - a. Line- Tie- ICT – 1 no.
  - b. Line- Tie- Bus Reactor- 1 no.
  - c. ICT- Tie- Bus Reactor- 1 no.
- (vi) *Connection arrangement of Switchable Line reactors shall be such that it can be used as Line reactor as well as Bus reactor with suitable NGR bypass arrangement.*
- (vii) **Extn. of 765 kV Angul s/s:** *Single Line Diagram is attached with the RfP. Associated Tie Bay shall also be under the present scope. TSP shall also keep space provision for an Auxiliary switching scheme for the installation of future Line Reactors.*

**B.2.0 Substation Equipment and facilities (Voltage level as applicable):**

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

Sl. No	Description of bay	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV	400 kV	765 kV	400 kV

Sl. No	Description of bay	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV	400 kV	765 kV	400 kV
1.	Bus Bar	4000 A	4000 A	Quad bull	As per existing
2.	Line bay	3150 A	3150 A	3150 A	3150A
3.	ICT bay	3150 A	3150 A	3150 A	--
4.	Bus Reactor bay	3150 A	3150 A	--	--
5.	Switched Line Reactor Bay	3150 A	--	--	--

## B.2.1 Power Transformers

### B.2.1.1 (765/√3)/(400/√3)/33 kV Single Phase Autotransformer

500 MVA (765/√3)/(400/√3)/33 kV, 1-phase autotransformer (including arrangement for 3-phase bank formation of 1500 MVA) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)" as amended up to date, available on CEA website.

Spare transformer (1-phase) unit shall be placed and connected in such a way that in case of fault in any unit of any of the transformer banks (including for future transformer banks) can be replaced by spare unit without physically moving it.

## B.2.2 Shunt Reactors

### B.2.2.1 (765/√3) kV Single Phase Shunt Reactor 110 MVAR 765/√3 kV, 1-phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)" as amended up to date, available on CEA website.

Spare 1-phase unit of 110 MVAR, 765/√3 Shunt Reactor shall be placed and connected in such a way that the spare unit can be utilized for all the bus and switchable line reactor banks (including for future reactor banks) without its physical movement.

### **Neutral Grounding Reactor and Surge Arrester for 765 kV Line Reactors (as applicable):**

The neutral of the line reactors (wherever provided) shall be grounded through adequately rated Neutral Grounding Reactors (NGR) to facilitate single phase auto-reclosure, provided that the NGR shall be provided with suitable bypass arrangement so that the line reactor can be used as Bus reactor as and when required. The neutral of bus reactor shall be solidly grounded.

NGR shall be oil filled or dry type air core for outdoor application. NGR shall conform to CEA's "Standard Specifications and Technical Parameters of Transformers and Reactors (66 kV and above voltage class)" as amended up to date. Technical parameters of NGR shall be as specified in Annexure-A of the above mentioned document.

The surge arresters (rated voltage of arrester in co-ordination with ohmic value of NGR shall be decided by the TSP) shall be provided and physically located between the neutral of shunt reactor (brought out at 145 kV class bushing) and neutral grounding reactor. The surge arresters shall be of heavy duty station class gapless Metal oxide (ZnO) type conforming in general to IEC-60099-4. Arresters shall be hermetically sealed units, of self-supporting construction, suitable for mounting on structures.

Sl. No.	Line Name	NGR Value
1.	330 MVAR switchable line reactor on each circuit of Angul – Gopalpur 765 kV D/c line at Gopalpur end	500 Ohm

### **B.2.2.2 420 kV, 3-Phase, Shunt Reactor**

125 MVAR, 420 KV, 3-Phase Reactor shall conform to CEA’s “Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)” as amended up to date, available on CEA website.

### **B.2.3 765 kV and 400 kV GIS Substation equipment**

GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203. The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All the switchgear such as Circuit Breaker, isolator, earth switch including CT, PT etc. shall be GIS type. The Surge Arrester and Voltage Transformer shall be either GIS or outdoor AIS type.

The GIS assembly shall consist of separate modular compartments e.g. Circuit Breaker compartment, Bus bar compartment filled with SF<sub>6</sub> Gas and separated by gas tight partitions so as to minimize risk to human life, allow ease of maintenance and limit the effects of gas leaks failures and internal arcs etc. These compartments shall be designed to minimize the risk of damage to adjacent sections and protection of personnel in the event of a failure occurring within the compartments. Rupture diaphragms with suitable deflectors shall be provided to prevent uncontrolled bursting pressures developing within the enclosures under worst operating conditions, thus providing controlled pressure relief in the affected compartment. The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays. The layout of Gas Insulated Bus Ducts shall be properly planned to optimize the length of bus ducts and for easy accessibility for maintenance. The length of busbars, bus

ducts, isolator sections shall be optimized considering effects of fast transient voltage due to isolator operations.

The bus bar modules including auxiliary bus modules (wherever applicable) shall be provided with a suitable End Piece (Interface) module with the test link facility for future extension on both sides as per provisions of future requirements. The end piece module shall be designed in such a way so that future GIS modules may be tested without extending test voltage to existing bus and vice-versa by removing the test link.

TSP shall make available the complete details for the design of interface module such as cross section, enclosure material, enclosure dimensions (inner and outer), Flange diameter (inner and outer), conductor cross-section and connection arrangement, bolt spacing and dimension, rated gas pressure, Gasket detail etc. Further, adequate space for GIS busbar interface module shall be taken into account for future scope.

Each section shall have plug-in or easily removable connection pieces to allow for easy replacement of any component with the minimum disturbance to the remainder of the equipment. Inspection windows (View Ports) shall be provided for Disconnectors Switches and both types of earth switches i.e. Maintenance and fast operating.

Local control cabinets (LCC) shall be provided as per requirement. The alarm and annunciation of GIS equipment shall be wired to the SCADA System.

The material and thickness of the enclosures shall be such as to withstand an internal flashover without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF<sub>6</sub> breakdown under arcing conditions. This shall be validated with Type Test.

### **Service continuity requirement for GIS:**

The GIS equipment with the given bus switching arrangement shall be divided into different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartments may need to be de-gassed.

TSP shall meet the following Service continuity conditions (to the extent possible) with ensuring equipment and operating personnel's safety:

- For One and half breaker bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar and feeder is permitted out of service during maintenance and repair/replacement.

- During a fault in a GIS compartment other than Circuit Breaker compartment, maximum of one bus bar and/or one feeder is permitted out of service during maintenance and repair/replacement.

## **UHF sensors in GIS for PD (Partial Discharge) detection:**

The adequate number of Ultra High Frequency (UHF) sensors shall be provided in the offered GIS along with suitable portable type Partial Discharge (PD) measuring instrument for detection of Partial discharge (of 5 pC and above as per IEC 60270). The number and location of these sensors shall be based on laboratory test on the typical design of GIS as per recommendations of CIGRE Document No. 654 (Application Guide for sensitivity verification for UHF Partial discharge detection system for GIS).

### **B.2.3.1 Circuit Breakers (GIS)**

GIS Circuit breakers shall in general be of C2-M2 class and comply with IEC-62271-100. The rated break time shall not exceed 40 ms (milli second) for 765 kV and 400 kV. Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker shall have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 765 kV lines shall be provided with pre-insertion closing resistor of about 450 ohms with 9 ms insertion time or Controlled Switching Device (CSD). The Circuit breakers controlling 400 kV lines wherever required shall be provided with pre-insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. Controlled switching device shall be provided in the Circuit Breaker of the switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformers of 400 kV and above voltage class.

### **B.2.3.2 Isolators (GIS)**

The isolators shall comply to IEC 62271-102 in general. Earth switches shall be provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All isolators and earth switches shall be motor operated type.

The isolator shall be of extended mechanical endurance class-M2 and suitable for Bus Transfer Current Switching duty as per IEC standards. High speed earthing switches shall be provided for grounding purposes at overhead line terminations and cable terminations and shall have fault making capability as specified. Earth switch for line isolator shall be of earthing switch class E1 and shall be suitable for induced current switching duty as defined for Class-B as per relevant standard.

### **B.2.3.3 Current Transformers (GIS)**

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) shall have five cores (four for protection and one for metering) whereas; CT in Tie bays shall have six cores (four for protections and two for metering) suitably distributed on both sides of CB (for 400 kV and above voltage class). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy.

The instrument security factor shall be less than 5 for CTs up to 400 kV voltage class and less than 10 for CTs of 765 kV voltage class.

### **B.2.3.4 Voltage Transformer (GIS)**

The voltage transformers shall conform to IEC-61869. Voltage transformers shall be of electromagnetic type with SF<sub>6</sub> gas insulation. The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box. The voltage transformers shall be located as a separate bay module and will be connected phase to ground and shall be used for protection, metering and synchronization. The voltage transformers shall be of inductive type, nonresistant and shall be contained in their own-SF<sub>6</sub> compartment, separated from other parts of the installation. The voltage transformer shall be effectively shielded against high frequency electromagnetic transients. The voltage transformer shall have three secondary windings out of which two shall be used for protection and one for metering. The voltage transformer should be thermally and dielectrically safe when the secondary terminals are loaded with the guaranteed thermal burdens. The accuracy class for protection cores shall be 3P. The accuracy of 0.2 on metering core should be maintained throughout the entire burden range on all the three windings without any adjustments during operation. The rated burden of cores shall be closer to the maximum burden requirement of the metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

### **B.2.3.5 Surge Arresters (GIS)**

624 kV and 336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 13 kJ/kV and 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 800 kV and 420 kV system respectively. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances near transformers and reactors so as to achieve proper insulation coordination. Surge Arresters shall be

provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

### **B.2.3.6 SF<sub>6</sub> to Air Bushing**

Outdoor bushings, for the connection of conventional external conductors to the SF<sub>6</sub> metal enclosed switchgear, shall be provided. Bushings shall generally be in accordance with the requirements of IEC-60137. The creepage distance over the external surface of outdoor bushings shall not be less than 31 mm/kV. SF<sub>6</sub> to air Bushing shall be of Polymer / composite type and shall be robust and designed for adequate cantilever strength to meet the requirement of seismic conditions. The electrical and mechanical characteristics of bushings shall be in accordance with IEC-60137. Polymer/composite insulator shall be seamless sheath of silicon rubber compound. The housing and weather sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. The hollow silicon composite insulators shall comply with the requirements of IEC 61462 and the relevant parts of IEC-62217.

## **B.2.4 765 kV and 400 kV AIS Substation equipment (as applicable)**

### **B.2.4.1 Circuit Breakers (AIS)**

The circuit breakers and accessories shall conform with IEC: 62271-100, IEC: 62271-1 and shall be of SF<sub>6</sub> Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike probability during capacitive current breaking and mechanical endurance. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The rated break time shall not exceed 40 ms for 765 kV circuit breakers. 765 kV Circuit breakers shall be provided with single phase and three phase auto reclosing. The Circuit breakers controlling 765 kV lines shall be provided either with pre-insertion closing resistor of about 450 ohms maximum with 9 ms minimum insertion time or with Controlled Switching Device. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. Control switching device shall be provided in Circuit Breaker of switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformers of 400 kV and above voltage class.

### **B.2.4.2 Isolators (AIS)**

The isolators shall comply with IEC 62271-102 in general. 765 kV isolator design shall be double break or vertical break or knee-type. All Isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 765 kV shall be of extended mechanical endurance class-M2 and suitable for bus transfer current switching duty as per IEC-62271-102. Main blades and earth blades shall be interlocked and interlock shall be fail safe type.

765 kV earth switch for line isolator shall be suitable for induced current switching duty as defined for Class-B.

#### **B.2.4.3 Current Transformers (AIS)**

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 765 kV shall have six cores (four for protection and two for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than 10 for CTs of 765 kV voltage class.

#### **B.2.4.4 Capacitive Voltage Transformers (AIS)**

Capacitive Voltage transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. Accuracy class for protection cores shall be 3P and for metering core it shall be 0.2. The Capacitive voltage transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 765 kV shall be 8800 pF. The Capacitance of CVT for 400 kV shall be of 4400/8800 pF depending on PLCC requirements. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

#### **B.2.4.5 Surge Arresters (AIS)**

624 kV and 336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 13 kJ/kV and 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 800 kV and 420 kV system respectively. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances near transformers and reactors so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

#### **B.2.5 Protection Relaying and Control System**

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC

61850 protocol with RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

## a) **Transmission Lines Protection**

765 kV and 400 kV lines shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 765 kV and 400 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential relay (with back up distance protection feature) as Main-I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fibre Optic communication link. Differential relay at remote end shall be provided by the TSP. Associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owner.

Further, all 765 kV and 400 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 765 kV and 400 kV lines shall also be provided with two stages over voltage protection. Over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 765 kV and 400 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

## b) **Auto Transformer Protection**

These shall have the following protections:

- i) Numerical Differential protection
- ii) Numerical Restricted earth fault protection
- iii) Numerical Back-up Over-current and earth fault protection on HV and IV side
- iv) Numerical Over fluxing protection on HV and IV side

v) Numerical Overload alarm

Further, Numerical Back-up Over-current and earth fault protection on HV and IV side of autotransformer shall not be combined with other protective functions in the main relays and shall be independent relays. Besides these, power transformers shall also be provided with Buchholz relay, Magnetic oil Gauge (MOG) with low oil level alarm, protection against high oil and winding temperature and pressure relief device etc.

Suitable monitoring, control (operation of associated circuit breaker and isolator) and protection for LT auxiliary transformer connected to tertiary winding of auto-transformer for the purpose of auxiliary supply shall be provided. The Over current and other necessary protection shall be provided for the auxiliary transformer. These protection and control may be provided as built in feature either in the bay controller to be provided for the auxiliary system or in the control and protection IEDs to be provided for autotransformer.

**c) 765 kV and 400 kV Reactor Protection**

Reactor shall be provided with the following protections:

- i) Numerical Differential protection.
- ii) Numerical Restricted earth fault protection
- iii) Numerical Back-up impedance protection

Besides these, reactors shall also be provided with Buchholz relay, MOG with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

**d) Bus bar Protection**

The high speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 765 kV and 400 kV buses. Duplicated bus bar protection is envisaged for 765 kV and 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security.

The scheme shall have complete bus bar protection for present as well as envisaged future bays i.e. input / output modules for future bays for the bus sections under present scope and PUs shall be provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

For existing substations, the existing bus bar protection shall be augmented as per requirement.

## e) **Local Breaker Back up Protection**

This shall be provided for each 765 kV and 400 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

*Notes:*

1. *LBB and REF relays shall be provided separately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however, in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*

## **B.2.6 Substation Automation System**

- a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation system, where the controls shall be provided through Bay control units. The Bay control unit is to be provided bay wise for voltage level 400 kV and above. All bay control units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in Substation Automation System.

At new substations, the Substation Automation System (SAS) shall be suitable for operation and monitoring of the complete substation including proposed future bays/elements.

In existing substations with Substation automation system (SAS), augmentation of existing SAS shall be done for bays under present scope.

In existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

**b) Time synchronisation equipment**

Time synchronization equipment complete in all respect including antenna, cable, processing equipment required to receive time signal through GPS or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

**B.3.0 Substation Support facilities**

Certain facilities required for operation and maintenance of substations as described below shall be provided at new substation. In existing substation, these facilities have already been provided and would be extended/ augmented as per requirement.

**B.3.1 AC and DC power supplies**

For catering the requirements of three phase and single-phase AC supply and DC supply for various substation equipment, the following arrangement is envisaged: -

- (i) For LT Supply at each new Substation, two (2) nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33 kV tertiary of 765/400 kV Transformer for drawing auxiliary supply at new substation. Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33 kV tertiary of 765/400/33 kV Transformer by local SEB/DISCOM for energy accounting.

- (ii) 2 sets of 220 V battery banks for control and protection and 2 sets of 48 V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.

At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

- (iii) Suitable AC and DC distribution boards and associated LT Switchgear shall be provided at new substation.
- (iv) For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:
  - (a) 415 V Main Switch board – 1 no.
  - (b) AC distribution board – 1 no.
  - (c) Main lighting distribution board – 1 no.
  - (d) Emergency lighting distribution board – 1 no.
  - (e) 220 Volt DC distribution board – 2 nos.
  - (f) 48 Volt DC distribution board – 2 nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present and future bays. AC and DC distribution boards shall have modules for all the feeders (including future as specified).

- (v) At new Substation, one no. of DG set (minimum 500 kVA for substations with highest voltage rating as 765 kV) shall be provided for emergency applications.
- (vi) At new substation, sizing of battery and battery charger shall be done based on the number of bays specified (including future bays).

## **B.3.2 Fire Fighting System**

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

Optical Beam type heat detection for GIS hall fire protection system shall be provided for all the GIS halls.

At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

### **B.3.3 Oil evacuating, filtering, testing and filling apparatus**

To monitor the quality of oil for satisfactory performance of transformers, shunt reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

### **B.3.4 Illumination**

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

Lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

### **B.3.5 Control Room**

For new substation, substation control room shall be provided to house substation work stations for station level control (SAS) along with its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional

requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from control room for all the future bays also.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

### **B.3.6 GIS hall**

The Gas Insulated Switchgear (GIS) of each voltage level along with other associated equipment shall be housed inside the GIS building. Independent single storeyed GIS building shall be provided for each voltage class. The panels i.e. Bay level units, bay mimic, relay and protection panels, RTCC panels, PLCC panels, panels for telecommunication system etc. are to be placed in a separate room in the GIS building. The size of the room shall be such that all the panels for the bays under present scope shall be accommodated. The panel room shall be air-conditioned. Further, the temperature of the room shall be monitored through substation automation system by providing necessary temperature transducers. Ventilation system of suitable capacity shall be provided for each GIS hall.

One EOT Crane of suitable capacity for erection and Maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special requirements for erection and maintenance of GIS equipment. The capacity of the crane shall be sized to lift the heaviest GIS switchgear component.

Further, both the 765kV & 400kV GIS building shall be suitable for expansion such that future adjacent GIS bays can be installed from either side of GIS building as per layout requirement.

### **B.3.7 Control Concept**

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

### **B.3.8 Visual monitoring system (VMS) for watch and ward of substation premises:**

Visual monitoring system for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera

shall be high definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

At existing substations, the visual monitoring system if available shall be augmented as per existing or better specification as required.

## **B.4 General Facilities**

- a) Line Gantry/Towers are envisaged for bays under present scope only. However, for adjacent future line bay, tower shall be designed for extension (considering Quad conductors for 765 kV and 400 kV future lines) wherever applicable.
- b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirement/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.
- c) TSP has to arrange for construction power and water on its own.
- d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 g/m<sup>2</sup> and 900 g/m<sup>2</sup> for coastal/ creek regions.
- e) In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future bay shall be designed considering the current rating of line bay i.e. 3150 A.
- f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of complete substation area including future switchyard area to prevent

encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from finished ground level (FGL).

- g) All electrical equipment shall be installed above the Highest Flood Level and where such equipment is not possible to be installed above the Highest Flood Level, it shall be ensured that there is no seepage or leakage or logging of water.

## B.5 EXTENSION OF EXISTING SUBSTATION

The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder.

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.
<b>A.</b>	<b>765 kV Angul s/s</b>		
1.0	Single Line Diagram	C/ENGG/ER/ANGUL/ ERESXXXIX /SLD/01	00
2.0	General Arrangement	C/ENGG/ER/ANGUL/ERESXXXIX/GA/01	00
3.0	Visual Monitoring System	Make: Nice Vision Camera Model: Sony	--
4.0	Bus Bar Protection	Make: Siemens Model: 7SS522	--
5.0	Substation Automation System (SAS)	Make: Siemens, Model: SICAM PAS	--
<b>B.</b>	<b>400 kV Gopalpur (OPTCL) s/s</b>		
1.0	Single Line Diagram	<b>To be obtained from OPTCL</b>	
2.0	General Arrangement		
3.0	Visual Monitoring System		
4.0	Bus Bar Protection		
5.0	Substation Automation System (SAS)		

Bidders are also advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage etc. and also the design philosophy.

**SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION**

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, and CEA (Cyber Security in Power Sector) Guidelines, 2021, all above documents as amended from time to time.

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

The communication services viz. SCADA, VoIP, PMU, AGC and AMR (wherever applicable) have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of the station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs.

The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide following requirements:

**C.1.0 Establishment of Gopalpur 765/400 kV, 2x1500 MVA GIS substation.**

- (i) TSP shall supply, install and commission 1 no. FODP (96 F) along with panel and approach Cables (24F) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.
- (ii) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment along with panel/s supporting minimum four directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any) at Gopalpur 765 kV S/s. Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among Gopalpur 765 kV, Gopalpur(OPTCL) and

Angul(POWERGRID) S/s. TSP to also provide suitable optical interfaces/equipment at Angul and Gopalpur(OPTCL) Substations FOTE to meet link budget requirement for connectivity with Gopalpur 765 kV Station if required. The suitable DC Power Supply and backup to be provided for communication equipment.

- (iii) FODP and FOTE equipment with panels shall be provided in Control Room of Gopalpur 765 kV S/s. FOTE and FODP can be accommodated in same panel to optimize space.
- (iv) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.
- (v) TSP shall supply, install and commission Firewall in redundant mode (1+1) in line with the specification attached at **Annexure F.1**.
- (vi) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMUs, DCPS along with Battery Bank and Firewall shall be the responsibility of TSP.

*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.*

### **C.2.0 (Angul (POWERGRID) – Gopalpur 765 kV D/c line**

On Angul (POWERGRID) – Gopalpur 765 kV D/c line(205 km), TSP shall supply, install and commission One (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earthwire on other E/W peak.

The TSP shall install this OPGW from gantry of Angul (POWERGRID) up to the gantry of Gopalpur 765 kV S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 205 kms which can be managed as a repeater less link, however after survey line length may exceed from 205 kms. To meet link budget requirement of Angul (POWERGRID) – Gopalpur 765 kV link (including service loops and sag etc.) repeater may be required to be provided by TSP.

TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per Appendix-F.1.

Maintenance of OPGW Cable, repeater if any and OPGW Hardware shall be the responsibility of TSP.

Maintenance of OPGW Cable, OPGW Hardware and repeater equipment and items associated with repeater shelter shall be responsibility of TSP.

**C.3.0 Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS:- 2 nos. of 765 kV GIS/Hybrid line bays (along with space for future switchable line reactor)**

- (I) TSP shall supply, install and commission 1 no. FODP (72 F or higher) along with panel and required approach Cables (24F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.
- (II) TSP shall supply, install and commission One STM-16 (FOTE) equipment along with panel/s supporting minimum three (3) directions with MSP (Multiplex Section Protection (1+1)) with necessary interfaces to meet the voice and data communication requirement between Angul (POWERGRID), Gopalpur 765 kV S/s. The suitable DC Power Supply and backup to be provided for communication equipment.
- (III) FOTE/FODP panel shall be installed in any new Bay Kiosk of Angul (POWERGRID). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of Angul (POWERGRID) which is communicating / to be communicated with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, the TSP may integrate the FOTE under the present scope with FOTE in the nearby Kiosk connected to the control room (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

- (IV) FOTE and FODP can be accommodated in same panel to optimize space.
- (V) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.

- (VI) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU,DCPS along with Battery Bank shall be the responsibility of TSP.

*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.*

#### **C.4.0 Gopalpur-Gopalpur (OPTCL) 400 kV D/c(quad) line**

On Gopalpur-Gopalpur (OPTCL) 400 kV D/c(quad) line (20 km approx), TSP shall supply, install and commission One (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak.

The TSP shall install this OPGW from gantry of Gopalpur 765/400 kV S/s up to the gantry of Gopalpur(OPTCL) S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations.

Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

#### **C.5.0 Extension at 400 kV level at Gopalpur (OPTCL)GIS S/s:- 400 kV GIS line bays:2 Nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]+2 nos. for diameter completion**

- (i) TSP shall supply, install and commission 1 no. FODP (72 F or higher) along with panel and required approach Cables (24f) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.
- (ii) TSP shall supply, install and commission One STM-16 (FOTE) equipment along with panel/s supporting minimum three (3) directions with MSP (Multiplex Section Protection (1+1) with necessary interfaces to meet the voice and data communication requirement between Gopalpur (OPTCL), Gopalpur 765 kV S/s. The suitable DC Power Supply and backup to be provided for communication equipment.
- (iii) FOTE/FODP panel shall be installed in any new Bay Kiosk of Gopalpur (OPTCL). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of Gopalpur (OPTCL) which is communicating / to be communicated with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, the TSP may integrate the FOTE under the present scope with FOTE in the nearby Kiosk connected to the control room (if available with spare direction). For this purpose, TSP shall provide

necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

- (iv) FOTE and FODP can be accommodated in same panel to optimize space.
- (v) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.
- (vi) The maintenance of all the communication equipment and software thereof including FOTE, PMU, FODP, approach cable, DCPS along with Battery Bank shall be the responsibility of TSP.

#### **C.6.0 Specific Requirement for Phasor Measurement Units (PMUs)**

TSP shall supply, install and commission required no. of Phasor Measurement Units (PMUs) PMUs at all the locations under the scope of TSP under this RFP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (along with all amendments if any), and all the applicable Regulations, Standards, Guidelines issued time to time. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.*

#### **C.7.0 PLCC and PABX:**

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction. The PLCC equipment shall in brief include the following:

- 
- Coupling device, line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as

means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/SLDC) etc.

- Coupling devices shall be suitable for phase to phase coupling for 765 kV and 400 kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in case of extreme frequency congestion.
- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.
- PLCC equipment for all the transmission lines covered under the scheme (consisting of one set of analog PLCC channel along with circuit protection coupler and one set of Digital protection coupler for both ends) shall be provided by TSP. CVT and Wave trap for all the line bays under present scope shall be provided by TSP.

Sl. No	Line Section	PLCC configuration
1.	Angul (POWERGRID) – Gopalpur 765 kV D/c line	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.
2.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c line	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.

- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.
- 2 sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required.

## Repeater Requirements

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.  
TSP shall co-ordinate for Space and DC power supply sharing for repeater equipment.  
TSP shall provide FODP, FOTE (with STM-16/suitable capacity) with suitable interfaces require for link budget of respective link.

OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.  
TSP shall provide repeater shelter along with FODP, FOTE (with STM-16/suitable capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings to establish connectivity up to the location of repeater shelter.  
TSP shall provide repeater shelter along with FODP, FOTE (with STM-16/suitable capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems  
Maintenance of OPGW Cable and OPGW Hardware, repeater equipment and items associated with repeater shelter shall be responsibility of TSP.

*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), PMUs, Voice etc. for smooth operation and monitoring of new added grid elements.*

**Next Generation Firewall (NGFW)**

TSP shall provide 2 nos. Next Generation Firewalls (NGFW); one no. Main and one no. Standby mode having electrical ethernet interfaces/ports and placed between FOTE and SAS gateway/s at the substation. All ethernet based applications shall be terminated in the firewall ports directly (e.g. PMU, AMR, VOIP, SAS/SCADA etc.). Each port of firewall shall work as a separate zone. Firewall shall be hardware based with features of Block/Allow/drop and IPSec VPN (network encryption).

Minimum 16 nos. of ports/interfaces in each firewall (i.e. Main and Standby). TSP can use either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps.

The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future.

Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERC-CIP Compliance.

The specifications for the firewalls are given at **Annexure-F.2** and schematic diagram showing firewall placement given at **Figure F.2**.

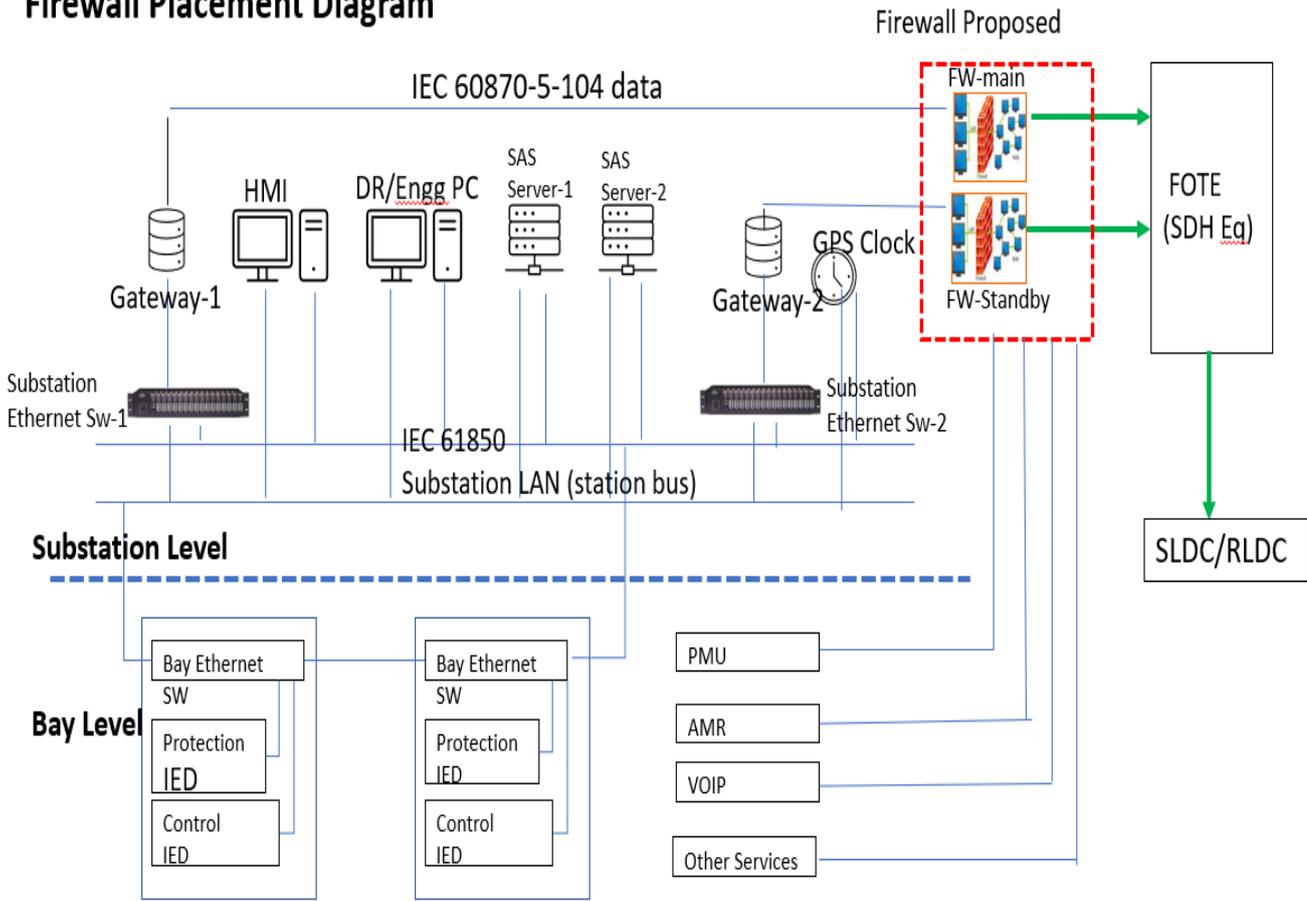
**Specifications of Next Generation Firewall (NGFW)**

1. NGFW shall have following features including but not limited to:  
Encryption through IPSec VPN (Virtual Private Network), Deep Packet Inspection (DPI), Denial of service (DoS) and Distributed Denial of Service (DDoS) prevention, Port Block/ Allow, rules/ policies for block/allow, IP (Internet Protocol) and Media Access Control (MAC) spoofing protection, threat detection, Intrusion Prevention System (IPS), Anti-Virus, Anti-Spyware, Man In The Middle (MITM) attack prevention.
2. The proposed firewall shall be able to handle (alert, block or allow) unknown /unidentified applications e.g. unknown TCP and UDP packets. It shall have the provision to define application control list based on application group and/or list.
3. Firewall shall have feature and also have capability to update the definition/ Signatures of Anti-Virus online as well as offline. Firewall shall also be compatible to update the definitions/signatures through CMC. There shall be a defined process for security patching and firmware up-gradation. There shall be a feature to field validate firmware checksum. The same shall also be validated before using the OEM provided file/binary in the process of firmware up-gradation and security patching
4. Firewall shall have Management Console port to configure remotely.
5. Firewall shall be EMI/EMC compliant in Substation environment as per IEC 61850-3.
6. Firewall shall be rack mounted in existing standard equipment cabinets.
7. Firewall shall have support of SCADA applications (IEC-60870-5-104), ICCP, PMU (IEEE C37.118), Sub-Station Automation System (IEC 61850), Ethernet and other substation environment protocols.
8. Client based Encryption/ VPN must support different Operating System platforms e.g. Windows, Linux and Mac.
9. The solution must have content and comprehensive file detection policies, blocking the files as function of their types, protocols and directions.
10. Firewall shall have logging facility as per standard logs/events format. Firewall shall have features to export the generated/stored logs/events in csv (Comma Separated Value) and also any other standard formats for offline usage, analysis and

compliance. Firewall shall have suitable memory architecture and solution to store and be able to export all logs/events for a period of last 90 days at any given time.

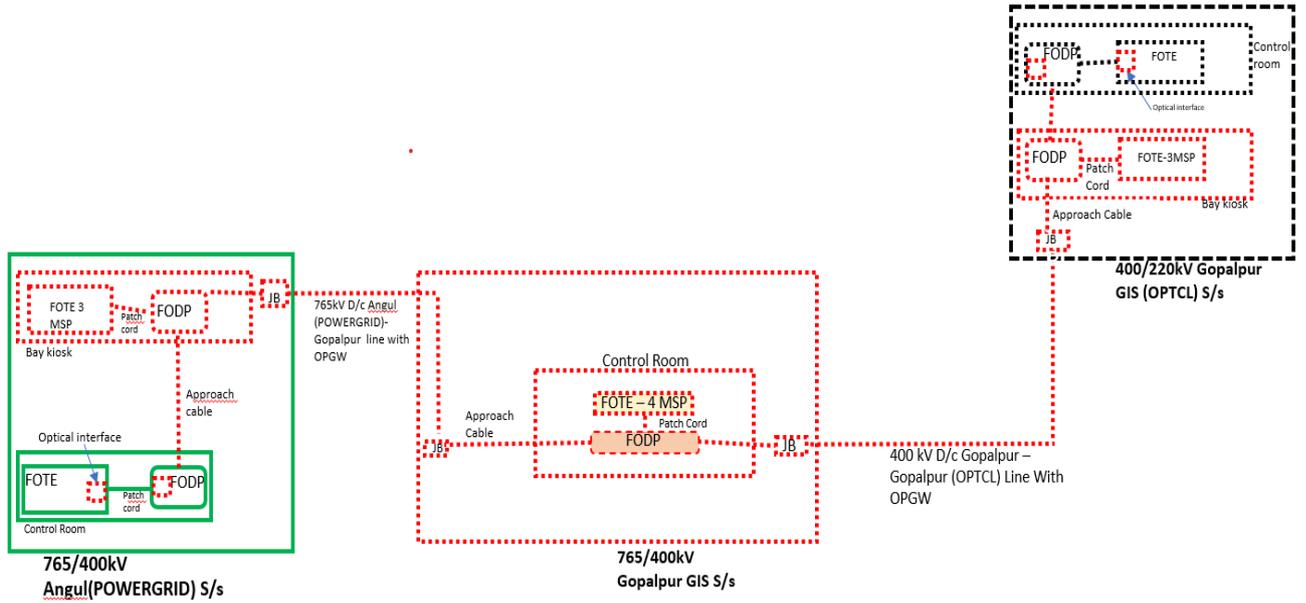
11. Firewall shall have features and be compatible with local as well as central authentication system (RADIUS, LDAP, or TACACS+) for user account and access right management. It shall also have Role Based User management feature.
12. Firewall shall have the capability to configure sufficient number of VLANs.
13. Firewall shall have the capability to support sufficient number of sessions.
14. Firewall shall have provision to configure multiple IP Sec VPNs, at least 100 nos., (one-to-many or many-to-one). Shall support redundant operation with a similar router after creation of all the IP Sec VPN. IPsec VPN shall support encryption protocols as AES128, AES256 and hashing algorithms as MD5 and SHA1. IPsec VPN throughput shall support at least 300 Mbps
15. Firewall shall be capable of SNMP v3 for monitoring from Network Management system. It shall also have SNMPv3 encrypted authentication and access security
16. Firewall shall support in Active/Passive or Active-Active mode with High Availability features like load balancing, failover for firewall and IPsec VPN without losing the session connectivity.
17. Firewall should have integrated traffic shaping (bandwidth, allocation, prioritisation, etc.) functionality
18. Shall support simultaneous operation with both IPv4 and IPv6 traffic
19. Firewall shall be compatible with SNTP/NTP or any other standards for clock synchronization
20. Firewall shall have the features of port as well as MAC based security
21. Firewall shall support exporting of logs to a centralized log management system (e.g. syslog) for security event and information management.
22. Firewall time shall be kept synchronised to official Indian Timekeeping agency, [time.nplindia.org](http://time.nplindia.org).
23. Firewall product shall be provided with all applicable updates at least until 36 months since the applicable date of product shipping to the concerned utility.

## Firewall Placement Diagram



**Figure F.2**

## Proposed Communication for Eastern Region Expansion Scheme XXXIX



### Legend:

- Present Scope .....
- Upcoming .....
- Existing .....

Frequently Asked Queries:**1.0**     Transmission Line:

- 1.1     Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

**Reply:** Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as shutdown of ISTS lines are concerned the same can be availed by approaching respective Regional Power Committee.

- 1.2     We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

**Reply:** It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

- 1.3     We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

**Reply:** Power line crossing including Diamond configuration is responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

- 1.4     It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.

**Reply:** Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest stretches as provided in the survey report and also for any forest area encountered during detailed survey.

## 2.0 **Substation**

2.1 We understand that space for storage of O&M spare shall be provided by existing owner within the station boundary without any cost. Kindly confirm.

**Reply:** Space for storage of O&M spares shall be arranged by TSP on its own.

2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

**Reply:** Operation and maintenance of the bays is solely responsibility of the TSP. TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023. Copy of the guideline is available on CEA website at following link:

[https://cea.nic.in/wp-content/uploads/pse\\_ttd/2023/06/om\\_guidelines.pdf](https://cea.nic.in/wp-content/uploads/pse_ttd/2023/06/om_guidelines.pdf)

2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

- (a) We assumed internal road is available and need not to consider in the present scope of work.
- (b) Drainage is available and need not to consider in the present scope of work.
- (c) Cable trench extension in adjacent to Main cable trench only under present scope of work.
- (d) Levelled area being provided by developer for bay extension.

**Reply:** Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

**Reply:** Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it will be on chargeable basis or part of transmission loss.

**Reply:** It will be on chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

**Reply:** VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by respective substation owner for construction of new bays.

**Reply:** Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that existing fire hydrant system shall be extended by the TSP for bay extension.

**Reply:** Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify that Status of land acquisition for Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

**Reply:** The acquisition of land for substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.

**Reply:** Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class is matching with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

### **3.0 Communication**

3.1 What is the usage of OPGW, FOTE, PMU etc. under communication requirement of RFP?

**Reply:** User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.

Communication systems e.g. OPGW, FOTE, PMU etc. are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

**Reply:** The space related issues are deliberated in the RFP itself. TSP to carry out survey of the existing substation for physical space requirement. In case space is not available in the existing substation then TSP shall accommodate the same in the

respective bay SPR (Switchyard Panel Room)/Bay Kiosk/ Relay panel room in case of GIS s/s. Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

### 3.3 How is the OPGW laying done in case of LILO lines?

**Reply:** In case LILO lines are on same towers (e.g. both Line in and Line Out **portion** are on same towers, generally done LILO of S/C lines). Then 2x24F OPGW shall be required to install by TSP on both earthwire peak on 400 kV and 765 kV lines where two E/W peaks are available. On 220 kV and 133 kV lines where only one E/W peak is available TSP to install one no. 48F OPGW.

Incase LILO lines are on different towers (e.g. both Line in and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x24F OPGW shall be required to install by TSP on one earthwire peak, on both Line In and Line Out portions of 400 kV and 765 kV lines. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one no. 24F OPGW in place of conventional earthwire.

### 3.4 How is the OPGW laying done in case Multi circuit Towers?

**Reply:** In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two no. 24F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV and 400 kV lines.

Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one no. 48F may be installed for common multi circuit portion.

# REC POWER DEVELOPMENT AND CONSULTANCY LIMITED

(A wholly owned subsidiary of REC Ltd.) 248

## GLOBAL INVITATION (Through e-bidding Only) FOR SELECTION OF TRANSMISSION SERVICE PROVIDER THROUGH TARIFF BASED COMPETITIVE BIDDING (TBCB) PROCESS ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR ONE (1) INTER - STATE TRANSMISSION PROJECT

REC Power Development and Consultancy Limited, New Delhi, India (a wholly owned subsidiary of REC Limited, a Maharatna Central Public Sector Undertaking) invites proposal for setting up of the below mentioned transmission project through TBCB process on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal (RFP)". Interested bidders may refer to the Request for Proposal (RFP) notifications and RFP documents available on our website [www.recpdcl.in](http://www.recpdcl.in) & [www.recindia.nic.in](http://www.recindia.nic.in) w.e.f. 16.03.2024.

The bidders may obtain the RFP documents on all working days between 1030 hours (IST) to 1600 hours (IST) from 16.03.2024 to one day prior to bid submission date on payment of non-refundable fee of Rs. 5,00,000/- (Rupees Five Lakh Only) or US\$ 7000 (US Dollars Seven Thousand Only) + 18% GST as per details provided in the RFP documents available on the website [www.recpdcl.in](http://www.recpdcl.in) & [www.recindia.nic.in](http://www.recindia.nic.in).

The Request for Proposal (RFP) documents can also be downloaded from our website [www.recpdcl.in](http://www.recpdcl.in) & [www.recindia.nic.in](http://www.recindia.nic.in), however, in such cases interested parties can submit Response to RFP only on submission of non-refundable fee of Rs. 5,00,000/- (Rupees Five Lakh Only) or US\$ 7000 (US Dollars Seven Thousand Only) + 18% GST as per details provided in the respective RFP document. The survey report & clarifications to RFP documents shall be issued to those bidders, who have obtained/purchased RFP document by paying requisite fee. The important timelines in this regard are as follows

Sr. No.	Name of Project	Last Date for seeking clarifications	Last Date for submission of Response to RFP	Details of Opening of Response to RFP
1	Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)	05.04.2024	20.05.2024 up to 1100 Hrs (IST)	20.05.2024 at 1130 Hrs (IST)

All corrigenda, addenda, amendments, time extensions, etc. to the RFP will be hosted on our websites [www.recpdcl.in](http://www.recpdcl.in) & [www.recindia.nic.in](http://www.recindia.nic.in). Bidders should regularly visit our websites to keep themselves updated.

Note: RECPDCL reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Chief Executive Officer

REC Power Development and Consultancy Ltd.

Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003, India

Bid Process Coordinator

An Initiative of

Initiative Partner



REC Power Development and Consultancy Ltd.

Ministry of Power Government of India

Central Electricity Authority

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18002003004 to get our Apps

# Annexure P-7 (Colly)

**U.P. State Road Transport Corporation**  
Parivahan Bhavan, Tehri Kottim, M.C. Marg, Lucknow-226001 (U.P.)

E-Tender No.: 644MT/2024-66 MT/2016 Dated : 15.03.2024

### E-TENDER NOTICE

U.P.S.R.T.C. is inviting E-tenders from only eligible sources (Eligibility for participating in tender is given in tender document for following depots:-  
**Name of Items :- TECHNICAL BID & FINANCIAL BID FOR PERIODICAL MAINTENANCE, OVERHAULING OF ASSEMBLIES, BODY WORK ON TATA/LEYLAND BUSES WITH LABOUR, LUBRICANTS AND SPARE PARTS COST WITH NEW AND RTD TYRE**

1-Taj Depot, Agra region, 2-Sahibabad Depot, Ghaziabad region, 3-Sohrab Gate Depot, Meerut region, 4-Chutmalpur Depot, Saharanpur region, 5-Etah Depot, Aligarh region, 6-Najibabad Depot, Moradabad region, 7-Badaun Depot, Bareilly region, 8-Hardoi Depot, Hardoi region, 9-Etawah Depot, Etawah region, 10-Vikas Nagar Depot, Kanpur region, 11-Jhansi Depot, Jhansi region, 12-Awadh Depot, Lucknow region, 13-Sultanpur Depot, Ayodhya region, 14-Zero Road Depot, Prayagraj region, 15-Ballia Depot, Azamgarh region, 16-Deoria Depot, Gorakhpur region, 17-Cantt Depot, Varanasi region, 18-Banda Depot, Chitrakoot region, 19-Balrampur Depot, Devipatan region,

Availability & e-submission of e-Tender on e-portal :- W.E.F. 16.03.2024 to 08.04.2024 up to 12.00 noon.  
 Opening of e-Tender document :- 08.04.2024 at 14.00 Hrs.  
 Pre Bid Meeting has being fixed on Dated 21.03.2024 at 12:00 noon in meeting hall UPSRTC(HQ) Lucknow.

All e-tenders of UPSRTC shall be available on the website of Govt. e-portal [etender.up.nic.in](http://etender.up.nic.in). Detailed Bill of quantity, Eligibility for participating in tender, Other terms and conditions of the tender and calendar/timing of the tender may be seen on Govt. e-portal [etender.up.nic.in](http://etender.up.nic.in)

Please do visit [etender.up.nic.in](http://etender.up.nic.in) from time to time before last date of submission of tender for any possible amendment/corrigendum/addendum. Any amendment/corrigendum/addendum only published in e-portal of [etender.up.nic.in](http://etender.up.nic.in). For any query / clarification regarding submission of e-tender vendors may call on following helpline numbers of NIC:-  
 1-0522-2286809/808 2-0522-4130303/2298813 3-09935149327

**Additional Managing Director**

**BRIHANMUMBAI MUNICIPAL CORPORATION**  
Department: Chief Engineer (Mechanical & Electrical)

### E-Tender Notice

**BRIHANMUMBAI MUNICIPAL CORPORATION**  
Chief Engineer (Mechanical & Electrical)'s Department

Department	Ch. Eng. (M&E)
Sub Department	Dy. Ch. Eng.(M&E) City
Tender Document ID No	1. 2024_MCGM_1036014_1 2. 2024_MCGM_1036009_1
Name of Organization	Brihanmumbai Municipal Corporation
Subject	1. Repairs to auto door lift installed at Dr.Anandibai Joshi Maternity Home, Magan Nathuram Marg at Bail Bazar, Kurla (W) 2. Upgradation of 02 nos. Lifts (G+5) installed at Office of Ch.Eng. (SWM), Khataw Market, Grant Road.
Scrutiny Fee	1. Rs.1,200/- + 18.0% GST. 2. Rs.3,000/- + 18.0% GST.
Cost of E-Tender* (Estimated Cost)	----- (Item rate basis)
Bid Security Deposit EMD	1. Rs.6,100/- 2. Rs.24,700/-
Time of issue and sale of tender	16.03.2024 upto 12:00 Hrs.
Last date & time for sale of tender & Receipt of Bid Security Deposit	22.03.2024 upto 16:00 Hrs.
Submission of Packet A, B & Packet C (Online)	22.03.2024 after 16:01 Hrs.
Pre-Bid Meeting	-N.A.-
Opening of Packet A	26.03.2024 after 16:02 Hrs.
Opening of Packet B	26.03.2024 after 13:00 Hrs.
Opening of Packet C	02.04.2024 upto 12:00 Hrs
Address for communication	Office of the:- E.E.Mech(E.I.)Maint., BMC Municipal Workshop, R.S. Nimkar Marg, Byculla, Mumbai- 400 008
Venue for opening of bid	On line in E.E.Mech(E.I.)Maint's office.
NIC's portal	<a href="https://mahatenders.gov.in">https://mahatenders.gov.in</a>

**This tender document is not transferable.**  
 The MCGM reserves the rights to accept any of the application or reject any or all the application received for above subject without assigning any reason thereof.

**Sd/-**  
**E.E.Mech. (E.I.)Maint.**  
**PRO/3508/ADV/2023-24**

Let's together and make Mumbai Malaria free.

**BRIHANMUMBAI MUNICIPAL CORPORATION**  
Chief Engineer (Mechanical & Electrical)'s Department  
No. E.E.MECH/4901/REF DT. 15.03.2024

### E-Tender Notice

Department	Ch. Eng. (M&E)
Sub Department	Dy. Ch. Eng.(M&E) City/ Ex. Eng. Mech.(Refrigeration)
Bid Numbers	1) 2024_MCGM_1035871_1
Subjects	1) Rate contract for the work of replacement of Hepa filters, Microvee filters & to carry out DOP testing at Hinduhriday Samrat Balasaheb Thackrey Trauma Care Hospital. Jogeshwari (E) for the period of two years. E.E. Mech./ Ref. /T-111 dated 15.03.2024
Bid Start Date & time	16.03.2024 at 11:00 a.m.
Bid End Date & time	05.04.2024 at 04.00 pm
Pre Bid Meeting	22.03.2024 at 03.00 pm
Website	<a href="http://portal.www.mcgm.gov.in">http://portal.www.mcgm.gov.in</a>
Contact Officer Name	Shri.A.K.Jambhore
Land line No.	022-23096433
Mobile No.	9930128387
Email	<a href="mailto:eemechref.me@mcgm.gov.in">eemechref.me@mcgm.gov.in</a>

**Sd/-**  
**(A. K. Jambhore)**  
**E.E.Mech. (Refrigeration)**  
**PRO/3489/ADV/2023-24**

Let's together and make Mumbai Malaria free.

**अधिशायी अभियन्ता, राजस्थान राज्य कृषि विपणन बोर्ड, सुमेरपुर(पाली)**

**ई-निविदा सूचना संख्या 13 / 2023-24 NIB No: AGM2324A0225**

विभिन्न निर्माण कार्य पैकेज-01 राजईस ईकाई को अलकृत बागवानी केन्द्र, माउण्ट-आबू, सिरोही में विकसित करने हेतु रु. 550.61 लाख, पैकेज-01 अजीर उत्कृष्टता केन्द्र, सिरोही रु. 433.79 लाख के कार्यों को ऑनलाईन निविदा दि.16.04.2024 एवं प्रशिक्षण,मण्डारण एवं विपणन केन्द्र, राजस संघ लिमिटेड प्रतापनगर, उदयपुर रु. 165.14 लाख के कार्यों की ऑनलाईन निविदा दि. 01.04.2024 की साथ 6.00 बजे तक ई-प्रोच्योरमेंट ([www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in)) के माध्यम से बोर्ड एवं अन्य राजकीय विभागों में उपयुक्त श्रेणी में पंजीकृत संवेदको से आमंत्रित की जाती है। निविदा से सम्बन्धित विस्तृत विवरण बोर्ड की वेबसाइट [www.agriculture.rajasthan.gov.in/ramsamb](http://www.agriculture.rajasthan.gov.in/ramsamb) एवं [www.sppp.rajasthan.gov.in](http://www.sppp.rajasthan.gov.in) पर भी देखा जा सकता है। (UBN No: AGM2324WLOB00996 to AGM2324WLOB00998)

**अ.अ.**  
 राज.संचार/सी/23/14835

**REC POWER DEVELOPMENT AND CONSULTANCY LIMITED**  
(A wholly owned subsidiary of REC Ltd.)

### GLOBAL INVITATION (Through e-bidding Only) FOR SELECTION OF TRANSMISSION SERVICE PROVIDER THROUGH TARIFF BASED COMPETITIVE BIDDING (TBCB) PROCESS ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR ONE (1) INTER - STATE TRANSMISSION PROJECT

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The bidders may obtain the RFP documents on all working days between 1030 hours (IST) to 1600 hours (IST) from 16.03.2024 to one day prior to bid submission date on payment of non-refundable fee of Rs. 5,00,000/- (Rupees Five Lakh Only) or US\$ 7000 (US Dollars Seven Thousand Only) + 18% GST as per details provided in the RFP documents available on the website [www.recpcdl.in](http://www.recpcdl.in) & [www.recindia.nic.in](http://www.recindia.nic.in).

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Note: RECPDCL reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

**Chief Executive Officer**  
**REC Power Development and Consultancy Ltd.**  
 Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003, India

Bid Process Coordinator An Initiative of Initiative Partner

**REC Power Development and Consultancy Ltd.** Ministry of Power Government of India Central Electricity Authority

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 CIN : U-04109WB20075GC113473, www.wbsedcl.in

**Extension of Time**

**Ref. NIT No.:** WBSedCL/Communication/Tender/2023-24/SCADA/WB/1583 Dtd.: 08.02.2024 of the **Chief Engineer**, Communication Cell, WBSedCL. Bid Submission End Date is hereby extended up to **18.04.2024 (12:00 hrs.)**.

For details, visit <https://wbtenders.gov.in> & [www.wbsedcl.in](http://www.wbsedcl.in)  
 ICA- T7592(3)/2024

**REC POWER DEVELOPMENT AND CONSULTANCY LIMITED**  
 (A wholly owned subsidiary of REC Ltd.)

**GLOBAL INVITATION (Through e-bidding Only)**  
**FOR SELECTION OF TRANSMISSION SERVICE PROVIDER THROUGH TARIFF BASED COMPETITIVE BIDDING (TBCB) PROCESS ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR ONE (1) INTER - STATE TRANSMISSION PROJECT**

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Bid Process Coordinator      An Initiative of      Initiative Partner

REC Power Development and Consultancy Ltd.      Ministry of Power Government of India      Central Electricity Authority

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 फोन. नं. : 0731-2535572; ई-मेल : smart  
 CIN: U75100MP2016SGC035528; Websit**

**NIT No. 32/ISCDL/2023-24**

**NOTICE INVITING TENDER**

Online Lumpsum rate tenders are invited for following works. Tender online by the eligible contractors / Firms registered with the Government public procurement portal : [www.mptenders.gov.in](http://www.mptenders.gov.in)

S. No.	Name of work	Reserve Price (Rs.)
1	REQUEST FOR PROPOSAL FOR SELECTION OF BIDDER FOR "CONSTRUCTION OF PART OF 45-METER-WIDE CEMENT CONCRETE MR-6 ROAD FROM MHOW NAKA TO SAMAJWADI INDIRA NAGAR AND CONSTRUCTION OF 18-METER-WIDE CEMENT CONCRETE KUKKUT BHAWAN ROAD FROM LAXMAN SINGH GAUD ROAD TO SHRI VAISHNAV POLYTECHNIC COLLEGE" UNDER THE MODEL PRESCRIBED IN RE-DENSIFICATION POLICY OF GOMP INCLUDING FREEHOLD SALE OF 3 NOS. BLOCKS (R20, R21, and R22) AS COMPENSATORY LAND PARCEL (CLP)	45,43,52,160 (Forty Five Crore Forty Three Lakh Fifty Two Thousand One Hundred Sixty Only)

**Key Dates :-**

S.No.	Description
1.	Last date for Purchase of Tender (Online)
2.	Last date for submission of tender (Online)
3.	Technical bid opening (Online)
4.	Pre-Bid Meeting

**Notes :-**

- Tender Document and other details shall be available on Website : [www.mptenders.gov.in](http://www.mptenders.gov.in)
- Amendment to NIT, if any would be published on website only.
- The EMD shall be deposited online through portal via Debit card/Credit Card/Generated Challan.
- In case any of the dates specified above is Government holiday, day after the date shall be observed.
- For Any Clarification : / Site Visits; Bidders may contact **Mr. Mahesh Sharma** 7440443334

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*Mint Ahemad 9629*

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seeking a third term in office and vaa (modi's family) narrative, the PM said, "Our partnership is people" and called it "the biggest achievement of our government trust that you have placed in me, the letter said.

**HEADQUARTERS**  
**Employees' State Insurance Corporation**  
 (Ministry of Labour & Employment, Govt. of India)  
 Panchdeep Bhawan, C.I.G. Marg, New Delhi-110 002  
 Website: www.esic.gov.in

**RECRUITMENT NOTICE**

Employees' State Insurance Corporation (ESIC) invites applications from talented, innovative and dynamic candidates in the field of Information Technology, Actuarial, Finance, Legal, Medical, Human Resource, Strategic planning and analysis etc. for Engagement of Individual Consultants "Under the ESIC policy for Engagement of Young Professional/Consultant Grade-1/Consultant Grade-2/ Senior Consultant on contractual basis". The candidates fulfilling the requirement may apply through online portal (www.esic.gov.in). The portal will open on 20/03/2024 and will be available till midnight of 03/04/2024. The detailed recruitment notice of experience, remuneration, including the terms and conditions are available at [www.esic.gov.in](http://www.esic.gov.in).

**HEADQUARTERS**  
**Employees' State Insurance Corporation**  
 (Ministry of Labour & Employment, Govt. of India)  
 PANCHDEEP BHAWAN, C.I.G. MARG, NEW DELHI - 110 002  
 Website: www.esic.gov.in

**NOTICE INVITING TENDER**

RFP in two packet bid systems are invited through GeM portal for Hiring of Actuarial Consultancy firm/company on Retainership basis for ESIC vide GEM Bid No. GEM/2024/B/4621675. The RFP document is available online from 01.03.2024 at <https://gem.gov.in>. The interested bidders are requested to submit their bids online on GeM Portal as per the RFP latest by 22.03.2024 up to 01:00 PM. RFP documents are also available on the website of Employees' State Insurance Corporation i.e. [www.esic.gov.in](http://www.esic.gov.in) for information.

Sd/-  
Deputy Director (Actuarial)

**E-TENDER NOTICE**

**DIRECTOR OF CIVIL AVIATION,** GUJSAIL Complex, Nr. Torrent Sub Station, SVPI Airport, Ahmedabad- 380 004.  
 Ph. No.079-22882000

Tender is invited from the well-reputed and experience agencies for carry out the under mentioned work through e-tendering process.

Tender ID	Name of Work
61199	UNDERTAKING CAMO & MAINTENANCE CONTRACT OF BOMBARDIER CHALLENGER 650 (VARIANT-604) AIRCRAFT.
61052	UNDERTAKING MAINTENANCE OF BEECHCRAFT SUPER KING AIR B200 VT-GUJ
61174	UNDERTAKING MAINTENANCE OF AS 365 N3 DAUPHIN HELICOPTER

The last date of online submission for tender is 17/05/2024 up to 18:10 Hrs.

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**MAHARASHTRA UNIVERSITY OF HEALTH SCIENCES-DEPARTMENT OF INNOVATIONS AND SYSTEMS FOR HEALTHCARE ASSOCIATION (MUHS-DISHA) NASHIK**

Dindori Road, Mhasrul, Nashik - 422004 E-mail: [muhsdisha@muhs.ac.in](mailto:muhsdisha@muhs.ac.in)  
 Tel: (0253) 2539288/6659288

**Expression of Interest for Intellectual Property (IP) Services**

MUHS-DISHA invites proposals for the Expression of Interest for Empanelment of Firms Providing Intellectual Property (IP) Services and Assistance in Registering Intellectual Property (IP) rights. Interested Firms should submit application (hard copy) in prescribed format to the Nodal Officer, MUHS-DISHA, Nashik and soft copy in PDF format to [muhsdisha@muhs.ac.in](mailto:muhsdisha@muhs.ac.in) before 05/04/2024. For more details please visit University website [www.muhs.ac.in](http://www.muhs.ac.in)

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Bid Process Coordinator: REC Power Development  
 An Initiative of: Ministry of Power Government of India  
 Initiative Partner: Central Electricity Authority

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अधिकांशी अभियन्ता, राजस्थान राज्य कृषि विपणन बोर्ड, सुमैरपुर(भारत)  
ई-निविदा सूचना संख्या 13/2023-24 NIB No: AGM2324A0225  
विभिन्न निर्माण कार्य पैकेज-01 राजहंस ईकाई को अलंकृत बागवानी केन्द्र, माउण्ट-आबू, सिराही में विकसित करने हेतु रु. 550.61 लाख, पैकेज-01 अंजीर उत्कृष्टता केन्द्र, सिराही रु. 433.79 लाख के कार्यों की ऑनलाईन निविदा दि.16.04.2024 एवं प्रशिक्षण,मण्डारण एवं विपणन केन्द्र, राजस संघ लिमिटेड प्रतापनगर, उदयपुर रु. 165.14 लाख के कार्यों की ऑनलाईन निविदा दि. 01.04.2024 की राय 6.00 बजे तक ई-प्रोक्चोरमेंट ([www.eproc.rajasthan.gov.in](http://www.eproc.rajasthan.gov.in)) के माध्यम से बोर्ड एवं अन्य राजकीय विभागों में उपयुक्त श्रेणी में पंजीकृत संवेदकों से आमंत्रित की जाती है। निविदा से सम्बंधित विस्तृत विवरण बोर्ड की वेबसाइट [www.agriculture.rajasthan.gov.in](http://www.agriculture.rajasthan.gov.in) पर भी देखा जा सकता है।  
(UBN No: AGM2324WLOB00996 to AGM2324WLOB00998) अ.अ.  
राज.संवाद/सी/23/14935

## E-TENDER NOTICE



DIRECTOR OF CIVIL AVIATION, GUJSAIL Complex, Nr. Torrent Sub Station, SVPI Airport, Ahmedabad- 380 004. Ph.No.079-22882000

Tender is invited from the well-reputed and experience agencies for carry out the under mentioned work through e-tendering process.

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The last date of online submission for tender is 19/04/2024 up to 18:10 Hrs.	
Interested bidder may visit <a href="http://tender.nprocure.com">tender.nprocure.com</a> for more information.	



## SRM E-Tender Notice

Digitally signed online bids are invited through SRM E-tender process of MSETCL in two bid system from bidders who are registered Electrical Contractors/Vendors of MSETCL. RFX.No. 70000230838 E-tender No. CE/EHV PC O&M ZONE/NSK/T-39/2023-24, **Particulars of Work:** Augmentation of substation by providing additional 3x167 MVA, 400/220/33 kV ICT along with extension of RRS up to existing 167MVA,400/220/33kV Spare ICT-2 unit at 400kV R.S. Dhule under Nashik Zone **Estimated cost of work:** Rs.1383.91 Lakhs, **E.M.D. (Aprox.1% of Est. cost):** Rs13,83,910/-, **Tender Fees:** Rs 29500/-, **Sale period:** 14.03.2024 to 28.03.2024, **Last Date of Submission:** 28.03.2024 upto 13:00 Hrs, **Date of opening (Tech. bid):** 28.03.2024 at 15:00Hrs (if possible), **Contact person:** Executive Engineer, EHV PC O&M Zone, Nashik. Phone No. 0235-2403016,01,02 Fax No. 0253-2403000, For further details please visit to <https://srmetender.mahatransco.in>

Chief Engineer EHV PC O&M Zone, MSETCL, Nashik.



## Slum Rehabilitation Authority

(Under section 37(1-B) of the Maharashtra Regional and Town planning Act 1966).

## NOTICE

**NO. SRA/DDTP/Modification/Sant Dnyaneshwar Nagar and others/Bandra/Tal- Andheri /S.No. 341, CTS No. 629 (Part)/2024/139, Dtd.15/03/2024**

Whereas, State Government vide Urban Development and Public Health Department's Notification no. BKR 1177/262-UD-5 dated 07/03/1977 has appointed Mumbai Metropolitan Region Development Authority (hereinafter referred to as "MMRDA") formed under the provisions of Mumbai Metropolitan Region Development Authority Act, 1974 as Special Planning Authority for Bandra-Kurla Complex Notified Area (hereinafter referred to as "B.K.C.") under section 40(1)(c) of the Maharashtra Regional and Town Planning Act, 1966 (hereinafter referred to as "the said Act").

And whereas, the plan of Planning Proposals for the area included in B.K.C. (hereinafter referred to as "the said Planning Proposal Plan") along with Development Control Regulations have been sanctioned by State Government vide Urban Development and Public Health Department's Notification no. BKR 1177/262-UD-5 dated 09/04/1979 under section 40(3)(d) of the said Act.

And whereas, the Government of Maharashtra vide Notification of Housing and Special Assistance Department No. SRD 1095/CR-37/Housing Cell, dated- 16th December 1995 has appointed "Slum Rehabilitation Authority" under the provisions of section 3(A) of the

## कार्यालय अधिकांशी अभियन्ता, सा.नि.वि. खण्ड राजगढ़ (चूरु)

क्रमांक: 1859-1870

दिनांक: 12.03.2024

ई-निविदा सूचना संख्या: 18/2023-24

राजस्थान के राज्यपाल महोदय की ओर से तहसील राजगढ़ जिला चूरु में निर्माण कार्यों के लिए उपयुक्त श्रेणी के सार्वजनिक निर्माण विभाग राजस्थान में पंजीकृत संवेदकों एवं राज्य सरकार/केन्द्र सरकार के अधिकृत संगठनों/केन्द्रीय लोक निर्माण विभाग/झाक एम्पू दूर संचार विभाग/रेलवे इत्यादि में पंजीकृत संवेदकों, जो कि राजस्थान सरकार के उपयुक्त श्रेणी के संवेदकों के समकक्ष हैं, से निर्धारित प्रश्न में ई-टेंडरिंग प्रक्रिया द्वारा ऑनलाईन निविदों आमंत्रित की जाती हैं। आर.पी.डब्ल्यू.ए. 100 की शर्त लागू होगी। निविदा से संबंधित विवरण वेबसाइट <http://dipr.rajasthan.gov.in/tenders.asp> एवं विभागीय वेबसाइट <http://eproc.rajasthan.gov.in> व <http://www.pwd.rajasthan.gov.in> तथा <http://sppp.raj.nic.in> पर देखा जा सकता है।

NIB No. PWD2324A5112

W.No.	UBN No.
1.	PWD2324WSOB22339

Dipr/c/3042/2024

अधिकांशी अभियन्ता  
सा.नि.वि. खण्ड राजगढ़ (चूरु)REC POWER DEVELOPMENT AND CONSULTANCY LIMITED  
(A wholly owned subsidiary of REC Ltd.)

**GLOBAL INVITATION (Through e-bidding Only)  
FOR SELECTION OF TRANSMISSION SERVICE PROVIDER THROUGH  
TARIFF BASED COMPETITIVE BIDDING (TBCB) PROCESS ON BUILD,  
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REC Power Development and Consultancy Limited, New Delhi, India (a wholly owned subsidiary of REC Limited, a Maharashtra Central Public Sector Undertaking) invites proposal for setting up of the below mentioned transmission project through TBCB process on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal (RFP)". Interested bidders may refer to the Request for Proposal (RFP) notifications and RFP documents available on our website [www.recpcdl.in](http://www.recpcdl.in) & [www.recindia.nic.in](http://www.recindia.nic.in) w.e.f. 16.03.2024.

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Sr. No.	Name of Project	Last Date for seeking clarifications	Last Date for submission of Response to RFP	Details of Opening of Response to RFP
1	Eastern Region Expansion Scheme- XXXIX (ERES-XXXIX)	05.04.2024	20.05.2024 up to 1100 Hrs (IST)	20.05.2024 at 1130 Hrs (IST)

All corrigenda, addenda, amendments, time extensions, etc. to the RFP will be hosted on our websites [www.recpcdl.in](http://www.recpcdl.in) & [www.recindia.nic.in](http://www.recindia.nic.in). Bidders should regularly visit our websites to keep themselves updated.

Note: RECPCDL reserves the right to cancel or modify the process without assigning any reason and without any liability. This is not an offer.

Chief Executive Officer  
REC Power Development and Consultancy Ltd.  
Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003, India

Bid Process Coordinator An Initiative of Initiative Partner

REC Power Development and Consultancy Ltd. Ministry of Power Government of India Central Electricity Authority

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## CENTRAL RAILWAY

MUMBAI DIVISION  
E-TENDER NOTICE

**Name of Work** :- One year Comprehensive AMC to Roller Bearing Cleaning Plant (Plant no. 2617) in wheel shop, **Approximate cost** :- ₹ 11,29,084/-, **Cost of tender form** :- ₹ 0/-, **EMD** :- ₹ 22,600/-, **Completion Period** :- 12 month. The time and date for submission of above E-tender will be up to 11.00 Hrs. on 04.04.2024. Complete details of E-tender is available at official Railway website : <https://www.reps.gov.in>.  
**Open E Tender Notice No.**  
**PR-PD-RB-2617-23-24-650**

**Dt:** 13/03/2024 **Sd/**  
**SUN/980** Chief Workshop Manager, Parel

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**WEST BENGAL STATE ELECTRICITY DISTRIBUTION COMPANY LIMITED**  
 (A Govt. of West Bengal Enterprise)  
 Regd. Office - Vidyut Bhavan, Block-DJ, Sector-II, Bidhannagar, Kolkata - 700 091  
 CIN : U40109WB2007SGC113473, www.wbsecl.in

**Extension of Time**  
 Ref. NIT No.: WBSEDCL/Communication/Tender/2023-24/SCADA/WB/1583 Dtd.: 08.02.2024 of the Chief Engineer, Communication Cell, WBSEDCL. Bid Submission End Date is hereby extended up to **18.04.2024 (12:00 hrs.)**.  
 For details, visit <https://wbtenders.gov.in> & [www.wbsecl.in](http://www.wbsecl.in)  
 ICA- T7592(3)/2024

**Smart City**  
 इन्दौर स्मार्ट सिटी  
 स्मार्ट सिटी ऑफिस, नेहरु पार्क  
 फोन. नं. : 0731-2535572; ई-मेल : sma  
 CIN: U75100MP2016SGC035528; Web

**NIT No. 32/ISCDL/2023-24 NOTICE INVITING TENDERS**  
 Online Lumpsum rate tenders are invited for following works. online by the eligible contractors / Firms registered with the Govt public procurement portal : [www.mptenders.gov.in](http://www.mptenders.gov.in)

S.No.	Name of work	Reserve Price (Rs.)
1	REQUEST FOR PROPOSAL FOR SELECTION OF BIDDER FOR "CONSTRUCTION OF PART OF 45-METER-WIDE CEMENT CONCRETE MR-6 ROAD FROM MHOW NAKA TO SAMAJWADI INDIRA NAGAR AND CONSTRUCTION OF 18-METER-WIDE CEMENT CONCRETE KUKKUT BHAWAN ROAD FROM LAXMAN SINGH GAUD ROAD TO SHRI VAISHNAV POLYTECHNIC COLLEGE" UNDER THE MODEL PRESCRIBED IN RE-DENSIFICATION POLICY OF GOMP INCLUDING FREEHOLD SALE OF 3 NOS. BLOCKS (R20, R21, and R22) AS COMPENSATORY LAND PARCEL (CLP)	45,43,52,160 (Forty Five Crore Forty Three Lakh Fifty Two Thousand One Hundred Sixty Only)

**Key Dates :-**

S.No.	Description
1.	Last date for Purchase of Tender (Online)
2.	Last date for submission of tender (Online)
3.	Technical bid opening (Online)
4.	Pre-Bid Meeting

**Notes :-**

- Tender Document and other details shall be available on Website : [www.wbsecl.in](http://www.wbsecl.in)
- Amendment to NIT, if any would be published on website only.
- The EMD shall be deposited online through portal via Debit card/Generated Challan.
- In case any of the dates specified above is Government holiday, day after the date shall be applicable.
- For Any Clarification : / Site Visits; Bidders may contact Mr. Mahesh Singh 7440443334

Indore S

**REC POWER DEVELOPMENT AND CONSULTANCY LIMITED**  
 (A wholly owned subsidiary of REC Ltd.)

**GLOBAL INVITATION (Through e-bidding Only) FOR SELECTION OF TRANSMISSION SERVICE PROVIDER THROUGH TARIFF BASED COMPETITIVE BIDDING (TBCB) PROCESS ON BUILD, OWN, OPERATE AND TRANSFER (BOOT) BASIS FOR ONE (1) INTER - STATE TRANSMISSION PROJECT**

REC Power Development and Consultancy Limited, New Delhi, India (a wholly owned subsidiary of REC Limited, a Maharatna Central Public Sector Undertaking) invites proposal for setting up of the below mentioned transmission project through TBCB process on Build, Own, Operate and Transfer (BOOT) basis following single stage two envelope process of "Request for Proposal (RFP)". Interested bidders may refer to the Request for Proposal (RFP) notifications and RFP documents available on our website [www.recpcdl.in](http://www.recpcdl.in) & [www.recindia.nic.in](http://www.recindia.nic.in) w.e.f. 16.03.2024.

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**Chief Executive Officer**  
 REC Power Development and Consultancy Ltd.  
 Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003, India

Bid Process Coordinator      An Initiative of      Initiative Partner

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Mint Bngluru

**Chart a course to clarity!**

AD = 16/3

# बास्केटबॉल मर्ठ पुलिस का जलवा

254

ठ। मेरठ जोन की 27 वीं अन्तर-नगरीय खेलकूद प्रतियोगिता शुरुवार को शुरू हो गयी। तीन दिन चलने वाली इस प्रतियोगिता का पहला दिन नाकआउट मुकाबलों के नाम से मरठ की महिला बास्केटबॉल टीम ने धमाकेदार आगाज करते हुए तमबुद्धनगर की टीम को एकतरफा हार में 16-0 से हराया।

पुलिस लाइन के खेल मैदान पर प्रतियोगिता का शुभारंभ आईजी रंजित केकेता झा और एसएसपी रोहित सिंह सजवाण ने किया। पहले दिन



नाकआउट मुकाबले हुए। वालीबॉल (पुरुष वर्ग) में मेरठ, गाजियाबाद, हापुड़, गौतमबुद्धनगर ने अपने अपने मैच जीतकर अगले राउंड में प्रवेश

किया। बास्केटबॉल (महिला वर्ग) में मेरठ के शानदार प्रदर्शन के बाद गाजियाबाद, हापुड़ और बुलंदशहर ने भी जीत दर्ज की।

## नौनिहालों ने दी शानदार प्रस्तुति 39 ट्रांसजेंडरों को प्रमाणपत्र जारी

ठ। मेरठ पब्लिक स्कूल, वेद व्यास में शुरुवार को कक्षा यूकेजी का गुणवत्ता समारोह का आयोजन किया गया। वहीं नौनिहालों ने रंगारंग कार्यक्रम प्रस्तुत कर सभी का ध्यान आकर्षित किया। कार्यक्रम प्रारंभ नन्हें स्कॉलर्स

के स्वागत के साथ की गई। कार्यक्रम के चलते विद्यार्थियों को ग्रेजुएशन प्रमाण पत्र देकर उनका उत्साहवर्धन किया गया। अभिभावकों व शिक्षकों ने उनकी आगामी शैक्षिक यात्रा के लिए प्रोत्साहित किया।



मेरठ। विकास भवन सभागार में शुरुवार को उभयलिंगी (ट्रांसजेंडर) लोगों के अधिकारों एवं हितों की रक्षा व कल्याणकारी योजनाओं के लिए गोष्ठी का आयोजन किया गया। कार्यक्रम उभयलिंगी व्यक्तियों के पहचान पत्र व प्रमाणपत्र जारी करने के लिए पोर्टल/वेबसाइट transgender.dosje.gov.in पर ऑनलाइन फार्म भरकर पंजीयन कराने, प्रमाणपत्र व परिचय-पत्र जारी कराने के सम्बन्ध में जागरूक किया गया। 39 ट्रांसजेंडर व्यक्तियों के प्रमाण पत्र व परिचय पत्र जारी किये गए।

594  
शनिपटे  
988 में फोरम का  
मेरठ में गठन

15 मार्च को मनाते हैं  
विश्व उपभोक्ता दिवस  
उपभोक्ता को बताए जाते हैं उनके अधिकार

न के जानकार अधिवक्ता पवन का कहना है कि उपभोक्ता ग में उत्पाद के खराब होने से डॉक्टर द्वारा की गई मेडिकल रिपोर्ट व एलआईसी, विभिन्न ब्रान्ड, एमडीएम व नामी ब्रांड इन कंपनियों सहित अनेक ब्रांडों के खिलाफ मामले फोरम में दर्ज हैं। प्रशांत गुप्ता एडवोकेट बताया कि नए संशोधन के कारण उत्पाद खराब होने पर वास का प्रावधान है।

**आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड**  
(आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी)

**वैश्विक आमंत्रण (इलेक्ट्रॉनिक बोली के माध्यम से)**  
टैरिफ के जरिये प्रतियोगिता बोली प्रक्रिया (टी. बी. सी. बी.) के अंतर्गत "एक (1) अंतर राज्तीय पारेषण परियोजनाओं" के निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) आधारित पारेषण सेवा प्रदाता के चयन हेतु

आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड, नई दिल्ली, भारत (आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी - एक "महारत्न केंद्रीय सार्वजनिक उपक्रम") नीचे उल्लिखित पारेषण परियोजना की स्थापना हेतु टी. बी. सी. बी. के अंतर्गत निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) के आधार पर प्रस्ताव हेतु अनुरोध (आरएफपी) एक चरण दो लिफाफे वाली प्रक्रिया के तहत प्रस्ताव आमंत्रित करता है। इच्छुक बोलीदाता कृपया हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर 16.03.2024 से उपलब्ध प्रस्ताव हेतु अनुरोध (आरएफपी) अधिसूचना तथा आरएफपी दस्तावेज का अवलोकन करें।

बोलीदाता, आरएफपी दस्तावेज सभी कार्य दिवसों में 10.30 बजे (भा.मा.स) से 16.00 बजे (भा.मा.स) के बीच (16.03.2024 से प्रस्ताव जमा करने की तिथि से एक दिन पहले तक) हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) और [www.recpdcl.in](http://www.recpdcl.in) पर उपलब्ध संबंधित परियोजना के आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अग्रि गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपए केवल) या \$7000 (सूएस अलर सात हजार केवल) + जीएसटी) के भुगतान पर प्राप्त कर सकते हैं।

आरएफपी दस्तावेज हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) से भी डाउनलोड किया जा सकता है। तथापि, ऐसे मामले में इच्छुक पार्टी संबंधित आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अप्रतिबंध गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपए केवल) या \$7000 (सूएस अलर सात हजार केवल) + 18% जीएसटी) का अलग से भुगतान करने पर ही आरएफपी के उत्तर में प्रस्ताव जमा कर सकते हैं। सर्व रिपोर्ट एवं आरएफपी दस्तावेजों के स्पष्टीकरण उन्हीं बोलीदाताओं को जारी किया जाएगा, जिन्होंने अपेक्षित शुल्क का भुगतान करके आरएफपी दस्तावेज प्राप्त किया या खरीदा है। इस सन्दर्भ में महत्वपूर्ण समय-सीमा इस प्रकार है:

क्र.सं.	परियोजना का नाम	स्पष्टीकरण मंगवाने की अंतिम तिथि	आरएफपी के उत्तर में प्रस्ताव जमा की अंतिम तिथि	आरएफपी प्रस्ताव खोलने का विवरण
1	पूर्वी क्षेत्र विस्तार स्कीम- XXXIX (ईआरईएस-XXXIX)	05.04.2024	20.05.2024, 1100 बजे तक (भा.मा.स)	20.05.2024, 1130 बजे तक (भा.मा.स)

बोली में सभी शुद्धिपत्र, अनुरोध, संशोधन, समय बढ़ाना आदि हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर होस्ट किए जाएंगे। नवीनतम जानकारी के लिए हमारी वेबसाइट का नियमित रूप से अवलोकन करते रहें।

नोट: आरईसीपीडीसीएल के पास बिना कोई कारण बताए तथा बिना किसी बाधता के बोली प्रक्रिया को रद्द या संशोधित करने का अधिकार सुरक्षित है। यह कोई पेशकश नहीं है।

मुख्य कार्यपालक अधिकारी  
**आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड**  
कोर- 4, स्कोप कॉम्प्लेक्स, लोधी रोड, नई दिल्ली-110003, भारत

बोली प्रक्रिया समन्वयक  
पहलकर्ता  
पहलकर्ता भागीदार

आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड  
विद्युत मंत्रालय भारत सरकार  
केन्द्रीय विद्युत प्राधिकरण

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Mindystan Merath

## सेक्स और नफटी में बिकवाली का दौर जारी

नई दिल्ली, एजेंसी। कमजोर वैश्विक बाजार रुझानों और विदेशी पूंजी की कासी के बीच घरेलू शेयर बाजारों शुक्रवार को एक बार फिर बिकवाली का दौर रहा और दोनों मानक सूचकांक पिछले प्रतिशत से अधिक गिर गए।

सेक्स 453.85 अंक की गिरावट के साथ 72,643.43 अंक पर बंद आया। कारोबार के दौरान एक समय सेक्स 612.46 अंक तक गिरकर 2,484.82 पर आ गया था।

नफटी भी 123.30 अंक गिरकर 2,023.35 अंक पर बंद हुआ। इस दौरान बाजार एक दिन फिर से बिकवाली का दौर देखा गया।

## इलेक्ट्रिक वाहन नीति को मंजूरी मिली

नई दिल्ली, एजेंसी। सरकार ने भारत को विनिर्माण गंतव्य के रूप में बढ़ावा देने के लिए शुक्रवार को इलेक्ट्रिक वाहन (ईवी) नीति को मंजूरी दे दी जिसमें न्यूनतम 50 करोड़ डॉलर (4,150 करोड़ रुपये) के निवेश के साथ देश में विनिर्माण इकाइयां स्थापित करने वाली कंपनियों को शुल्क में रियायतें दी जाएंगी।

वाणिज्य एवं उद्योग मंत्री ने कहा कि ईवी नीति के जरिये भारत को ईवी के विनिर्माण गंतव्य के रूप में बढ़ावा देने और टेस्ला समेत विभिन्न वैश्विक ईवी विनिर्माताओं से निवेश आकर्षित करने का प्रयास किया गया है।

आयात के लिए स्वीकृत ईवी की कुल संख्या पर शुल्क में दी गई रियायत उस कंपनी की निवेश राशि या

### नीति के फायदे

- नवीनतम तकनीक तक पहुंच, 'मेक इन इंडिया' पहल को बढ़ावा, अर्थव्यवस्था का विस्तार,
- स्वस्थ प्रतिस्पर्धा से ईवी परिवेश को मजबूती, कम लागत पर उत्पादन की उच्च मात्रा
- आयात में कटौती, कच्चे तेल के आयात में कमी, व्यापार घाटा कम होगा, वायु प्रदूषण कम होगा

### आयात कर में मिलेगी छूट

इलेक्ट्रिक वाहनों पर आयात शुल्क घटाकर 15 प्रतिशत कर दिया जाएगा। बशर्त ईवी की कीमत 35,000 डॉलर (लगभग 29 लाख रुपये) से अधिक न हो। वर्तमान में केंद्र सरकार भारत में लाई जाने वाली इलेक्ट्रिक कारों पर 70 से 100 प्रतिशत आयात कर वसूलती है।

पीएलआई योजना के तहत प्रोत्साहन राशि 6,484 करोड़ रुपये में से जो भी कम हो, तक सीमित होगा। इसके मुताबिक, यदि निवेश 80 करोड़ डॉलर या उससे अधिक है, तो प्रति वर्ष अधिकतम 8,000 की दर से अधिकतम 40,000 ईवी के आयात

की अनुमति होगी। इस ई-वाहन नीति के बारे में टिप्पणी करते हुए केंद्रीय मंत्री पीयूष गोयल ने कहा कि भारत जारी की गई इस नई नीति से विश्व शक्ति बनकर उभरेगा। घरेलू ही नहीं, विदेशी निर्माता भी भारत को निर्माण का केंद्र बनाएंगे।

## एलआईसी के कर्मियों का वेतन 17 प्रतिशत बढ़ेगा

नई दिल्ली, एजेंसी। सरकार ने सार्वजनिक क्षेत्र की जीवन बीमा कंपनी भारतीय जीवन बीमा निगम एलआईसी के 1.10 लाख से अधिक कर्मचारियों के वेतन में 17 प्रतिशत की बढ़ोतरी को मंजूरी दे दी है।

एलआईसी के कर्मचारियों के वेतन में बढ़ोतरी पर यह मंजूरी सार्वजनिक क्षेत्र के बैंक कर्मचारियों के लिए इसी तरह की बढ़ोतरी को मंजूरी देने के कुछ दिनों बाद आई है। देश की सबसे बड़ी बीमा कंपनी ने कहा कि

एलआईसी कर्मचारियों के लिए वेतन वृद्धि का यह फैसला एक अगस्त, 2022 से प्रभावी है। इसके साथ एलआईसी में एक अप्रैल, 2010 के बाद शामिल हुए लगभग 24,000 कर्मचारियों का एनपीएस योगदान 10 प्रतिशत से बढ़ाकर 14 प्रतिशत कर दिया गया है। एलआईसी के 30,000 से अधिक पेंशनभोगियों और पारिवारिक पेंशनभोगियों को एकमुश्त अनुग्रह भुगतान भी किया गया है।

## एयर इंडिया ने 180 कर्मचारी बाहर किए

नई दिल्ली। टाटा समूह के नियंत्रण वाली एयर इंडिया ने हाल में 180 से अधिक गैर-उड़ान कर्मचारियों को नौकरी से हटा दिया है। हालांकि एयरलाइन ने कहा कि छंटनी का शिकार लोग स्वैच्छिक सेवानिवृत्ति योजना और नए सिर से कौशल विकसित करने के अवसरों का इस्तेमाल नहीं कर पाए थे।

## आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड (आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी)

**वैश्विक आमंत्रण (इलेक्ट्रॉनिक बोली के माध्यम से) टैरिफ के जरिये प्रतियोगिता बोली प्रक्रिया (टी. बी. सी. बी.) के अंतर्गत "एक (1) अंतर राष्ट्रीय पारेषण परियोजनाओं" के निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) आधारित पारेषण सेवा प्रदाता के चयन हेतु**

आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड, नई दिल्ली, भारत (आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी - एक "भारत के राष्ट्रीय सार्वजनिक उपकरण" नीचे उल्लिखित पारेषण परियोजना की स्थापना हेतु टी. बी. सी. बी. के अंतर्गत निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) के आधार पर प्रस्ताव हेतु अनुरोध (आरएफपी) एक चरण के लिए बोली प्रक्रिया के तहत प्रस्ताव आमंत्रित करता है। इच्छुक बोलीदाता अपना पूर्ण वेबसाइट्स [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर 16.03.2024 से उपलब्ध प्रस्ताव हेतु अनुरोध (आरएफपी) अधिसूचना तथा आरएफपी दस्तावेज का अवलोकन करें।

बोलीदाता, आरएफपी दस्तावेज सभी कार्य दिवसों में 10.30 बजे (भा.मा.स) से 16.00 बजे (भा.मा.स) के बीच (16.03.2024 से प्रस्ताव जमा करने की तिथि से एक दिन पहले तक) हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) और [www.recpdcl.in](http://www.recpdcl.in) पर उपलब्ध संबंधित परियोजना के आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अंतिम गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपये केवल) या \$7000 (सبعस डालर सात हजार केवल) + 18 जीएसटी) के भुगतान पर प्राप्त कर सकते हैं।

आरएफपी दस्तावेज हमारी वेबसाइट्स [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) से भी डाउनलोड किया जा सकता है। तथापि, ऐसे मामले में इच्छुक पार्टी संबंधित आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अंतिम गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपये केवल) या \$7000 (सبعस डालर सात हजार केवल) + 18% जीएसटी) का अलग से भुगतान करने पर ही आरएफपी के उत्तर में प्रस्ताव जमा कर सकते हैं। सर्व रिपोर्ट एवं आरएफपी दस्तावेजों के स्पष्टीकरण उन्हीं बोलीदाताओं को जारी किया जाएगा, जिन्होंने अपेक्षित शुल्क का भुगतान करके आरएफपी दस्तावेज प्राप्त किया या खरीदा है। इस सन्दर्भ में महत्वपूर्ण समय-सीमा इस प्रकार है:

क्र. सं.	परियोजना का नाम	स्पर्धीकरण संभावना की अंतिम तिथि	आरएफपी के उत्तर में प्रस्ताव जमा की अंतिम तिथि	आरएफपी प्रस्ताव खोलने का दिवस
1	पूर्वी क्षेत्र विस्तार स्कीम- XXXIX (ईआरईएस-XXXIX)	05.04.2024	20.05.2024, 1100 बजे तक (भा.मा.स)	20.05.2024, 1130 बजे तक (भा.मा.स)

बोली में सभी शुद्धिपत्र, अनुरोध, संशोधन, समय बढ़ाना आदि हमारी वेबसाइट्स [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर होस्ट किए जाएंगे। नवीनतम जानकारी के लिए हमारी वेबसाइट का नियमित रूप से अवलोकन करते रहें।

नोट: आरईसीपीडीसीएल के पास बिना कोई कारण बताए तथा बिना किसी बाधता के बोली प्रक्रिया को रद्द या संशोधित करने का अधिकार सुरक्षित है। यह कोई पेशकश नहीं है।

मुख्य कार्यपालक अधिकारी  
**आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड**  
कोर- 4, स्कोप कॉम्प्लेक्स, लोधी रोड, नई दिल्ली-110003, भारत

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**कारण तथा पुनर्निर्माण एवं प्रतिभूति हित प्रवर्तन अधिनियम 2002 के टैक्स की सुपुर्दगी की अपुष्ट स्थिति के विषय में नोटिस**

सम्पत्ति की साम्यिक बंधक रखते हुये ऋण प्रदान किया गया। उधारकर्ताओं के नियम एवं के फलस्वरूप भारतीय रिजर्व बैंक के दिशानिर्देशों के अनुसार ऋण खाता एनपीए की श्रेणी में वसूली हेतु सरफेसी अधिनियम की धारा 13(2) के अन्तर्गत नीचे उल्लेखित तिथियों को पोस्ट के माध्यम से उधारकर्ताओं को भेजा गया। उक्त नोटिस की डिलीवरी की पुष्टि ऋणी या जा रहा है। ऋणी/गारन्टर/बंधककर्ता को सूचित किया जाता है कि इस मॉग नोटिस के देयों (ब्याज, वसूली व्यय एवं प्रभार आदि) को भुगतान करें अन्यथा समस्त देयों की वसूली सम्पत्ति की कब्जा एवं नीलामी प्रक्रिया प्रारम्भ करेगा। 'उधारकर्ता(ओं) का ध्यान प्रतिभूत नियम की धारा 13 की उप धारा (8) के उपबंधों की ओर आकृष्ट किया जाता है।'

बंधक सम्पत्ति का विवरण	डिमांड नोटिस की तारीख	नोटिस के अनुसार देय राशि
प्लॉट, खसरा नं० 153, माप क्षेत्रफल 200 वर्ग गज वर्ग मीटर, स्थित ग्राम- पाला साहिबाबाद, परगना एवं जिला- अलीगढ़। सीमाएँ- पूर्व: 22 फीट चौड़ा रास्ता, एवं अन्य की भूमि, उत्तर: सुरेन्द्र कुमार कश्यप का प्लॉट, एवं अन्य का खेत।	05.01.2024	₹ 7,67,353.09 + अन्य कानूनी विविध खर्च
	एनपीए की तिथि	31.03.2021

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**मिशन कारपोरेशन लि०**  
**वेदा सूचना**  
दा दो भागों में क्रम संख्या 1 पर अंकित दिनांक 15.04.2024, क्रम संख्या 5, 6 10 बजे तक आमंत्रित की जाती हैं, जिनका प्रथम शोला जायेगा। 1. अल्पकालिक निविदा ई-एस्टी-वि०पा०ख०-द्वितीय नोएडा के अंतर्गत उपखण्ड 12 माह की अवधि के लिये एक अदद हल्का नं०। धरोहर राशि: रु. 3,000/-, निविदा शुल्क: -24, अधिशासी अभियंता, विद्युत पारिषद खंड-लिये एक अदद हल्का वाहन (डीजल चालित) 1000/-, निविदा शुल्क: रु.590/-, 3. ई-निविदा वि०पा०ख०-द्वितीय नोएडा के अंतर्गत उपखण्ड 12 माह की अवधि के लिये एक अदद हल्का नं०। धरोहर राशि: रु. 3,000/-, निविदा एन./23-24, अधिशासी अभियंता, वि०पा०ख०-द्वितीय पारिषद उपखण्ड-द्वितीय के प्रयोगार्थ 12 माह लिये वाहन (चालक सहित) उपलब्ध कराने का 90/-, 5. ई-निविदा ई-टी-79/ई.टी.सी.एन./23-त 132 केवी उपकेन्द्र सेक्टर-62 नोएडा 3X63 अदद 132 केवी ट्रांसफर बस कपलर 'बे', 01 ण कार्य तथा 02 अदद 10 एमवीएअर कैपेसिटर स बार सुदृढीकरण संबंधी कार्य। धरोहर राशि: 1000/-, निविदा शुल्क: रु.590/-, 7. ई-निविदा ण्ड-द्वितीय नोएडा के अंतर्गत 132 केवी उपकेन्द्र 132mm coper XLPE cable एवं संबंधित ण राशि: रु.1,10,000/-, निविदा शुल्क 1,770/- ण नियम एवं शर्तें (ई-निविदा) हेतु वेबसाइट वेदा के परिशिष्ट/शुद्धिपत्र/निरस्तीकरण हेतु नियमित णा कारण बतायें निविदा निरस्त करने का अधिकार णब के स्थान पर एल०ई०डी० बलब का प्रयोग नोएडा, पत्रांक: 225/वि०पा०म०/नो०/Tender

1	कार्य नाम	दिल्ली मंडल पर स्विचिंग पोस्ट की मौजूदा इमारत का नवीनीकरण
2	अनुमानित लागत	Rs. 1,01,48,755.73/-
3	बयाना राशि	Rs. 2,00,800/-
4	ई-निविदा ऑनलाइन जमा करने की अवधि	27.03.2024 (10.30 बजे) से 10.04.2024 (15.00 बजे तक)
5	ई-निविदा समापन की अंतिम तथा ई-निविदा खुलने की तारीख और समय	10.04.2024 (15.00 बजे)
6	निविदा छपाई की लागत	20364203
7	वेबसाइट विवरण जहां निविदा दस्तावेजों का पूरा विवरण देखा जा सकता है	www.ireps.gov.in

निविदा संख्या : 15A-क.वि.-नई दिल्ली-2023-24 दिनांक : 14.03.2024 832/2024  
ग्राहकों की सेवा में मुस्कान के साथ

**पूर्वोत्तर रेलवे निविदा सूचना संख्या: 24 दिनांक: 15.03.2024**

**ई-प्रोक्योरमेंट के माध्यम से निविदा आमंत्रण**

प्रमुख मुख्य सामग्री प्रबन्धक, पूर्वोत्तर रेलवे, गोरखपुर-273012 कृते भारत के राष्ट्रपति तथा उनकी ओर से ई-प्रोक्योरमेंट के माध्यम से निम्नलिखित सामग्री की आपूर्ति हेतु निविदा आमंत्रित की जाती है। सामग्री का पूर्ण विवरण तथा नियम एवं शर्तें वेबसाइट [www.ireps.gov.in](http://www.ireps.gov.in) पर देखा जा सकता है।

क्रम सं०	निविदा संख्या	खुलने की तिथि	सामग्री का विवरण	आरक्षित श्रोत द्वारा
1	22241818	24/04/24	एअर फिल्टर फार 1400 एचपी डेमु ईटीसी	--
2	22241627	22/04/24	नोटर सप्लेशन यूनिट कम्पलीट ईटीसी	--
3	22230231	17/04/24	साइलेंट ब्लाक फार एंकर लिंक ईटीसी	ICF
4	22231088	17/04/24	बियरिंग फार फिएट आईआर बोगी ईटीसी	--
5	22232092A	15/04/24	अर्थिंग केबुल कम्पलीट 70 स्ववायर ईटीसी	MCF, ICF,RCF
6	22232036B	15/04/24	इमरजेन्सी ओपेनेबुल विण्डो ईटीसी	--
7	22230375	15/04/24	लेवोटरी डोर अरेजमेंट कम्पलीट (एलएच) ईटीसी	--
8	22231350	15/04/24	लोवर रिफ्रिज बीम अरेजमेंट ईटीसी	ICF
9	35240962	15/04/24	बफर असेम्बली साइड हाई ईटीसी	RDSO
10	22232156	08/04/24	सेट आफ 160 केएन एअर रिफ्रिज ईटीसी	RDSO
11	24240338	03/04/24	एक्सल बीओएन कम्पलीट ईटीसी	CLW
12	22240215A	02/04/24	एक्सल बाक्स हाउसिंग फिनिश मशीन्ड ईटीसी	ICF

मुजाहिद / S-146 प्रमुख मुख्य सामग्री प्रबन्धक गोरखपुर  
ट्रेनों में बीडी/सिगरेट न पियें

**धन : ओवैसी**  
हैदराबाद। एआईएमआईएम अध्यक्ष असदुद्दीन ओवैसी ने शुक्रवार को कहा कि चुनावी बॉन्ड के माध्यम से हमारे सिवाय सभी राजनीतिक पार्टियों को धन प्राप्त हुआ। ओवैसी ने कहा कि कोई कंपनी 'मुफ्त में' पैसा नहीं देगी। असदुद्दीन ओवैसी ने कहा, जो कंपनियां पैसा दान करती हैं, वे सिर्फ दान के लिए पैसा नहीं करतीं। इससे उनको भी फायदा होता है। जब वे (पैसा) दे रहे हैं, तब पार्टियां भी उन्हें कुछ दे (फायदा) रही हैं।

**माकपा ने निर्णय का स्वागत किया**  
नई दिल्ली। माकपा ने एसबीआई द्वारा चुनावी बॉन्ड की विशिष्ट अक्षरांकीय संख्या (यूनिक अल्फा-न्यूमेरिक नंबर) का खुलासा करने संबंधी उच्चतम न्यायालय के आदेश का शुक्रवार को स्वागत किया। पार्टी ने दावा किया कि इस कदम का अर्थ है कि कोर्ट के आदेश के महत्व को कम करने के प्रयास हुए हैं।

**मधु जल संसाधन विभाग**  
आ आमंत्रण सूचना संख्या- 16 /2023-24  
नुसार वेबसाइट ([www.eproc2.bihar.gov.in](http://www.eproc2.bihar.gov.in)) पर संवेदकों से प्रतियोगिता के लिए प्रविदा पत्रांक-813

कार्यपालक अभियंता, लघु सिंचाई प्रमंडल, पटना
दिनांक- 13.03.2024
दिनांक-19.03.2024 10:00 बजे से दिनांक-25.03.2024 के अपराह्न 05:00 बजे तक सिर्फ वेबसाइट <a href="http://www.eproc2.bihar.gov.in">www.eproc2.bihar.gov.in</a> पर।
मुख्य अभियंता, लघु जल संसाधन विभाग, पटना के कार्यालय में दिनांक-20.03.2024 को पूर्वाह्न 12:00 बजे से अपराह्न 02:00 बजे तक
दिनांक-28.03.2024 के अपराह्न 05:00 बजे तक सिर्फ वेबसाइट <a href="http://www.eproc2.bihar.gov.in">www.eproc2.bihar.gov.in</a> पर।
दिनांक-30.03.2024 के पूर्वाह्न 10:00 बजे से संबंधित प्रमंडलीय कार्यालय में।
सक्षम प्राधिकार द्वारा बाद में घोषित किया जायेगा।
120 दिन

प्रारंभिक राशि (लाख में)	अवधन की राशि (लाख में)	परिमाण-शिप का मूल्य (अप्रत्यर्पणीय) (केवल ऑन लाईन मॉड में सुपरीये) (लाख में)	बेन्ट्रिन को वेब बॉड प्रोसेसिंग मूल्य, सेवा शुल्क सहित (अप्रत्यर्पणीय) (केवल ऑन लाईन मॉड में सुपरीये) (लाख में)	कार्य पूर्ण करने की अवधि
5	6	7	8	9
205.752	4.120	10000	3590	एकरारनामा से 12 (बारह) माह

[n/prdbihar](http://n/prdbihar) पर प्राप्त की जा सकती है। कार्यपालक अभियंता, लघु सिंचाई प्रमंडल, पटना  
उपचार, दृढ़ संकल्प और परिवार से प्यार।

**आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड**  
(आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी)

**वैश्विक आमंत्रण (इलेक्ट्रॉनिक बोली के माध्यम से)**  
टैरिफ के जरिये प्रतियोगिता बोली प्रक्रिया (टी. बी. बी.) के अंतर्गत 'एक (1) अंतर राज्यीय पारिषद परियोजनाओं' के निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) आधारित पारिषद सेवा प्रदाता को चयन हेतु आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड, नई दिल्ली, भारत (आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी) - एक 'महाराष्ट्र केंद्रीय सार्वजनिक उपक्रम' नीचे उल्लिखित पारिषद परियोजना को स्थापना हेतु टी. बी. बी. के अंतर्गत निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) के आधार पर प्रस्ताव हेतु अनुरोध (आरएफपी) एक चरण दो लिफाफे वाली प्रक्रिया के तहत प्रस्ताव आमंत्रित करता है। इच्छुक बोलीदाता कृपया हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर 16.03.2024 से उपलब्ध 'प्रस्ताव हेतु अनुरोध' (आरएफपी) अधिसूचना तथा आरएफपी दस्तावेज का अवलोकन करें।  
बोलीदाता, आरएफपी दस्तावेज सभी कार्य दिवसों में 10.30 बजे (भा.मा.स) से 16.00 बजे (भा.मा.स) के बीच (16.03.2024 से प्रस्ताव जमा करने की तिथि से एक दिन पहले तक) हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) और [www.recpdcl.in](http://www.recpdcl.in) पर उपलब्ध संबंधित परियोजना के आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अप्रतिबंधित गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपए केवल) या ₹7000 (एक हजार सात हजार केवल) + 18% जीएसटी) का अलग से भुगतान पर प्राप्त कर सकते हैं।  
आरएफपी दस्तावेज हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) से भी डाउनलोड किया जा सकता है। तथापि, ऐसे मामले में इच्छुक पार्टी संबंधित आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अप्रतिबंधित गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपए केवल) या ₹7000 (एक हजार सात हजार केवल) + 18% जीएसटी) का अलग से भुगतान करने पर ही आरएफपी के उत्तर में प्रस्ताव जमा कर सकते हैं। सर्व रिपॉर्ट एवं आरएफपी दस्तावेजों के स्पष्टीकरण उन्हीं बोलीदाताओं को जारी किया जाएगा, जिन्होंने अपेक्षित शुल्क का भुगतान करके आरएफपी दस्तावेज प्राप्त किया या खरीदा है। इस सन्दर्भ में महत्वपूर्ण समय-सीमा इस प्रकार है:

क्रम सं.	परियोजना का नाम	स्पष्टीकरण मंगवाने की अंतिम तिथि	आरएफपी के उत्तर मंगवाने की अंतिम तिथि	आरएफपी प्रस्ताव खोलने का विवरण
1	पूर्वी क्षेत्र विस्तार स्कीम- XXXIX (ईआरईएस-XXXIX)	05.04.2024	20.05.2024, 11:00 बजे तक (भा.मा.स)	20.05.2024, 11:30 बजे तक (भा.मा.स)

बोली में सभी शुद्धिपत्र, अनुरोध, संशोधन, समय बढ़ाना आदि हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर होस्ट किए जाएंगे। नवीनतम जानकारी के लिए हमारी वेबसाइट का नियमित रूप से अवलोकन करते रहें।  
मुख्य कार्यपालक अधिकारी  
आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड  
कोर- 4, स्कोप कॉम्प्लेक्स, लोधी रोड, नई दिल्ली-110003, भारत

बोली प्रक्रिया समन्वयक पहलकर्ता पहलकर्ता भागीदार  
REC Power Development विद्युत मंत्रालय केन्द्रीय विद्युत प्राधिकरण  
आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड भारत सरकार  
Give a missed call on toll free number 18002003004 to get our Apps  
उजर्सी ही जीवन है इसे बचायें

Hindustan Delhi

सी) 0.50 लाख डी) PUNB07122006	बी) 15.04.2024 सी) पूर्वा. 11:00 बजे से अप. 16:00 बजे
ए) रु. 75.87 लाख बी) रु. 7.59 लाख सी) 0.20 लाख डी) PUNB07122010	ए) 16.04.2024 बी) 15.04.2024 सी) पूर्वा. 11:00 बजे से अप. 16:00 बजे
ए) रु. 14.81 लाख बी) रु. 1.49 लाख सी) 0.20 लाख डी) PUNB012612401	ए) 16.04.2024 बी) 15.04.2024 सी) पूर्वा. 11:00 बजे से अप. 16:00 बजे
ए) रु. 74.79 लाख बी) रु. 7.48 लाख सी) 0.20 लाख डी) PUNB0337102001	ए) 16.04.2024 बी) 15.04.2024 सी) पूर्वा. 11:00 बजे से अप. 16:00 बजे
ए) रु. 28.35 लाख बी) रु. 2.84 लाख सी) 0.20 लाख डी) PUNB18732002	ए) 16.04.2024 बी) 15.04.2024 सी) पूर्वा. 11:00 बजे से अप. 16:00 बजे
ए) रु. 22.50 लाख बी) रु. 2.25 लाख सी) 0.20 लाख डी) PUNB014522401	ए) 16.04.2024 बी) 15.04.2024 सी) पूर्वा. 11:00 बजे से अप. 16:00 बजे
ए) रु. 26.82 लाख बी) रु. 2.69 लाख सी) 0.20 लाख डी) PUNB00832401	ए) 16.04.2024 बी) 15.04.2024 सी) पूर्वा. 11:00 बजे से अप. 16:00 बजे

**शर्तों और निम्नलिखित**

अधिकृत अधिकारी इस उद्घोषणा में मस से की जाएगी।  
<https://epublish/app> &  
 9709848111 पर संपर्क कर  
 ज्ञात नेशनल बैंक, सुरक्षित लेनदार

कारण 10 खेलों के लिए दोबारा से आयोजित की गई है। जिम्नैटिक बालक-बालिका, तैराकी बालक-बालिका, तीरंदाजी बालक-बालिका, बास्केटबॉल बालक-बालिका समेत अन्य खेलों का जिला स्तरीय ट्रायल 17 मार्च को स्टेडियम में होगा। मंडलीय ट्रायल 18 मार्च को आयोजित किए जाएंगे।

## अजय कृष्ण को अतिरिक्त चार्ज

बरेली। मुख्यमंत्री योगी आदित्यनाथ मुरादाबाद में शनिवार को उत्तर प्रदेश स्टेट यूनिवर्सिटी का शिलान्यास करेंगे। रुहेलखंड यूनिवर्सिटी बरेली के रजिस्ट्रार अजय कृष्ण यादव को उत्तर प्रदेश राज्य विश्वविद्यालय मुरादाबाद का अतिरिक्त चार्ज दिया गया है।

## वाराणसी व अयोध्या के बीच होगा सेमीफाइनल

### फुटबॉल

बरेली, मुख्य संवाददाता। खेल छात्रावास में प्रवेश के लिए चल रही प्रदेश स्तरीय बालक फुटबॉल प्रतियोगिता में शुक्रवार को छह मैच खेले गए। स्टेडियम में हुए पहले मुकाबले में वाराणसी ने गोरखपुर को 1-0 से पराजित किया। दूसरे मैच में प्रयागराज ने मेरठ-देवीपाटन की संयुक्त टीम को 3-1 से हराया। तीसरे मैच में विध्याचल



शुक्रवार को राजकीय इंटर कॉलेज में यूपी बोर्ड परीक्षा के मूल्यांकन की ट्रेनिंग को संबोधित करते क्षेत्रीय सचिव डॉ. नीरज कुमार पाण्डेय। • हिन्दुस्तान

### यूपी बोर्ड

बरेली, मुख्य संवाददाता। यूपी बोर्ड हाईस्कूल और इंटरमीडिएट की उत्तर पुस्तिकाओं का मूल्यांकन कार्य शनिवार से शुरू होगा। बरेली में 31 मार्च तक 728963 उत्तर पुस्तिकाएं जांची जाएंगी। शुक्रवार को जीआईसी में बोर्ड के क्षेत्रीय सचिव नीरज पांडे ने उप

नियंत्रकों को निर्देश दिए। उन्होंने कहा, कॉपीयों का मूल्यांकन बेहद सतर्कता के साथ किया जाए। पहले दिन मॉडल कॉपी जांच कर सभी परीक्षकों को दे दी जाए। उन्हें समझा दिया जाए कि स्टेप टू स्टेप मार्किंग करें। जितना सही लिखा है, उसके अनुसार अंक दिए जाए। अवाई ब्लैक पर सावधानी से अंक चढ़ाए। दो बार मिलान के बाद ही अवाई ब्लैक को फाइनल किया जाए।



स्टेडियम में मैच खेलते खिलाड़ी।

**आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड**  
 (आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी)

वैश्विक आमंत्रण (इलेक्ट्रॉनिक बोली के माध्यम से)  
 टैरिफ के जरिये प्रतियोगिता बोली प्रक्रिया (टी. बी. सी. बी.) के अंतर्गत "एक (1) अंतर राज्तीय पारेषण परियोजनाओं" के निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (ड्यूट) आधारित पारेषण सेवा प्रदाता के चयन हेतु

आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड, नई दिल्ली, भारत (आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी - एक "महारल केंद्रीय सार्वजनिक उपक्रम") नीचे उल्लिखित पारेषण परियोजना की स्थापना हेतु टी. बी. सी. बी. के अंतर्गत निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (ड्यूट) के आधार पर प्रस्ताव हेतु अनुरोध (आरएफपी) एक चरण दो लिफाफे वाली प्रक्रिया के तहत प्रस्ताव आमंत्रित करता है। इच्छुक बोलीदाता कृपया हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर 16.03.2024 से उपलब्ध प्रस्ताव हेतु अनुसूची (आरएफपी) अधिसूचना तथा आरएफपी दस्तावेज का अवलोकन करें।

बोलीदाता, आरएफपी दस्तावेज सभी कार्य दिवसों में 10.30 बजे (भा.मा.स) से 16.00 बजे (भा.मा.स) के बीच (16.03.2024 से प्रस्ताव जमा करने की तिथि से एक दिन पहले तक) हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) और [www.recpdcl.in](http://www.recpdcl.in) पर उपलब्ध संबंधित परियोजना के आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अप्रतिदेय गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपए केवल) या \$7000 (सप्स डालर सात हजार केवल) + 18% जीएसटी) के मुग्तान पर प्राप्त कर सकते हैं।

आरएफपी दस्तावेज हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) से भी डाउनलोड किया जा सकता है। तथापि, ऐसे मामले में इच्छुक पार्टी संबंधित आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अप्रतिदेय गैर-वापसी योग्य शुल्क (₹5,00,000/- (पांच लाख रुपए केवल) या \$7000 (सप्स डालर सात हजार केवल) + 18% जीएसटी) का अलग से भुगतान करने पर ही आरएफपी के उत्तर में प्रस्ताव जमा कर सकते हैं। सर्व रिपोर्ट एवं आरएफपी दस्तावेजों के स्पष्टीकरण उन्हीं बोलीदाताओं को जारी किया जाएगा, जिन्होंने अपेक्षित शुल्क का भुगतान करके आरएफपी दस्तावेज प्राप्त किया या खरीदा है। इस सन्दर्भ में महत्वपूर्ण समय-सीमा इस प्रकार है:

क्र.सं.	परियोजना का नाम	स्पष्टीकरण मंगवाने की अंतिम तिथि	आरएफपी के उत्तर में प्रस्ताव जमा की अंतिम तिथि	आरएफपी प्रस्ताव खोलने का दिवस
1	पूर्वी क्षेत्र विस्तार स्कीम- XXXIX (ईआरईएस-XXXIX)	05.04.2024	20.05.2024, 11:00 बजे तक (भा.मा.स)	20.05.2024, 11:30 बजे तक (भा.मा.स)

बोली में सभी शुद्धिपत्र, अनुसूची, संशोधन, समय बढ़ाना आदि हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdcl.in](http://www.recpdcl.in) पर होस्ट किए जाएंगे। नवीनतम जानकारी के लिए हमारी वेबसाइट का नियमित रूप से अवलोकन करते रहे।

नोट: आरईसीपीडीसीएल के पास बिना कोई कारण बताए तथा बिना किसी बाधता के बोली प्रक्रिया को रद्द या संशोधित करने का अधिकार सुरक्षित है। यह कोई पेशकश नहीं है।

मुख्य कार्यपालक अधिकारी  
 आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड  
 कोर-4, स्कोपो कॉम्प्लेक्स, लोधी रोड, नई दिल्ली-110003, भारत

बोली प्रक्रिया समन्वयक: पहलकर्ता  
 आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड  
 विद्युत मंत्रालय भारत सरकार

पहलकर्ता भागीदार: केन्द्रीय विद्युत प्राधिकरण

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## भारतीय सांस्कृतिक विरासत पर दो दिनी सेमिनार आज से

बरेली। साहू रामस्वरूप महिला महाविद्यालय में भारतीय सांस्कृतिक विरासत: संवर्धन एवं चुनौतियां विषय पर सेमिनार का 16 और 17 मार्च को आयोजन होगा। प्राचार्या प्रो. अ. मेहरोत्रा ने बताया कि कार्यक्रम में केंद्र विधायक संजीव अग्रवाल मुख्य अतिथि के रूप में मौजूद रहेंगे। चैयरपर्सन कुलपति प्रो.के.पी. सिंह होंगे।

## विद्युत पेंशनर्स वेलफेयर एसोसिएशन की बैठक

बरेली। विद्युत पेंशनर्स वेलफेयर एसोसिएशन की बैठक विद्युत निरीक्षण भवन में इंजीनियर ओ.डी. यादव की अध्यक्षता में हुई। अतिरिक्त महासचिव ओमदेव बरतारिया ने बताया कि नौ मार्च को लखनऊ शक्ति भवन में पेंशनर्स अदालत में एसोसिएशन द्वारा उठाई गई समस्याओं की जानकारी सभी को दी।

Hindustan Boreilly

# नवंबर में होगा प्रवासी सम्मान समारोह

258

## दाइयों का मानदेय 600 रुपये बढ़ाया

देहरादून, मुख्य संवाददाता। मुख्यमंत्री पुष्कर सिंह धामी ने पर्वतीय क्षेत्रों में पलायन के कारणों को गहराई से अध्ययन करने के निर्देश दिए हैं। सीएम ने कहा कि सरकार वेडिंग डेस्टिनेशन नीति भी तैयार कर रही है। उन्होंने राज्य स्थापना दिवस के आस पास प्रवासी सम्मान समारोह भी आयोजित करने को कहा है।

मुख्यमंत्री पुष्कर सिंह धामी की अध्यक्षता में शुक्रवार को सचिवालय में ग्राम्य विकास एवं पलायन निवारण आयोग की 7 वीं बैठक हुई। मुख्यमंत्री ने कहा कि पर्वतीय क्षेत्रों में लोगों की

आजीविका में तेजी से वृद्धि हो उसके लिए भी व्यापक स्तर पर कार्य योजनाएं बनानी होंगी। सरकार द्वारा पर्वतीय क्षेत्रों में लघु एवं मध्यम उद्योगों को बढ़ावा दिया जा रहा है। उद्योग, पर्यटन, कृषि, बागवानी को बढ़ावा देने के प्रयास किए जा रहे हैं। उन्होंने कहा कि जो लोग रिवर्स पलायन कर राज्य के पर्वतीय क्षेत्रों में स्वरोजगार के साथ ही अन्य लोगों को भी स्वरोजगार से जोड़ रहे हैं, ऐसे लोगों को प्रोत्साहित किया जाए। उन्होंने कहा कि राज्य में वन पंचायत नियमावली को मंजूरी दी गई है। इससे ग्रामीण क्षेत्र में स्वरोजगार के साधन

उपलब्ध होंगे। मुख्यमंत्री ने कहा कि उत्तराखंड वेडिंग डेस्टिनेशन बने, इस दिशा में भी प्रयास होने चाहिए। राज्य सरकार वेडिंग डेस्टिनेशन के लिए विस्तृत नीति तैयार करने जा रही है। आयोग के उपाध्यक्ष डॉ. एसएस नेगी ने कहा कि आयोग द्वारा अब तक 21 रिपोर्ट राज्य सरकार को प्रस्तुत की जा चुकी हैं। बताया कि आयोग द्वारा स्वरोजगार को बढ़ावा दिए जाने के लिए विभिन्न स्थानों पर कार्यशालाओं का आयोजन किया गया। बैठक में उपाध्यक्ष अवस्थापना अनुश्रवण परिषद विश्वास डारब मौजूद रहे।

देहरादून। स्वास्थ्य विभाग ने अंशकालिक दाइयों का मानदेय 400 रुपये से बढ़कर 1000 रुपये मासिक कर दिया। स्वास्थ्य सचिव डॉ. आर राजेश कुमार ने शुक्रवार को इसके आदेश किए। राज्य में वर्तमान में 1323 अंशकालिक दाइयां कार्यरत हैं। केंद्र दाइयों की व्यवस्था को समाप्त कर चुकी है।

स्वास्थ्य सचिव के अनुसार परिवार कल्याण उपकेन्द्रों पर तैनात पार्ट टाइम दाइयों को वर्तमान कार्य एवं दायित्वों का भी निर्वहन किया।

## दफ्तर छोड़ मकान किराये पर लिया

### एक्सवल्सिव

#### ओमप्रकाश सती

देहरादून। वन विकास निगम में अधिकारियों पर मेहरबानी का मामला सामने आया है। अब वन निगम ने अपने दो दो सरकारी दफ्तर छोड़कर रामनगर में एक रिटायर आईएफएस का मकान किराए पर लिया है। वो भी पूरे साल के लिए 18 हजार महीने के किराए पर। हैरानी की बात है कि एमडी ने इसकी स्वीकृति भी दे दी। वो भी बिना अध्यक्ष

आरएम की ओर से इसका प्रस्ताव आया था। जिस पर स्वीकृति दी गई है। अगर वहां किराए के मकान की जरूरत नहीं हुई तो उसे रद्द करवाया जाएगा। -डॉ. एसपी सुबुद्धि, एमडी वन विकास निगम

व बिना गर्वनिंग बोर्ड की सहमति के। मामले में कर्मचारियों ने आंदोलन की चेतावनी दी है। वन निगम की ओर से खनन प्रभाग रामनगर के कार्यालय के लिए वहां मकान किराए पर लेने का प्रस्ताव मुख्यालय को भेजा था। इसमें

करीब 15 सी वर्ग फुट के मकान के लिए करीब 18 हजार रुपये प्रतिमाह किराए के लिए वित्तीय स्वीकृति मांगी गई थी। जबकि वहां पहले से निगम के दो दो दफ्तर, डिपो व अन्य सरकारी प्रतिष्ठान मौजूद हैं। एमडी डॉ. एसपी सुबुद्धि की ओर से पूरे एक साल के लिए इस मकान को किराए पर लेने के लिए 18 हजार प्रतिमाह की स्वीकृति दे दी गई है। वन विकास निगम कर्मचारी संगठन के वरिष्ठ उपाध्यक्ष प्रेम सिंह चौहान ने कहा कि किसी पूर्व अफसर का मकान किराए पर लेना गलत है।

## हाईकोर्ट ने अ संविदाकर्मियों

नैनीताल, संवाददाता। उच्च न्यायालय के हाईकोर्ट ने राज्य सरकार से प्रदेश भर में सभी विभागों में कार्यरत आउटसोर्स, संविदा सहित दैनिक वेतन कर्मचारियों का डाटा इकट्ठा कर कोर्ट में पेश करने को कहा है। ताकि इनके हित के लिए कोई योजना बनाई जा सके। डाटा देने के लिए सरकार को तीन सप्ताह का वक्त दिया गया है। वन विभाग में कार्यरत संविदा कर्मियों को न्यूनतम वेतनमान देने एवं उन्हें नियमित किए जाने को लेकर दायर याचिका पर सुनवाई करते हुए कोर्ट ने निर्देश दिए। सुनवाई मुख्य न्यायाधीश न्यायमूर्ति रितु बाहरी एवं न्यायाधीश न्यायमूर्ति राकेश थपलियाल की खंडपीठ में हुई। मामले के अनुसार, वन विभाग में

### आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड

(आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी)

मैथिलिक आमंत्रण (इलेक्ट्रॉनिक बोली के माध्यम से) टैरिफ के जरिये प्रतियोगिता बोली प्रक्रिया (टी. बी. सी. बी.) के अंतर्गत "एक (1) अंतर राज्तीय वारेषण परियोजनाओं" के निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) आधारित वारेषण सेवा प्रदाता के चयन हेतु

आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड, नई दिल्ली, भारत (आरईसी लिमिटेड के पूर्ण स्वामित्व की सहायक कंपनी - एक "महानगर केंद्रीय सार्वजनिक उपक्रम") नीचे उल्लिखित वारेषण परियोजना का स्थापना हेतु टी. बी. सी. बी. के अंतर्गत निर्माण, स्वामित्व, प्रचालन और स्थानांतरण (बूट) के आधार पर प्रस्ताव हेतु अनुरोध (आरएफपी) एक वारेषण दो लिफाफे वाली प्रक्रिया के तहत प्रस्ताव आमंत्रित करता है। इच्छुक बोलीदाता कृपया हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdd.in](http://www.recpdd.in) पर 16.03.2024 से उपलब्ध प्रस्ताव हेतु अनुरोध (आरएफपी) अधिसूचना तथा आरएफपी दस्तावेज का अवलोकन करें।

बोलीदाता, आरएफपी दस्तावेज की कार्य दिवसों में 10.30 बजे (भा.मा.स) से 16.00 बजे (भा.मा.स) के बीच (16.03.2024 से प्रस्ताव जमा करने की तिथि से एक दिन पहले तक) हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) और [www.recpdd.in](http://www.recpdd.in) पर उपलब्ध संबंधित परियोजना के आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अग्रतिथेय गैर-चापसी योग्य शुल्क (₹5,00,000/-) (पांच लाख रुपए केवल) या \$7000 (सप्स डालर सात हजार केवल) + 18% जीएसटी) के भुगतान पर प्राप्त कर सकते हैं।

आरएफपी दस्तावेज हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdd.in](http://www.recpdd.in) से भी डाउनलोड किया जा सकता है। तथापि, ऐसे मामले में इच्छुक पार्टी संबंधित आरएफपी दस्तावेज में दिए गए विवरण के अनुसार अग्रतिथेय गैर-चापसी योग्य शुल्क (₹5,00,000/-) (पांच लाख रुपए केवल) या \$7000 (सप्स डालर सात हजार केवल) + 18% जीएसटी) का अलग से भुगतान करने पर ही आरएफपी के उत्तर में प्रस्ताव जमा कर सकते हैं। सर्व रिपोर्ट एवं आरएफपी दस्तावेजों के स्पष्टीकरण उच्च बोलीदाताओं को जारी किया जाएगा, जिन्होंने अपेक्षित शुल्क का भुगतान करके आरएफपी दस्तावेज प्राप्त किया या खरीदा है। इस सन्दर्भ में महत्वपूर्ण समय-सीमा इस प्रकार है:

क्र. सं.	परियोजना का नाम	स्पष्टीकरण मंगवाने की अंतिम तिथि	आरएफपी के उत्तर प्रस्ताव जमा की अंतिम तिथि	आरएफपी प्रस्ताव खोलने का विवरण
1	पूर्वी क्षेत्र विस्तार स्कीम- XXXIX (ईआरईएस-XXXIX)	05.04.2024	20.05.2024, 1100 बजे तक (भा.मा.स)	20.05.2024, 1130 बजे तक (भा.मा.स)

बोली में सभी शुद्धिपत्र, अनुरोध, संशोधन, समय बढ़ाना आदि हमारी वेबसाइट [www.recindia.nic.in](http://www.recindia.nic.in) तथा [www.recpdd.in](http://www.recpdd.in) पर होस्ट किए जाएंगे। नवीनतम जानकारी के लिए हमारी वेबसाइट का नियमित रूप से अवलोकन करते रहें।

नोट: आरईसीपीडीसीएल के पास बिना कोई कारण बताए तथा बिना किसी बाधता के बोली प्रक्रिया को रद्द या संशोधित करने का अधिकार सुरक्षित है। यह कोई पेशकश नहीं है।

मुख्य कार्यपालक अधिकारी  
आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड  
कोर- 4, स्कोप कॉम्प्लेक्स, लोधी रोड, नई दिल्ली-110003, भारत

बोली प्रक्रिया समन्वयक: पहलकर्ता: पहलकर्ता भागीदार

आरईसी पावर डेवलपमेंट एंड कंसल्टेंसी लिमिटेड: वित्त मंत्रालय भारत सरकार: केंद्रीय विद्युत प्राधिकरण

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समूह-ग की परीक्षा 25 केंद्रों पर: हरिद्वार। उत्तराखंड लोक सेवा आयोग की प्रयोगशाला सहायक, विधि विज्ञान प्रयोगशाला (समूह ग) परीक्षा-2023 की लिखित परीक्षा का आयोजन 31 मार्च को 27 परीक्षा केंद्रों पर किया जाएगा।

## डॉ. थपलियाल चिकित्सा सेवा चयन बोर्ड के अध्यक्ष

देहरादून। डॉ. वाईएस थपलियाल उत्तराखंड चिकित्सा सेवा चयन बोर्ड के अध्यक्ष बनाए गए हैं। उन्होंने अपनी ज्वाइनिंग भी दे दी है। सरकार ने गुरुवार को यह आदेश दिए हैं। डॉ. डीएस रावत लगभग छह माह पहले बोर्ड अध्यक्ष पद से रिटायर होने के बाद यह पद खाली चल रहा था। दो दिन पहले बोर्ड के दो सदस्य डा. जेएस रावत और आरसी लोहानी भी रिटायर हो गए थे। इनकी जगह अभी नए सदस्य नहीं बनाए गए हैं। डॉ. थपलियाल आर्थोपेडिक्स सर्जन रहे हैं। वे चिकित्सा स्वास्थ्य

एवं परिवार कल्याण विभाग में कई महत्त्वपूर्ण पदों पर अपनी सेवाएं दे चुके हैं। वे देहरादून, टिहरी के सीएमओ और अल्मोड़ा के प्रभारी सीएमओ भी रहे हैं। वे मूलरूप से चमोली के जोशीमठ के रहने वाले हैं। डॉ. थपलियाल ने अध्यक्ष पद का भार संभालने के बाद कहा कि उत्तराखंड को बेहतर चिकित्सक एवं पैरामेडिकल स्टाफ उपलब्ध कराना उनकी पहली प्राथमिकता रहेगी। इससे पहले बोर्ड के परीक्षा नियंत्रक प्रो.विजय जुयाल ने पुष्प गुच्छ भेंट कर उनका स्वागत किया।



# Annexure P-8 (Colly)

**REC Power Development and Consultancy Limited**  
(Formerly known as REC Power Distribution Company Limited,  
A wholly owned subsidiary of REC Limited, a 'Maharatna CPSE'  
under Ministry of Power, Govt. of India)



**REC**  
Power Development

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Ref. No.: RECPDCL/TBCB/ERES-XXXIX/2023-24/4719

Date: 18.03.2024

**The Secretary,**  
Central Electricity Regulatory Commission,  
3<sup>rd</sup> Floor, Chandralok Building,  
36, Janpath, New Delhi – 110 001

**Subject:** Global Invitation for selection of Transmission Service Provider to establish transmission for "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)". – **Copy of RFP Notification.**

Dear Sir,

As you may kindly be aware that REC Power Development and Consultancy Limited has been appointed as Bid Process Coordinator by Ministry of Power, GoI for selection of transmission service provider on Build, Own, Operate & Transfer (BOOT) basis for the subject cited transmission projects:

Accordingly, in accordance with the provision of Clause 4.2 of "Tariff Based Competitive Bidding Guidelines for Transmission Service" issued by Ministry of Power, GoI, we would like to intimate that the RFP process for the subject cited project has been initiated by way of global invitation for selection of bidder as Transmission Service Provider in National/International newspapers on 16.03.2024. The important timelines in this regard is as below. :-

Sr. No.	Name of the Project	Last date of RFP Purchase	Last date of submission of response
1.	Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)	17.05.2024	20.05.2024 upto 11:00 Hrs (IST)

The RfP notification and RfP documents for the above project have also been posted on our websites [www.recindia.nic.in](http://www.recindia.nic.in) and [www.recpdcl.in](http://www.recpdcl.in).

In this regard, we are forwarding one copy of Request for Proposal (RfP) document of the above transmission project for your kind information and reference please.

Thanking you,

Yours faithfully,

  
(Satyabhan sahou) 18/03/24  
General Manager (Tech)

**Encl: As above**

Ref. No.: RECPDCL/TBCB/ERES-XXXIX/2023-24/4733

Date: 18.03.2024

**The Director (Transmission)**

Ministry of Power,  
Shram Shakti Bhawan, Rafi Marg,  
New Delhi – 110 001

**Subject:** Global Invitation for selection of Transmission Service Provider to establish transmission for "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)", allocated to RECPDCL to act as Bid Process Coordinator (BPC) to be implemented through Tariff Based Competitive Bidding (TBCB) process – **Copy of RFP Notification.**

Dear Sir,

As you may kindly be aware that REC Power Development and Consultancy Limited has been appointed as Bid Process Coordinator by Ministry of Power, Gol for selection of Transmission service provider on Build, Own, Operate & Transfer (BOOT) basis for subject cited transmission project.

Accordingly, we would like to intimate you that REC Power development and Consultancy Limited (RECPDCL) has issued Global Invitation in National/International newspapers on 16.03.2024 for selection of Transmission Service Provider through Tariff Based Competitive Bidding process following single stage two envelope process of "Request for Proposal" for above mentioned Transmission Project. The important timelines in this regard is as below: -

Sr. No.	Name of the Project	Last date of RFP Purchase	Last date of submission of response
1.	"Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)".	17.05.2024	20.05.2024 upto 11:00 Hrs (IST)

The RfP notification and RfP document for the above project have also been posted on our websites [www.recindia.nic.in](http://www.recindia.nic.in) and [www.recpdcl.in](http://www.recpdcl.in).

In line with provision of Clause 9 of 'Tariff Based Competitive Bidding Guidelines for Transmission Service', the RFP notification is also required to be published on MoP's website. Accordingly, we are attaching herewith Global Invitation (in English & Hindi) with a request to arrange uploading of the same on Ministry's website at the earliest.

In this regard, we are forwarding one copy of Request for Proposal (RfP) document of the above transmission project for your kind information and reference please.

Thanking you,

Yours faithfully,

262

*Satyabhan Sahoo*  
(Satyabhan Sahoo) 18/03/24  
General Manager (Tech)

Encl: As above

**Copy for kind information to:**

**The Joint Secretary (Transmission):**  
Ministry of Power,  
Shram Shakti Bhawan, Rafi Marg,  
New Delhi – 110 001

along with one copy of RfP document

# Annexure P-9

Amendment – I dated 22.03.2024, RFP documents for selection of bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing Provisions	New/Revised Provisions
1.	Definitions of Availability of Article 1.1.1 of TSA	<p>“<b>Availability</b>” in relation to the Project or in relation to any Element of the Project, for a given period shall mean the time in hours during that period the Project is capable to transmit electricity at its Rated Voltage and shall be expressed in percentage of total hours in the given period and shall be calculated as per the procedure contained in <u>Appendix –II to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019</u>, attached herewith in Schedule 6;</p>	<p>“<b>Availability</b>” in relation to the Project or in relation to any Element of the Project, for a given period shall mean the time in hours during that period the Project is capable to transmit electricity at its Rated Voltage and shall be expressed in percentage of total hours in the given period and shall be calculated as per the procedure contained in <u>Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024</u>, attached herewith in Schedule 6;</p>
2.	Article 8.1 of TSA	<p><b>Calculation of Availability of the Project:</b> Calculation of Availability for the Elements and for the Project, as the case may be, shall be as per <u>Appendix –II to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019</u>, as applicable on the Bid Deadline and as appended in Schedule 6 of this Agreement.</p>	<p><b>Calculation of Availability of the Project:</b> Calculation of Availability for the Elements and for the Project, as the case may be, shall be as per <u>Appendix – IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024</u>, as applicable on the Bid Deadline and as appended in Schedule 6 of this Agreement.</p>
3.	Article 11.7 (c) of TSA	<p>For the avoidance of doubt, it is clarified that the computation of Availability of the Element(s) under outage due to Force Majeure Event, as per Article 11.3 affecting the TSP shall be as per <u>Appendix –II to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2019</u> as on Bid Deadline. For the event(s) for which the Element(s) is/are deemed to be available as per <u>Appendix –II to Central Electricity Regulatory</u></p>	<p>For the avoidance of doubt, it is clarified that the computation of Availability of the Element(s) under outage due to Force Majeure Event, as per Article 11.3 affecting the TSP shall be as per <u>Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024</u> as on Bid Deadline. For the event(s) for which the Element(s) is/are deemed to be available as per <u>Appendix –IV to Central Electricity Regulatory Commission (Terms and</u></p>

Sl. No.	Clause No.	Existing Provisions	New/Revised Provisions
		<p style="text-align: center;"><b>204</b></p> <p><b><u>Commission (Terms and Conditions of Tariff) Regulations, 2019</u></b>, then the Transmission Charges, as applicable to such Element(s), shall be payable as per Schedule 4, for the duration of such event(s).</p>	<p><b><u>Conditions of Tariff) Regulations, 2024</u></b>, then the Transmission Charges, as applicable to such Element(s), shall be payable as per Schedule 4, for the duration of such event(s).</p>
4.	<b>Schedule: 6 of TSA</b>	Existing Schedule 6 of TSA	New/Revised Schedule 6 <b>(Annexure – 1 enclosed herewith)</b>

## Schedule: 6

Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of  
Tariff) Regulations, 2024Procedure for Calculation of Transmission System  
Availability Factor for a Month

1. Transmission system availability factor for nth calendar month (“TAFPn”) shall be calculated by the respective transmission licensee, verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges. In the case of the AC system, transmission System Availability shall be calculated separately for each Regional Transmission System and inter-regional transmission system. In the case of the HVDC system, transmission System Availability shall be calculated on a consolidated basis for all inter-state HVDC systems.
2. Transmission system availability factor for nth calendar month (“TAFPn”) shall be calculated by considering the following:
  - i) **AC transmission lines:** Each circuit of AC transmission line shall be considered as one element;
  - ii) **Inter-Connecting Transformers (ICTs):** Each ICT bank (three single-phase transformers together) shall form one element;
  - iii) **Static VAR Compensator (SVC):** SVC, along with SVC transformer, shall form one element;
  - iv) **Bus Reactors or Switchable line reactors:** Each Bus Reactors or Switchable line reactors shall be considered as one element;
  - v) **HVDC Bi-pole links:** Each pole of the HVDC link, along with associated equipment at both ends, shall be considered as one element;
  - vi) **HVDC back-to-back station:** Each block of the HVDC back-to-back station shall be considered as one element. If the associated AC line (necessary for the transfer of inter-regional power through the HVDC back-to-back station) is not available, the HVDC back-to-back station block shall also be considered unavailable;
  - vii) **Static Synchronous Compensation (“STATCOM”):** Each STATCOM shall be considered as a separate element.
3. The Availability of the AC and HVDC portion of the Transmission system shall be calculated by considering each category of transmission elements as under:

**TAFPn (in %) for AC system:**

$$= \frac{(\text{o} \times \text{AVo}) + (\text{p} \times \text{AVp}) + (\text{q} \times \text{AVq}) + (\text{r} \times \text{AVr}) + (\text{u} \times \text{AVu})}{(\text{o} + \text{p} + \text{q} + \text{r} + \text{u})} \times 100$$

Where,

- o** = Total number of AC lines.
- AVo** = Availability of o number of AC lines
- p** = Total number of bus reactors/switchable line reactors
- AVp** = Availability of p number of bus reactors/switchable line reactors
- q** = Total number of ICTs
- AVq** = Availability of q number of ICTs
- r** = Total number of SVCs
- AVr** = Availability of r number of SVCs
- u** = Total number of STATCOM
- AVu** = Availability of u number of STATCOM

**TAFMn (in %) for HVDC System:**

$$= \frac{\sum_{x=1}^s \text{Cxbp (act)} \times \text{AVxbp} + \sum_{y=1}^t \text{Cy (act)btb} \times \text{AVybtb}}{\sum_{x=1}^s \text{Cxbp} + \sum_{y=1}^t \text{Cy btb}} \times 100$$

Where

- Cxbp(act)** = Total actual operated capacity of x<sup>th</sup> HVDC pole
- Cxbp** = Total rated capacity of x<sup>th</sup> HVDC pole
- AVxbp** = Availability of x<sup>th</sup> HVDC pole
- Cybtb(act)** = Total actual operated capacity of y<sup>th</sup> HVDC back-to-back station block
- Cybtb** = Total rated capacity of y<sup>th</sup> HVDC back-to-back station block
- AVybtb** = Availability of y<sup>th</sup> HVDC back-to-back station block
- s** = Total no of HVDC poles
- t** = Total no of HVDC Back to Back blocks

4. The availability for each category of transmission elements shall be calculated based on the weightage factor, total hours under consideration and non-available hours for each element of that category. The formulae for calculation of the Availability of each category of the transmission elements are as per **Appendix-V**. The weightage factor for each category of transmission elements shall be considered as under:
- (a) For each circuit of the AC line – The number of sub-conductors in the line multiplied by ckt-km;
  - (b) For each HVDC pole- The rated MW capacity x ckt-km;
  - (c) For each ICT bank – The rated MVA capacity;
  - (d) For SVC- The rated MVAR capacity (inductive and capacitive);
  - (e) For Bus Reactor/switchable line reactors – The rated MVAR capacity;
  - (f) For HVDC back-to-back stations connecting two Regional grids- Rated MW capacity of each block; and
  - (g) For STATCOM – Total rated MVAR Capacity.
5. The transmission elements under outage due to the following reasons shall be deemed to be available:
- i. Shut down availed for maintenance of another transmission scheme or construction of new element or renovation/upgradation/additional capitalization in an existing system approved by the Commission. If the other transmission scheme belongs to the transmission licensee, the Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved. In case of a dispute regarding deemed availability, the matter may be referred to the Chairperson, CEA, within 30 days.
  - ii. Switching off of a transmission line to restrict over-voltage and manual tripping of switched reactors as per the directions of the concerned RLDC.
  - iii. Shut down of a transmission line due to the Project(s) of NHAI, Railways and Border Road Organization, including for shifting or modification of such transmission line or any other infrastructure project approved by Ministry of Power. Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved; Provided that apart from the deemed availability, any other costs involved in the process of such shutdown of transmission line shall not be borne by the DICs.

Provided that such deemed availability shall be considered only for the period for which DICs are not affected by the shutdown of such transmission line.

6. For the following contingencies, the outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the total time of the element under the period of consideration for the following contingencies:
- i) Outage of elements due to force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by the Member Secretary, RPC, and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available;
  - ii) Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in a substation or bays owned by another agency causing an outage of the transmission licensee's elements, and tripping of lines, ICTs, HVDC, etc., due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC's direction for restoration;
  - iii) The outage period which can be excluded for the purpose of sub-clause (i) and (ii) of this clause shall be declared as under:
    - a. Maximum up to one month by the Member Secretary, RPC;
    - b. Beyond one month and up to three months after the decision at RPC;
    - c. Beyond three months by the Commission for which the transmission license shall approach the Commission along with reasons and steps taken to mitigate the outage and restoration timeline.
7. Time frame for certification of transmission system availability: (1) The following schedule shall be followed for certification of availability by the Member Secretary of the concerned RPC:
- Submission of outage data along with documentary proof (if any) and TAFPn calculation by Transmission Licensees to RLDC/ constituents
    - By the 5<sup>th</sup> of the following month;
  - Review of the outage data by RLDC / constituents and forward the same to respective RPC – by 20<sup>th</sup> of the month;
  - Issue of availability certificate by respective RPC – by the 3<sup>rd</sup> of the next month.

## Appendix-V

FORMULAE FOR CALCULATION OF AVAILABILITY OF EACH CATEGORY  
OF TRANSMISSION ELEMENTS

For AC transmission system

$$AV_o(\text{Availability of } o \text{ no. of AC lines}) = \frac{\sum_{i=1}^o W_i(T_i - TN_{Ai})/T_i}{\sum_{i=1}^o W_i}$$

$$AV_q(\text{Availability of } q \text{ no. of ICTs}) = \frac{\sum_{k=1}^q W_k(T_k - TN_{Ak})/T_k}{\sum_{k=1}^q W_k}$$

$$AV_r(\text{Availability of } r \text{ no. of SVCs}) = \frac{\sum_{l=1}^{r-1} W_l(T_l - TN_{Al})/T_l}{\sum_{l=1}^r W_l}$$

$$AV_p(\text{Availability of } p \text{ no. of Switched Bus reactors}) = \frac{\sum_{m=1}^p W_m(T_m - TN_{Am})/T_m}{\sum_{m=1}^p W_m}$$

$$AV_u(\text{Availability of } u \text{ no. of STATCOMs}) = \frac{\sum_{n=1}^u W_n(T_n - TN_{An})/T_n}{\sum_{n=1}^u W_n}$$

$$AV_{x_{bp}}(\text{Availability of an individual HVDC pole}) = \frac{(T_x - TN)}{T_x}$$

$AV_{y_{btb}}$  (Availability of an individual HVDC

$$\text{Back-to-back Blocks}) = \frac{(T_y - TN_{Ay})}{T_y}$$

**For the HVDC transmission system**

For the new HVDC commissioned but not completed twelve months;

For first 12 months:  $[(AV_{xbp} \text{ or } AV_{ybtb}) \times 95\%/85\%]$ , subject to a ceiling of 95%.

Where,

$o$	=	Total number of AC lines;
$AV_o$	=	Availability of $o$ number of AC lines;
$p$	=	Total number of bus reactors/switchable line reactors;
$AV_p$	=	Availability of $p$ number of bus reactors/switchable line reactors;
$q$	=	Total number of ICTs;
$AV_q$	=	Availability of $q$ number of ICTs;
$r$	=	Total number of SVCs;
$AV_r$	=	Availability of $r$ number of SVCs;
$U$	=	Total number of STATCOM;
$AV_u$	=	Availability of $u$ number of STATCOMs;
$W_i$	=	Weightage factor for $i$ th transmission line;
$W_k$	=	Weightage factor for $k$ th ICT;
$W_l$	=	Weightage factors for inductive & capacitive operation of $l$ th SVC;
$W_m$	=	Weightage factor for $m$ th bus reactor;
$W_n$	=	Weightage factor for $n$ th STATCOM.
$T_i, T_k, T_l,$ $T_m, T_n, T_x,$ $T_y$	=	The total hours of $i$ th AC line, $k$ th ICT, $l$ th SVC, $m$ th Switched Bus Reactor & $n$ th STATCOM, $x$ th HVDC pole, $y$ th HVDC back-to-back blocks during the period under consideration (excluding time period for outages not attributed to transmission licensee for the reasons given in Para 5 of the procedure)
$T_{NAi}, T_{NAk}$	=	The non-availability hours (excluding the time period for outages not attributable to transmission licensee taken as deemed availability as $T_{NAi}, T_{NAk}, T_{NAx}, T_{NAy}$ per Para 5 of the procedure) for $i$ th AC line, $k$ th ICT, $l$ th SVC, $m$ th Switched Bus Reactor, $n$ th STATCOM, $x$ th HVDC pole and $y$ th HVDC back-to-back block.

**BEFORE THE HON'BLE CENTRAL ELECTRICITY  
REGULATORY COMMISSION, AT NEW DELHI**

**PETITION NO. \_\_/TL/2024**

**IN THE MATTER OF:**

Application under Section 14, 15, 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other Related Matters) Regulation, 2024 and any other amendments thereon issued from time to time by this Hon'ble Commission, if any, for grant of Transmission License to Eastern Region Expansion Scheme – XXXIX Power Transmission Limited.

**IN THE MATTER OF:**

ERES-XXXIX Power Transmission Limited ...Petitioner

**VERSUS**

Central Transmission Utility of India Limited & Ors. ...Respondents

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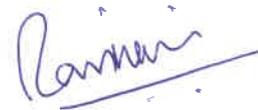
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10.	<b>Annexure P-19 (colly.)</b> The copy of the letter dated 10.05.2024 w.r.t constitution of bid evaluation committee alongwith copy of email dated 05.09.2024	438-442
11.	<b>Annexure P-20 (Colly)</b> The copies of the amendments of the RfP issued by REC on 18.05.2024, 29.05.2024, 12.06.2024, 03.07.2024, 18.07.2024, 27.07.2024, 07.08.2024, 22.08.2024, 04.09.2024, 09.09.2024 and 19.09.2024	443-469
12.	<b>Annexure P-21 (Colly)</b> Copies of the Additional Clarifications to the RfP issued by the REC on 14.06.2024, 22.07.2024, 16.08.2024 and 04.09.2024	470-570

**THROUGH:**



**SAGUS LEGAL**

Advocates for Petitioner

ERES-XXXIX Power Transmission Limited

B-7/8, Ground Floor, Safdarjung Enclave,

New Delhi-110029

Email Id: [service@saguslegal.com](mailto:service@saguslegal.com)

Contact No. 011-46552925

**Place: New Delhi**

**Date: 21.11.2024**

# Annexure P-10 (Colly)

Ref No: RECPDCL/TBCB/ERES-XXXIX/2024-25/82

Date: 08.04.2024

**Mr. Rajat Uprety BD Manager**  
**M/s The Tata Power Company Limited**  
Shatabdi Bhawan, B-12 & 13, Sector 4  
Noida, UP-201301

**Subject:** Issuance of RFP documents & survey Report for selection of Transmission Service Provider to establish "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through Tariff Based Competitive Bidding process.

**Ref:** Your email dated 05.04.2024.

Dear Sir,

This is in reference to your email referred above therein enclosing details of fund of Rs. 5,90,000.00 (Rupees Five Lakh Ninety Thousand only) (inclusive of 18% GST) transferred through online mode (UTR no – N096242971935993 dated 05.04.2024), therein requesting to issue the RFP document for selection of Transmission Service Provider to establish "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through tariff based competitive bidding (TBCB) process.

With reference to above & your request for issuance of RFP Project Documents, please find enclosed herewith the following documents:

1. Copy of Request for Proposal (RFP) document.
2. Copy of Draft Transmission Service Agreement (TSA) - (Enclosure 1 of Annexure-20 of RFP),
3. Copy of Draft Share Purchase Agreement (SPA) - (Enclosure 2 of Annexure-20 of RFP).
4. One CD containing soft copy of RFP (.pdf & .doc), TSA (.pdf), SPA (.pdf).
5. The survey report along with Route Alignment Drawings and one CD containing soft copy of Survey Report and Route Alignment drawings.

We look forward to your participation in the aforesaid bidding process.

Thanking you,

Yours faithfully,

  
(Satyabhan Sakoo) 08/04/24  
General Manager (Tech.)

**Encl: As above**



## **SURVEY REPORT & RA DRAWINGS**

for

**Eastern Region Expansion Scheme (XXXIX)**



**REC Power Development and Consultancy Limited**

**D- Block, REC Corporate Headquarter,  
Plot No. I-4, Sector-29, Gurugram-122001**

**Regd. Office: Core 4, Scope Complex, 7,  
Lodhi Road, New Delhi – 110003**

*Website: [www.recpdcl.in](http://www.recpdcl.in)*

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**1. Scope of Work**

**Name of the Transmission Scheme:** Eastern Region Expansion Scheme – XXXIX (ERES-XXXIX)

Sl. No.	Details of Transmission Elements	Capacity/km
1	<p>Establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha</p> <p><b>Additional space for future expansion:-</b></p> <ul style="list-style-type: none"> <li>• 765/400kV, 4x1500MVA ICTs (12x500MVA single phase units) along with associated ICT bays at both voltage levels.</li> <li>• 400/220kV, 4x500MVA ICTs along with associated ICT BAYS at both voltage levels</li> <li>• 765kV, 2x330MVA (6x110MVA single phase units) bus reactor along with associated bays</li> <li>• 420kV, 2x125MVA bus reactor along with associated bays</li> <li>• 8 nos. of 765kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 10 nos. of 400kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 12 nos. of 220kV line bays for future lines</li> <li>• 765kV bus sectionalize bay: 1 set</li> <li>• 400kV bus sectionalize bay: 1 set</li> <li>• 220kV bus sectionalize bay: 1 set</li> </ul> <p>220kV bus coupler bay: 2nos.</p>	<ul style="list-style-type: none"> <li>• 765/400kV, 1500MVA ICTs: 2 Nos. (7x500MVA single phase units including one spare)</li> <li>• 765 kV ICT bays: 2 Nos.</li> <li>• 400 kV ICT bays: 2 Nos.</li> <li>• 765 kV, 330 MVRr Bus reactor: 2 Nos. (7x110MVA single phase units including one spare unite for both bus and line reactors)</li> <li>• 765kV Bus reactor bays: 2 Nos.</li> <li>• 420 kV, 125MVA Bus reactor: 2Nos.</li> <li>• 400 kV line bays: 2 Nos [ for termination of Angul (POWERGRID) – Gopalpur 765kV D/c line along with 765 kV, 1x330 MVRr switchable line reactor at Gopalpur end in both circuits]</li> <li>• 400kV line bays: 2 Nos. [ for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line]</li> <li>• 765kV, 330 MVA (3x110MVA single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) [ at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765kV D/c line]: 2Nos.</li> </ul>
2	Angul – Gopalpur 765kV D/c line	
3	Extension at 765kV level at Angul (POWERGRID) S/s including bus extension in GIS	765kV GIS/Hybrid line bays(along with space for future switchable line reactor): 2Nos. [for termination of Angul(POWERGRID) – Gopalpur 765kV D/c line] Including bus extension in GIS of about 3000m.
4	Gopalpur – Gopalpur (OPTCL) 400kV D/c(Quad) line	
5	Extension at 400kV level at Gopalpur (OPTCL) GIS S/s	400kV GIS line bays: 2Nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 D/c (Quad) line] 2 Nos. For diameter completion

## 2.0 Approach & Methodology

### (i) Land requirement for Substation:

The area required for proposed Gopalpur substation is approximately 55 Acres.

### (ii) Identification of land for 765/400kV, 2x1500MVA GIS substation at Gopalpur

The Land has been identified at Village: Srirampur, Taluka: Chhatrapur, District: Ganjam State: Odisha

### (iii) Benefits from the selected land:

- I. Proposed land is along with the road for smooth movement of construction machines, equipments and transformers.
- II. The identified location for proposed substation has been selected to avoid soil filling.

## 2. Geographical

According to Census 2011 information the location code or village code of Sriramapur village is 412093. Sriramapur village is located in Chhatrapur tehsil of Ganjam district in Odisha, India. It is situated 10km away from sub-district headquarter Chhatrapur (tehsildar office) and 10km away from district headquarter Chhatrapur. As per 2009 stats, Bhikarpalli is the gram panchayat of Sriramapur village.

The total geographical area of village is 646 hectares. Sriramapur has a total population of 2,603 peoples, out of which male population is 1,306 while female population is 1,297. Literacy rate of sriramapur village is 56.86% out of which 69.53% males and 44.10% females are literate. There are about 634 houses in sriramapur village. Pin code of sriramapur village locality is 761020.

Chhatrapur is nearest town to sriramapur for all major economic activities, which is approximately 5km away.

### Soil

Ganjam soil consists of Sandy Loam, Loam Costal alluvium and Saline soil in few patches in coastal plains in eastern parts. Where as in North Eastern Ghats have.

### Climate: -

Located at an elevation of None meters (0 feet) above sea level, Ganjam has a Tropical wet and dry or savanna climate (Classification: Aw). The district's yearly temperature is 29.37°C (84.87°F) and it is 3.4% higher than India's averages. Ganjam typically receives about 147.14 millimeters (5.79 inches) of precipitation and has 144.74 rainy days (39.65% of the time) annually.

**SECTION: 2**

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## Coordinates of proposed substation

Establishment of new 765/400kV, 2x1500MVar GIS substation at Gopalpur in Odisha						
	Corner	Easting	Northing	Latitude	Longitude	Altitude
Village: Sriramapur Tehsil: Chhatrapur District: Ganjam State: Odisha	Corner- 1	284437.91 E	2144992.94 N	19°23'15.21"N	84°56'50.81"E	66.40
	Corner-2	284786.88 E	2144886.07 N	19°23'11.87"N	84°57'2.81"E	69.15
	Corner -3	284615.09 E	2144307.11 N	19°22'52.98"N	84°56'57.16"E	69.21
	Corner -4	284259.13 E	2144415.92 N	19°22'56.38"N	84°56'44.92"E	66.82

**Note:** The substation shall not be beyond 3 km radius of the proposed location.

**Information of Proposed Substation of 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha**

S. No.	Criterion	Proposed Substation	
		Latitude	Longitude
1.0	Land Co-ordinates		
	Corner 1	19°23'15.21"N	84°56'50.81"E
	Corner 2	19°23'11.87"N	84°57'2.81"E
	Corner 3	19°22'52.98"N	84°56'57.16"E
	Corner 4	19°22'56.38"N	84°56'44.92"E
1.1	Size (Acre) (mtr x mtr,)	Approx. 55 Acre (700 mtr X 318 mtr)	
1.2	Govt. /Private/Forest land	Private Land	
1.3	Forest details	Nil	
1.4	Agriculture/Waste land	Agriculture	
1.5	Development	Nil	
1.6	Approximate cost		
	a. Circle rate per Acre	3.33 - 4.0 Lakh	
	b. market rate per Acre	14 - 16 Lakh	
	c. Approx. cost of the land	Approx. 2.20 Crores	
1.7	Terrain	Plain with obstacle Levelling is required in land area	
1.8	Type of soil	Sandy Loam, Loam Costal alluvium and Saline soil	
1.9	No. of Owners	Approx. 65 Nos.	
1.10	Environment/Pollution in the vicinity	36 µg/m <sup>3</sup>	
1.11	Location with reference to nearest town	Chhatarpur	
1.12	Highest Flood Level (HFL) Data	47.45 above MSL	
1.13	Diversion of Nallah/Canal required	Nil	
1.14	Slope	Nil	
1.15	Approximate Extent of leveling required (in meter)	Approx. 2 meters (filling is not required in land area)	
1.16	Land acquisition feasibility	Yes	
1.17	Rate of Govt. Land	Approx. 3.33 - 4.0 Lakh	
1.18	No. of Owners	Approx. 65 Nos.	
1.19	Extent of approach	Yes	
1.20	Planned/unplanned development	Nil	
1.21	Size of sites (Mtr x Mtr)	Approx. 700 X 318	
1.22	No. of families to be displaced	No families to be displaced	
1.23	Level of site with reference to road level		
	a. Level of road	70.2 m. Above MSL	
	b. Level of site	68.4m. Above MSL	
1.24	Distance from sea shore	8.1 Km (Arial distance) from Arabian Sea	
1.25	Approach	PWD Road	
1.26	Logistics Survey	1.2 Km from SH-36	

S. No.	Criterion	Proposed Substation
2.0	Obstacles in reaching site	Nil
2.1	Nearby main road	Along the road
2.2	Length of approach road to be constructed	Not required
2.3	Name of nearest airport (name)/ Distance from main road	<b>Rengeilunda Air Strip /12.2Km. From main road.</b>
2.4	Name of nearest Rail head	Chhatrapur (East coast Railway)
2.5	Upcoming Aviation/Airport zone/Air force Station/Airstrips	Nil
2.6	Availability of ground water	Yes
2.7	Availability of transmission corridor (entry of line And exit of lines)(Three /four sides)	Four Sides
2.8	Existence of structures/dwelling units in the land of the proposed site	Nil
2.9	Availability of disposal of rain/storm water	Available
2.10	Crops grown and types (multi-crop/single crop)	Single
2.11	Nearest railway station (BG/G)	Chhatrapur (BG)
2.12	Unloading facility at railway station	Chhatrapur (BG)
2.13	No. of Culverts required for approach	Nil
2.14	Nearest EHV line/Nearest sub-station	132kV Chhatrapur OPTCL Grid
2.15	Length of line between this site and nearest substation for construction power at 33/11 kV	3.0 KM from to Chhatrapur 33/11kV Substation.
2.16	Frontage for line take off	Available
2.17	Telephone/Telegraph line	Nil
3.0	Community Facilities	Available
3.1	Drinking Water	Available
3.2	Drainage	Nil
3.3	Distance from a. Post Office b. Telephone line c. School d. Market	a. 3.0 KM from Sundarpur P.O. b. 6.1 KM from Telephone line c. 2.2 KM from School d. 3.1 KM from Sundarpur market
3.4	Security arrangement	Nil
3.5	Availability of construction water	Available
3.6	Availability of drinking water	Available
4.0	Seismic zones	Zone-II
5.0	Army cantonment / mining/ No Go areas	Nil

**Conclusion and Recommendations**

After initial inspection of physical maps updated with satellite images and field visits and considering Proposed site location for 765/400 kV Substation at suitable location near Srirampur (Distt. Ganjam). Which are given in the Topo sheet, were explored best from economical construction point of view. Special attention has been given to the lines take off positions, least crossing (i.e., River Crossing, Railway Crossing National & State Highway and Habitation including plantations). After detailed analysis, proposed has been observed as most viable for its good approach for construction and maintenance at the present condition. Finally, the proposed marked Red Color in the drawing as proposed best for establishment of new 765/400kV, 2x1500MVAr GIS substation at Srirampur Village, Chhatrapur Tehsil in Ganjam District, of Odisha.

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**SECTION: 3**

**CHAPTER-3.0**

**Angul – Gopalpur 765kV D/c line**

**CHAPTER-3.1**  
**CO-ORDINATES OF THE SUBSTSTION**

**Substation Detail**

Name of the Substation	Coordinates	
	UTM	Lat-Long
<b>Proposed 765/400kV, 2x1500MVAr GIS substation at Gopalpur in Odisha</b>  Village: Srirampur Tehsil: Chhatrapur District: Ganjam State: Odisha	0284476.04 E 2144888.25 N	19°23'11.8"N 84°56'52.2"E
<b>Existing 765/400 kV Sub-Station Angul (PGCIL)*</b>  Village:Kansanali Tehsil: Angul District: Angul State: Odisha	0307164.00 E 2293718.03N	20°43'59.3" N 85°08'53.0"E

\* The exact coordinates for construction of 2 nos. of 765 kV line bays at Angul (PGCIL) for termination of Angul – Gopalpur 765kV D/c line has to be obtained from the substation owner during execution stage.

**CHAPTER-3.2**

**INDEX OF TOPO SHEETS**



**CHAPTER-3.3**

**CO-ORDINATES OF THE PROPOSED ROUTE**

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
GNT	307164	2293718	20°43'59.3"	85°8'53"		0	0°00'00.0"		Existing 765/400 kV Sub-Station at Angul (PGCIL)	129.5	WZ-IV
					119						
AP1	307047	2293699	20°43'58.6"	85°8'48.9"		119	27°27'18.2"	LT		128.8	WZ-IV
					241						
AP2	306853	2293555	20°43'53.9"	85°8'42.3"		360	45°49'44.2"	LT		135.8	WZ-IV
					437						
AP3	306796	2293122	20°43'39.8"	85°8'40.5"		797	27°36'11.1"	LT		139.5	WZ-IV
					809						
AP4	307073	2292362	20°43'15.2"	85°8'50.4"		1606	38°27'17"	LT		134.4	WZ-IV
					941						
AP5	307875	2291869	20°42'59.5"	85°9'18.3"		2547	24°23'27.3"	RT		132.4	WZ-IV
					214				Extn. 400kV D/C Jindal Thermal Power Plant - Angul (PGCIL) Trans. Line, JTPL		
AP6	307995	2291692	20°42'53.7"	85°9'22.5"		2761	7°26'43.4"	LT		134.2	
					2603						
AP7	309720	2289742	20°41'51"	85°10'22.9"		5364	23°46'31.5"	LT		127.7	WZ-IV
					398						
AP8	310082	2289576	20°41'45.7"	85°10'35.4"		5762	44°22'16.6"	RT		129.1	WZ-IV
					329				Eco-sensitive Zone (Satkosia Tiger Reserved)		
AP9	310199	2289268	20°41'35.8"	85°10'39.6"		6091	4°26'43.8"	LT		128.2	WZ-IV
					273				Eco-sensitive Zone (Satkosia Tiger Reserved)		
AP10	310316	2289022	20°41'27.8"	85°10'43.7"		6364	0°9'52.5"	RT		132	WZ-IV

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
					212				Eco-sensitive Zone (Satkosia Tiger Reserved), SH-64		
AP11	310406	2288830	20°41'21.6"	85°10'46.9"		6576	34°27'56.8"	LT		132.5	WZ-IV
					257				Extn. 220kV D/C Meramondali Grid - OPTCL Kanteipalli GRID SS Trans. Line, OPTCL, Eco-sensitive Zone (Satkosia Tiger Reserved)		
AP12	310628	2288700	20°41'17.4"	85°10'54.7"		6833	51°23'55.5"	RT		134.8	WZ-IV
					1981				Hill area		
AP13	310914	2286739	20°40'13.8"	85°11'5.3"		8814	31°28'50.5"	RT		203	WZ-IV
					778				Kai RF, Hill area		
AP14	310607	2286024	20°39'50.4"	85°10'55"		9592	32°31'7.1"	LT		244	WZ-IV
					418				Hill area, Kai RF, Elephant Reserve area		
AP15	310675	2285611	20°39'37"	85°10'57.5"		10010	13°56'40.8"	RT		399	WZ-IV
					751				Elephant Reserve area, Kai RF & Hill		
AP16	310614	2284863	20°39'12.7"	85°10'55.7"		10761	18°50'20.5"	LT		196.4	WZ-IV
					651				Elephant Reserve area, Kai RF & Hill		
AP17	310774	2284232	20°38'52.2"	85°11'1.4"		11412	5°42'17.5"	LT		193.3	WZ-IV
					708				Elephant Reserve area, Kai RF & Hill		
AP18	311015	2283566	20°38'30.7"	85°11'10"		12120	10°9'58.6"	RT		207.3	WZ-IV
					922				Elephant Reserve, R. Forest &		

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
									Hill		
AP19	311171	2282657	20°38'1.2"	85°11'15.8"		13042	17°16'20.7"	RT		202.8	WZ-IV
					1199				Eco-sensitive Zone (Satkosia Tiger Reserved) Start, Elephant Reserve area, SH-64, & Hill		
AP20	311014	2281468	20°37'22.4"	85°11'10.8"		14241	23°15'4.6"	LT		209.2	WZ-IV
					630				Elephant Reserve area, Eco-sensitive Zone (Satkosia Tiger Reserved)		
AP21	311185	2280862	20°37'2.8"	85°11'16.9"		14871	42°3'1.1"	RT		214.5	WZ-IV
					1856				Elephant Reserve area, Eco-sensitive Zone (Satkosia Tiger Reserved), SH-64		
AP22	310363	2279198	20°36'8.4"	85°10'49.2"		16727	8°25'22.2"	RT		250.4	WZ-IV
					672				Eco-sensitive Zone (Satkosia Tiger Reserved), Elephant Reserve area, Nuagarh RF & Hill, SH-64		
AP23	309980	2278646	20°35'50.3"	85°10'36.2"		17399	37°35'35.8"	RT		431.8	WZ-IV
					203				Eco-sensitive Zone (Satkosia Tiger Reserved), Elephant Reserve area, Nuagarh RF & Hill		
AP24	309787	2278584	20°35'48.2"	85°10'29.5"		17602	43°1'31"	LT		389	WZ-IV
					418				Eco-sensitive Zone (Satkosia Tiger Reserved), Elephant Reserve area, Nuagarh RF &		

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
									Hill		
AP25	309582	2278220	20°35'36.3"	85°10'22.6"		18020	34°1'25.7"	LT		348.4	WZ-IV
					436				Eco-sensitive Zone (Satkosia Tiger Reserved), Elephant Reserve area & Hill		
AP26	309618	2277785	20°35'22.2"	85°10'24"		18456	27°40'22.2"	RT		322.8	WZ-IV
					699				Elephant Corridor, Elephant Reserve & Hill		
AP27	309346	2277141	20°35'1.1"	85°10'14.8"		19155	36°41'17.4"	RT		374.2	WZ-IV
					761				Elephant Corridor, Elephant Reserve		
AP28	308690	2276756	20°34'48.4"	85°9'52.3"		19916	45°44'19.5"	LT		317.6	WZ-IV
					1402				Elephant Corridor, Elephant Reserve		
AP29	308353	2275395	20°34'4"	85°9'41.2"		21318	25°42'29.4"	RT		312.8	WZ-IV
					1502				Elephant Corridor, Elephant Reserve, Nuagarh RF & Hill		
AP30	307396	2274238	20°33'26.1"	85°9'8.7"		22820	41°7'32.1"	RT		287.7	WZ-IV
					1198				Elephant Reserve area, Nuagarh RF & Hill		
AP31	306213	2274045	20°33'19.3"	85°8'27.9"		24018	22°28'41.8"	LT		298.9	WZ-IV
					759				Elephant Reserve area, Nuagarh RF & Hill		
AP32	305568	2273645	20°33'6.1"	85°8'5.8"		24777	3°53'20.4"	LT		304.7	WZ-IV
					1459				Elephant Reserve area, Nuagarh RF & Hill		
AP33	304382	2272795	20°32'38"	85°7'25.2"		26236	14°19'53.2"	LT		379.9	WZ-IV

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
					123				Elephant Reserve area, Nuagarh RF & Hill		
AP34	304303	2272700	20°32'34.9"	85°7'22.5"		26359	0°47'18.9"	RT		430.4	WZ-IV
					463				Elephant Reserve area, Nuagarh RF & Hill		
AP35	304000	2272350	20°32'23.4"	85°7'12.2"		26822	31°19'36.2"	LT		418.7	WZ-IV
					339				Elephant Reserve area, Nuagarh RF & Hill		
AP36	303944	2272015	20°32'12.5"	85°7'10.4"		27161	31°16'28.2"	LT		406.4	WZ-IV
					509				Elephant Corridor, Elephant Reserve area, Nuagarh RF & Hill		
AP37	304133	2271543	20°31'57.2"	85°7'17.1"		27670	24°35'11.2"	RT		357.2	WZ-IV
					539				Elephant Corridor, Elephant Reserve area, Nuagarh RF & Hill		
AP38	304107	2271005	20°31'39.7"	85°7'16.4"		28209	6°51'55"	LT		181.3	WZ-IV
					822				Elephant Corridor, Elephant Reserve area, Nuagarh RF & Hill		
AP39	304165	2270185	20°31'13.1"	85°7'18.7"		29031	17°10'44"	LT		148.5	WZ-IV
					3172				Elephant Corridor, Elephant Reserve		
AP40	305312	2267228	20°29'37.4"	85°7'59.5"		32203	17°52'7.9"	LT		111.1	WZ-IV
					2640				Elephant Reserve area		
AP41	306977	2265178	20°28'31.3"	85°8'57.7"		34843	22°32'45.1"	RT		93.1	WZ-IV
					3086				Elephant Reserve area		

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
AP42	307855	2262220	20°26'55.5"	85°9'29.2"		37929	31°48'38.9"	RT		81.3	WZ-IV
					1397				Elephant Reserve area, SH-65		
AP43	307488	2260872	20°26'11.5"	85°9'17"		39326	13°43'37.2"	RT		79.8	WZ-IV
					1707				Elephant Reserve area		
AP44	306660	2259378	20°25'22.6"	85°8'49.1"		41033	41°26'54.6"	LT		71.5	WZ-IV
					783				Elephant Reserve area		
AP45	306829	2258614	20°24'57.8"	85°8'55.2"		41816	25°31'7.4"	LT		71.5	WZ-IV
					787				Elephant Reserve area		
AP46	307313	2257993	20°24'37.8"	85°9'12.1"		42603	23°42'49.1"	LT		72.3	WZ-IV
					1507						
AP47	308640	2257278	20°24'15.1"	85°9'58.2"		44110	27°43'0.7"	RT		72	WZ-IV
					407						
AP48	308867	2256940	20°24'4.2"	85°10'6.1"		44517	37°1'43.8"	RT		71	WZ-IV
					785						
AP49	308826	2256157	20°23'38.7"	85°10'5"		45302	10°31'32.1"	RT		87.5	WZ-IV
					3807				Mahanadi River, Hill		
AP50	307932	2252456	20°21'38"	85°9'35.6"		49109	24°47'18.3"	LT		93.7	WZ-IV
					468						
AP51	308023	2251997	20°21'23.1"	85°9'38.9"		49577	49°59'7"	LT		75.2	WZ-IV
					6885				Kusumi River		
AP52	314054	2248676	20°19'37.3"	85°13'8.1"		56462	9°32'0.2"	RT		85.3	WZ-IV
					1089				Dengabahara RF		
AP53	314908	2248000	20°19'15.6"	85°13'37.8"		57551	41°41'46"	RT		112.6	WZ-IV
					1920				Dengabahara RF		
AP54	315241	2246108	20°18'14.2"	85°13'49.9"		59471	27°40'15.5"	RT		97.7	WZ-IV
					1217						

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
AP55	314871	2244948	20°17'36.4"	85°13'37.6"		60688	25°37'48.6"	LT		83.6	WZ-IV
					2272						
AP56	315184	2242698	20°16'23.3"	85°13'49.2"		62960	29°38'7.5"	RT		78.5	WZ-IV
					4947				Bandara RF, SH-68		
AP57	313354	2238101	20°13'53.2"	85°12'47.9"		67907	45°41'36.2"	RT		89.8	WZ-IV
					1528						
AP58	311944	2237513	20°13'33.6"	85°11'59.5"		69435	40°24'46.9"	LT		79.8	WZ-IV
					772						
AP59	311593	2236825	20°13'11.1"	85°11'47.7"		70207	18°54'22"	LT		82	WZ-IV
					2335						
AP60	311265	2234513	20°11'55.8"	85°11'37.3"		72542	28°49'43.1"	RT		79	WZ-IV
					4962				Kusumi River, Lunijhara River		
AP61	308286	2230545	20°9'45.7"	85°9'56.2"		77504	22°2'16.1"	LT		84.9	WZ-IV
					1772				Under Construction Khurda - Bolangir Section, Electrified, Single, Under East Coas Division.		
AP62	307831	2228832	20°8'49.9"	85°9'41.2"		79276	25°1'34.5"	LT		89.9	WZ-IV
					221				NH-57		
AP63	307870	2228615	20°8'42.8"	85°9'42.6"		79497	0°28'19.9"	LT		88.6	WZ-IV
					1194						
AP64	308090	2227442	20°8'4.8"	85°9'50.6"		80691	12°54'57"	RT		88.6	WZ-IV
					235				220kV D/C OPTCL 400 KV Mendhashal Grid - OPTCL Kanteipalli GRID SS Trans. Line, OPTCL		

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
AP65	308081	2227207	20°7'57.1"	85°9'50.4"		80926	19°1'52.3"	RT		87.7	WZ-IV
					1121						
AP66	307673	2226163	20°7'23"	85°9'36.8"		82047	31°36'14.3"	LT		88	WZ-IV
					1149				Kusumi River		
AP67	307878	2225032	20°6'46.3"	85°9'44.2"		83196	17°1'50.3"	RT		89.1	WZ-IV
					409				Kusumi River		
AP68	307830	2224626	20°6'33.1"	85°9'42.7"		83605	41°17'55.2"	RT		87.7	WZ-IV
					2319				Kusumi River		
AP69	306106	2223075	20°5'42.1"	85°8'44"		85924	21°46'27.1"	RT		95.6	WZ-IV
					773						
AP70	305380	2222807	20°5'33.1"	85°8'19.1"		86697	37°0'6.4"	LT		97.1	WZ-IV
					1950						
AP71	304324	2221169	20°4'39.4"	85°7'43.4"		88647	28°9'57"	RT		99.9	WZ-IV
					4961						
AP72	299986	2218760	20°3'19.5"	85°5'15.1"		93608	12°50'51.1"	LT		111.5	WZ-IV
					1721						
AP73	298705	2217611	20°2'41.7"	85°4'31.5"		95329	34°10'42.2"	RT		117.7	WZ-IV
					500						
AP74	298210	2217544	20°2'39.3"	85°4'14.4"		95829	25°51'52"	LT		124.5	WZ-IV
					392						
AP75	297883	2217327	20°2'32.2"	85°4'3.3"		96221	34°7'52.9"	RT		123.1	WZ-IV
					1909						
AP76	295974	2217345	20°2'32"	85°2'57.6"		98130	31°47'52.6"	LT		123.1	WZ-IV
					2701				Kusumi River		
AP77	293665	2215944	20°1'45.6"	85°1'38.7"		100831	40°58'48.8"	RT		122.8	WZ-IV
					1445				Kusumi River		
AP78	292241	2216188	20°1'53"	85°0'49.6"		102276	27°27'15.1"	LT		123.3	WZ-IV

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
					1577				Kusumi River		
AP79	290739	2215708	20°1'36.8"	84°59'58.2"		103853	28°7'21.3"	RT		131.9	WZ-IV
					2094						
AP80	288679	2216086	20°1'48.3"	84°58'47.1"		105947	32°14'18.8"	RT		141.2	WZ-IV
					440						
AP81	288355	2216384	20°1'57.8"	84°58'35.9"		106387	14°51'59.7"	RT		137.2	WZ-IV
					213				220kV D/C OPTCL 400 KV Mendhashal Grid - OPTCL Kanteipalli GRID SS Trans. Line, OPTCL		
AP82	288241	2216563	20°2'3.6"	84°58'31.9"		106600	45°1'40.7"	LT		137.3	WZ-IV
					836						
AP83	287425	2216743	20°2'9.1"	84°58'3.7"		107436	22°4'48.6"	RT		140.1	WZ-IV
					383				Kusumi River		
AP84	287109	2216960	20°2'16.1"	84°57'52.8"		107819	37°29'37.2"	LT		136.8	WZ-IV
					2671						
AP85	284441	2216823	20°2'10.5"	84°56'21.1"		110490	11°6'31.2"	LT		150	WZ-IV
					1155						
AP86	283321	2216543	20°2'1"	84°55'42.6"		111645	22°13'18.6"	LT		157.9	WZ-IV
					1909						
AP87	281781	2215414	20°1'23.7"	84°54'50.2"		113554	25°8'49.8"	LT		157.4	WZ-IV
					217				220kVD/COPTCL400KV Mendhashal Grid- OPTCL Kanteipalli GRIDSS Trans. Line, OPTCL		
AP88	281677	2215223	20°1'17.4"	84°54'46.7"		113771	16°2'31.3"	RT		158.1	WZ-IV

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
					2161						
AP89	280158	2213685	20°0'26.8"	84°53'55.1"		115932	15°29'2.6"	LT		178.6	WZ-IV
					1958				Jagatnathprasad RF		
AP90	279204	2211974	19°59'30.8"	84°53'23"		117890	36°34'58"	RT		161.8	WZ-IV
					4555						
AP91	275051	2210102	19°58'28.2"	84°51'1"		122445	37°40'59.5"	RT		164.7	WZ-IV
					396						
AP92	274665	2210194	19°58'31"	84°50'47.7"		122841	54°24'39"	LT		158.8	WZ-IV
					883						
AP93	273999	2209614	19°58'11.9"	84°50'25"		123724	36°43'55.5"	LT		160.7	WZ-IV
					223				SH-21		
AP94	273951	2209396	19°58'4.8"	84°50'23.5"		123947	10°23'40.2"	LT		161.1	WZ-IV
					1567						
AP95	273899	2207830	19°57'13.9"	84°50'22.4"		125514	23°27'23.7"	RT		142.4	WZ-IV
					5235						
AP96	271657	2203099	19°54'39.1"	84°49'7.4"		130749	27°54'55.6"	RT		178	WZ-IV
					1940						
AP97	270102	2201938	19°54'0.7"	84°48'14.5"		132689	36°14'40"	LT		166.5	WZ-IV
					3127						
AP98	269186	2198947	19°52'23.1"	84°47'44.4"		135816	23°26'1.9"	LT		149.8	WZ-IV
					1954						
AP99	269404	2197005	19°51'20.1"	84°47'52.7"		137770	8°49'27.2"	LT		131.9	WZ-IV
					3288				SH-33		
AP100	270267	2193832	19°49'37.3"	84°48'23.8"		141058	33°55'8.7"	RT		108.2	WZ-IV
					1957						
AP101	269640	2191978	19°48'36.7"	84°48'3.1"		143015	19°42'14.3"	LT		103	WZ-IV
					2626						

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
AP102	269686	2189352	19°47'11.4"	84°48'5.8"		145641	29°57'39.1"	RT		103.4	WZ-IV
					460						
AP103	269463	2188949	19°46'58.2"	84°47'58.4"		146101	30°41'36.1"	LT		114.8	WZ-IV
					1148						
AP104	269498	2187801	19°46'20.9"	84°48'0.1"		147249	18°32'45"	RT		106	WZ-IV
					2685						
AP105	268722	2185230	19°44'57"	84°47'34.6"		149934	29°42'32"	LT		95	WZ-IV
					1540						
AP106	269065	2183729	19°44'8.3"	84°47'47"		151474	17°11'39.4"	RT		84.3	WZ-V
					3482						
AP107	268805	2180256	19°42'15.3"	84°47'39.6"		154956	30°52'38.5"	LT		78.1	WZ-V
					1938						
AP108	269672	2178522	19°41'19.3"	84°48'10.2"		156894	7°30'16.4"	RT		76.6	WZ-V
					4249						
AP109	271060	2174505	19°39'9.3"	84°48'59.6"		161143	27°37'34.3"	RT		97.1	WZ-V
					1119						
AP110	270894	2173398	19°38'33.2"	84°48'54.4"		162262	29°30'46.5"	LT		89.5	WZ-V
					882						
AP111	271210	2172574	19°38'6.6"	84°49'5.6"		163144	40°37'18.5"	RT		87	WZ-V
					2695						
AP112	270304	2170035	19°36'43.7"	84°48'35.6"		165839	14°43'11.3"	RT		72.4	WZ-V
					1959						
AP113	269198	2168418	19°35'50.6"	84°47'58.4"		167798	26°14'10.9"	LT		84.1	WZ-V
					2039				SH-30		
AP114	268909	2166398	19°34'44.9"	84°47'49.4"		169837	23°54'6.1"	RT		73.5	WZ-V
					1551				SH-31		
AP115	268087	2165083	19°34'1.8"	84°47'21.8"		171388	11°46'13.4"	LT		63.9	WZ-V

Angul - Gopalpur 765kV D/c line											
AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
					213				132kV D/C Chatrapur Grid S/S Aska GRIDCO S/S Trans. Line, OPTCL		
AP116	268013	2164884	19°33'55.2"	84°47'19.3"		171601	43°16'42.3"	LT		63.7	WZ-V
					1129						
AP117	268454	2163844	19°33'21.6"	84°47'34.9"		172730	9°32'33.2"	RT		58.4	WZ-V
					2356						
AP118	269003	2161551	19°32'7.3"	84°47'54.7"		175086	16°23'18"	RT		56.5	WZ-V
					789						
AP119	268963	2160763	19°31'41.7"	84°47'53.7"		175875	21°17'14.5"	LT		58.4	WZ-V
					448						
AP120	269104	2160338	19°31'27.9"	84°47'58.7"		176323	45°28'13.4"	LT		57.2	WZ-V
					1501						
AP121	270451	2159675	19°31'6.9"	84°48'45.2"		177824	47°38'37.2"	RT		46.8	WZ-V
					771						
AP122	270666	2158935	19°30'42.9"	84°48'52.9"		178595	28°42'50.5"	LT		46.5	WZ-V
					1080						
AP123	271428	2158169	19°30'18.4"	84°49'19.4"		179675	32°21'46.3"	LT		42	WZ-V
					929				River High Bank, Rushikuliya River		
AP124	272334	2157964	19°30'12.1"	84°49'50.5"		180604	8°54'57"	RT		45	WZ-V
					1937				Mango Orchard		
AP125	274134	2157248	19°29'49.5"	84°50'52.5"		182541	30°17'46.3"	RT		41	WZ-V
					6951				State Highway-32		
AP126	278418	2151772	19°26'53.2"	84°53'21.7"		189492	27°2'30.7"	LT		57.7	WZ-V
					769						
AP127	279116	2151448	19°26'43"	84°53'45.8"		190261	23°21'15.4"	RT		76.1	WZ-V

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## Angul - Gopalpur 765kV D/c line

AP. No	Easting	Northing	Latitude	Longitude	Section Length In m.	Cumm. Length In m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
					2326						
AP128	280664	2149712	19°25'47.1"	84°54'39.5"		192587	37°27'45.3"	RT		50.7	WZ-V
					1529						
AP129	280778	2148187	19°24'57.6"	84°54'44.1"		194116	19°0'55"	LT		35.2	WZ-V
					232				220kV D/C Karadagadia - OPTCL Narendrapur Trans. Line, OPTCL		
AP130	280869	2147974	19°24'50.7"	84°54'47.3"		194348	10°34'20.9"	LT		35.9	WZ-V
					1800						
AP131	281873	2146478	19°24'2.5"	84°55'22.3"		196148	12°1'1.4"	LT		32.7	WZ-V
					1958						
AP132	283278	2145114	19°23'18.7"	84°56'11"		198106	34°12'48.5"	LT		57.8	WZ-V
					1090						
AP133	284352	2144926	19°23'13"	84°56'47.9"		199196	7°2'31.7"	RT		45.6	WZ-V
					130						
GNT	284476	2144888	19°23'11.8"	84°56'52.2"		199326	0°00'00.0"			48.1	WZ-V

## Angul – Gopalpur 765kV D/c line

River Crossing

Sl. No.	Name of River	Approximate Span in meters (bank to bank width)	Perennial / Weathered Flow	HFL Information	Navigable / Non - Navigable	Remarks (Crossing in Between Location No.)	Pile Foundations required (Yes/No)	mid-span Piles required (Yes/No) & Nos.
1	Mahanadi River	3700	Perennial Flow	49.5m, 1965	Non Navigable	AP49 to 50	Yes	4 Nos.
2	Kusumi River	370	Weather Flow	49.5m, 1965	Non Navigable	AP51 to 52	No	No
3	Kusumi River	242	Weather Flow	69.2m, 1965	Non Navigable	AP60 to 61	No	No
4	Lunijhara River	70.5	Weather Flow	83.4m, 1965	Non Navigable	AP60 to 61	No	No
5	Lunijhara River	140.6	Weather Flow	83.4m, 1965	Non Navigable	AP60 to 61	No	No
6	Kusumi River	110	Weather Flow	84.1m, 1965	Non Navigable	AP66 to 67	No	No
7	Kusumi River	205	Weather Flow	84.8m, 1965	Non Navigable	AP67 to 68	No	No
8	Kusumi River	160	Weather Flow	82.9m, 1965	Non Navigable	AP68 to 69	No	No
9	Kusumi River	210	Weather Flow	69.2m, 1965	Non Navigable	AP76 to 77	No	No
10	Kusumi River	271	Weather Flow	60.2m, 1965	Non Navigable	AP77 to 78	No	No
11	Kusumi River	62.0	Weather Flow	60.2m, 1965	Non Navigable	AP78 to 79	No	No
12	Kusumi River	60.0	Weather Flow	60.2m, 1965	Non Navigable	AP83 to 84	No	No
13	Rushikuliya River	810	Perennial Flow	47.45m,1990	Non Navigable	AP123-124	Yes	1 No.

**Railway Line Crossing**

Sl. No.	Name of the Railway Line	Type of Gauge Broad /Meter /Narrow	Single/Double / Triple Line	Stone No.	Electrified / Non- Electrified	Remarks (Crossing in Between Location)
1	Under Construction Khurda - Bolangir Section, Electrified, Single, Under East Coast Division.	Broad Gauge	Single	Not Available	Electrified	AP60 - AP61

## **303** **Power Line crossings (110 kV and Above)**

Sl No.	Circuit Details	Voltage Rating in kV / Crossing	Name of Owner (SEBs/DOT)	Remarks (Crossing in Between Location No.)
1	Extn. 400kV D/C Jindal Thermal Power Plant - Angul (PGCIL) Trans. Line, JTPL	400kV	JTPL	AP05-06
2	Extn. 220kV D/C Meramondali Grid - OPTCL Kanteipalli GRID SS Trans. Line, OPTCL Line.	220kV	OPTCL	AP11-12
3	220kV D/C OPTCL 400 KV Mendhashal Grid - OPTCL Kanteipalli GRID SS Trans. Line, OPTCL	220kV	OPTCL	AP64-65
4	220kV D/C OPTCL 400 KV Mendhashal Grid - OPTCL Kanteipalli GRID SS Trans. Line, OPTCL	220kV	OPTCL	AP81-82
5	220kV D/C OPTCL 400 KV Mendhashal Grid - OPTCL Kanteipalli GRID SS Trans. Line, OPTCL	220kV	OPTCL	AP87-88
6	132kV D/C Chhatrapur Grid S/S Aska GRIDCO S/S Trans. Line, OPTCL	132kV	OPTCL	AP115-116
7	220kV D/C Karadagadia - OPTCL Narendrapur Trans. Line, OPTCL	220kV	OPTCL	AP129-130

# 304 Forest Details

Sl. No.	Section AP to AP	Name of the Forest	Type of Forest (Reserved / Protected / Social /Revenue)	Forest Stretches (m)	Affected Forest area (sqm.)
1	13-14	Kai RF	Reserved Forest	234	15678
2	14-15	Kai RF	Reserved Forest	418	28006
3	15-16	Kai RF	Reserved Forest	751	50317
4	16-17	Kai RF	Reserved Forest	651	43617
5	17-18	Kai RF	Reserved Forest	708	47436
6	18-19	Kai RF	Reserved Forest	387	25929
7	22-23	Nuagarh R.F	Reserved Forest	405	27135
8	23-24	Nuagarh R.F	Reserved Forest	203	13601
9	24-25	Nuagarh R.F	Reserved Forest	260	17420
10	29-30	Nuagarh R.F	Reserved Forest	20	1340
11	30-31	Nuagarh R.F	Reserved Forest	1198	80266
12	31-32	Nuagarh R.F	Reserved Forest	759	50853
13	32-33	Nuagarh R.F	Reserved Forest	857	57419
14	33-34	Nuagarh R.F	Reserved Forest	123	8241
15	34-35	Nuagarh R.F	Reserved Forest	463	31021
16	35-36	Nuagarh R.F	Reserved Forest	339	22713
17	36-37	Nuagarh R.F	Reserved Forest	509	34103
18	37-38	Nuagarh R.F	Reserved Forest	539	36113
19	38-39	Nuagarh R.F	Reserved Forest	435	29145
20	52-53	Dengabahara R.F	Reserved Forest	28	1876
21	53-54	Dengabahara R.F	Reserved Forest	138	9246
22	56-57	Bandara R.F	Reserved Forest	428	28676
23	89-90	Jagatnathprasad R.F	Reserved Forest	168	11256

**Wildlife/Elephant Corridor/Eco-Sensitive/Bird Sanctuary/GIB Details**

Sl. No.	Section AP to AP	Name of the Wildlife	Type of Wildlife (Reserved / Protected / Social)	Wildlife Stretches (m)	Affected Wildlife Area (Sq.m.)
1	08-09	Satkosia Tiger Reserved	Eco-sensitive Zone	278	18626
2	09-10	Satkosia Tiger Reserved	Eco-sensitive Zone	273	18291
3	10-11	Satkosia Tiger Reserved	Eco-sensitive Zone	212	14204
4	11-12	Satkosia Tiger Reserved	Eco-sensitive Zone	144	9648
6	19-20	Satkosia Tiger Reserved	Eco-sensitive Zone	1199	80333
7	20-21	Satkosia Tiger Reserved	Eco-sensitive Zone	630	42210
8	21-22	Satkosia Tiger Reserved	Eco-sensitive Zone	1856	124352
9	22-23	Satkosia Tiger Reserved	Eco-sensitive Zone	672	45024
10	23-24	Satkosia Tiger Reserved	Eco-sensitive Zone	203	13601
11	24-25	Satkosia Tiger Reserved	Eco-sensitive Zone	418	28006
12	25-26	Satkosia Tiger Reserved	Eco-sensitive Zone	233	15611
13	14-15	Mahanadi Elephant Reserved Forest	Elephant Reserved	62	4154
14	15-16	Mahanadi Elephant Reserved Forest	Elephant Reserved	751	50317
15	16-17	Mahanadi Elephant Reserved Forest	Elephant Reserved	651	43617
16	17-18	Mahanadi Elephant Reserved Forest	Elephant Reserved	708	47436
17	18-19	Mahanadi Elephant Reserved Forest	Elephant Reserved	922	61774
18	19-20	Mahanadi Elephant Reserved Forest	Elephant Reserved	1199	80333
19	20-21	Mahanadi Elephant Reserved Forest	Elephant Reserved	630	42210
20	21-22	Mahanadi Elephant Reserved Forest	Elephant Reserved	1856	124352

Sl. No.	Section AP to AP	Name of the Wildlife	Type of Wildlife (Reserved / Protected / Social)	Wildlife Stretches (m)	Affected Wildlife Area (Sq.m.)
21	22-23	Mahanadi Elephant Reserved Forest	Elephant Reserved	672	45024
22	23-24	Mahanadi Elephant Reserved Forest	Elephant Reserved	203	13601
23	24-25	Mahanadi Elephant Reserved Forest	Elephant Reserved	418	28006
24	25-26	Mahanadi Elephant Reserved Forest	Elephant Reserved	436	29212
25	26-27	Mahanadi Elephant Reserved Forest	Elephant Reserved	699	46833
26	27-28	Mahanadi Elephant Reserved Forest	Elephant Reserved	761	50987
27	28-29	Mahanadi Elephant Reserved Forest	Elephant Reserved	1402	93934
28	29-30	Mahanadi Elephant Reserved Forest	Elephant Reserved	1502	100634
29	30-31	Mahanadi Elephant Reserved Forest	Elephant Reserved	1198	80266
30	31-32	Mahanadi Elephant Reserved Forest	Elephant Reserved	759	50853
31	32-33	Mahanadi Elephant Reserved Forest	Elephant Reserved	1459	97753
32	33-34	Mahanadi Elephant Reserved Forest	Elephant Reserved	123	8241
33	34-35	Mahanadi Elephant Reserved Forest	Elephant Reserved	463	31021
34	35-36	Mahanadi Elephant Reserved Forest	Elephant Reserved	339	22713
35	36-37	Mahanadi Elephant Reserved Forest	Elephant Reserved	509	34103
36	37-38	Mahanadi Elephant Reserved Forest	Elephant Reserved	539	36113
37	38-39	Mahanadi Elephant Reserved Forest	Elephant Reserved	822	55074
38	39-40	Mahanadi Elephant Reserved Forest	Elephant Reserved	3172	212524
39	40-41	Mahanadi Elephant Reserved Forest	Elephant Reserved	2640	176880
40	41-42	Mahanadi Elephant Reserved Forest	Elephant Reserved	3086	206762
41	42-43	Mahanadi Elephant Reserved Forest	Elephant Reserved	1397	93599

Sl. No.	Section AP to AP	Name of the Wildlife	Type of Wildlife (Reserved / Protected / Social)	Wildlife Stretches (m)	Affected Wildlife Area (Sq.m.)
42	43-44	Mahanadi Elephant Reserved Forest	Elephant Reserved	1707	114369
43	44-45	Mahanadi Elephant Reserved Forest	Elephant Reserved	783	52461
44	45-46	Mahanadi Elephant Reserved Forest	Elephant Reserved	292	19564
45	26-27	Mahanadi Elephant Corridor	Elephant Reserved	350	23450
46	27-28	Mahanadi Elephant Corridor	Elephant Reserved	761	50987
47	28-29	Mahanadi Elephant Corridor	Elephant Reserved	1402	93934
48	29-30	Mahanadi Elephant Corridor	Elephant Reserved	424	28408
49	36-37	Mahanadi Elephant Corridor	Elephant Reserved	439	29413
50	37-38	Mahanadi Elephant Corridor	Elephant Reserved	539	36113
51	38-39	Mahanadi Elephant Corridor	Elephant Reserved	822	55074
52	39-40	Mahanadi Elephant Corridor	Elephant Reserved	2720	182240

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## NH and SH Crossings

Sl. No.	Name of the Road	Type of Road National Highway / State Highway	Nearest City / Town from Crossing	Approximate Both Side KS. Stone of Crossing	Remarks (Crossing Between Location No.)
1	SH-64	State Highway	Sundarapal Village	-----	AP10-11
2	SH-64	State Highway	Dholapathar Village	-----	AP19-20
3	SH-64	State Highway	Pichuli Ghati	-----	AP21-22
4	SH-64	State Highway	Pichuli Ghati	-----	AP22-23
5	SH-65	State Highway	Chanahata Village	-----	AP42-43
6	SH-68 (Bghamari/NH-57 - Khandapari)	State Highway	Basantapur Village	-----	AP56-57
7	NH-57 (Khorda - Bolangir)	National Highway	Badapandusar Village		AP62- 63
8	SH-21 (Bhanjanagar - Karsing)	State Highway	Jhadasahi Village		AP93 - 94
9	SH-33 (Balipadar - Karsing)	State Highway	Biranchipur Village		AP99 - 100
10	SH-30 (Chilika - Kabisukantanagar)	State Highway	Raghunathpalli Village		AP113-114
11	SH-31 (Humma -Ashika)	State Highway	Gundiali Village	KP185-186	AP114-115
12	SH-32 (Berhampur - Purusottampur)	State Highway	Damodarpur Village	KP185-186	AP125-126

**CHAPTER-3.4**

**SUMMARY OF THE PROPOSED ROUTE**

**Angul Gopalpur 765kV D/c line**

**310**

**Summary of the Proposed Route**

<b>Sl. No.</b>	<b>Description</b>	<b>Proposed Route</b>
1	Bee Line Length	150.530 KM.
	Line Length	199.326 KM.
	a) Plain	138.37 KM.
	b) Undulated terrain	31.20 KM.
	c) Hilly Terrain	29.756 KM.
2	Terrain	Plain
3	Snow bound Route (in meters)	Nil
4	Length of line in heavy rain fall area which any affect working season (in meters)	Approximate 30%- 40% of total linen length may be affected.
5	Angle Point	133 Nos.
6	Forest (Approx.)	10.021 Km.
	a) Reserved Forest	10.021 Km
	b) Protected Forest	Nil
	c) Open Scrub	Along the route
7	Wild life infringement	Yes
	a) Satkosia Tiger Reserve (Eco-Sensitive Zone)	6.118 Km.
	b) Mahanandi Elephant Reserve	32.160 Km.
	c) Mahanadi Elephant Corridor	7.457 Km.
8	Animal/Bird sanctuary	Nil
9	Infringement of endangered species habitat	Nil
10	National Park	Nil
11	Great Indian Bustard (GIB) area (Priority/GIB Potential Zone)	Nil
12	Creek, marshy and low-lying area	Nil
13	No. of Piles/Special Foundations required	05 Nos.
14	Transportation facilities	Yes
15	Maintenance Facilities	Yes
16	Power Line crossings (110 kV and above)	07 Nos.
17	Telecom Line Crossing	Nil
18	Railway Crossing	
	a) Existing	1 No.
	b) Proposed	Nil
19	Airport/ Air Strip	Nil
20	Upcoming Airports/Aviation zone/Airforce Station	Nil
21	Army cantonment/mining/No go areas/Air Strips	Nil
22	River	13 Nos.
	a) Major	2 Nos.
	b) Minor	11 Nos.
23	National Expressway Crossing	Nil

**Angul Gopalpur 765kV D/c line**

**311**

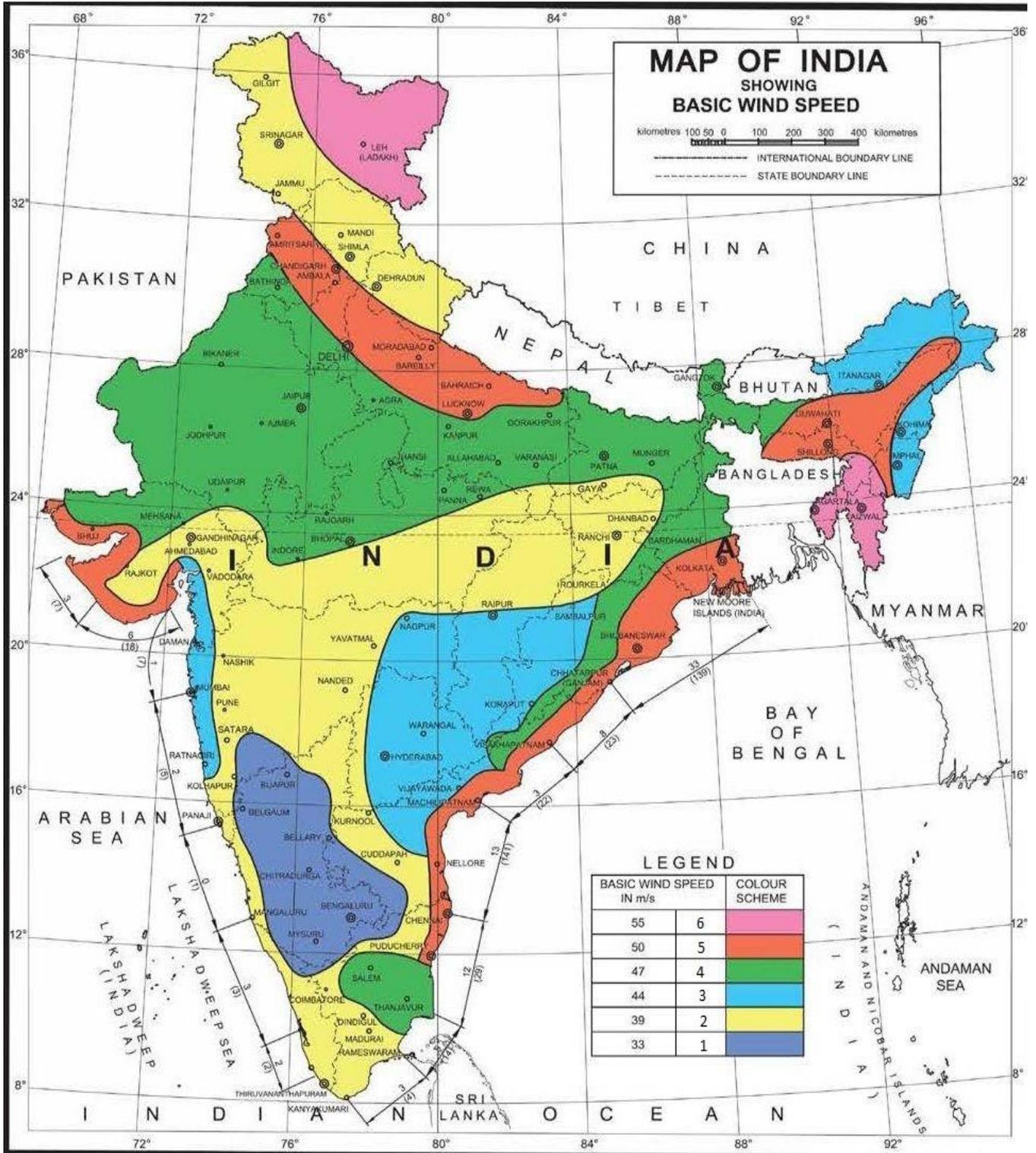
**Summary of the Proposed Route**

<b>Sl. No.</b>	<b>Description</b>	<b>Proposed Route</b>
	a) Existing	Nil
	b) Proposed	Nil
24	NH Crossing	01 No.
	a) Existing	01 No.
	b) Proposed	Nil
25	SH Crossing	11 Nos.
	a) Existing	11 Nos.
	b) Proposed	Nil
26	Circle rate of land (Rs per Acre)	Approx. 4-5 Lakhs
27	Land Availability (if required for acquisition)	Available
	i) Extent of land available	Available
	ii) Land use pattern (agricultural, barren, forest etc.)	Agricultural, Forest
	iii) Land ownership (Govt. Private, tribal, non- tribal etc.)	Private
28	Approaches for construction	Available
29	Wind Zone to be considered inclusive of Over lapping Zone.	Wind Zone-IV & V
30	State	Odisha
31	District	Angul, Dhenkanal, Cuttack, Nayagarh & Ganjam.
32	Coastal Zone	Yes
33	Elephant Corridor/Reserved	7.457Km / 32.160Km.

**CHAPTER-3.5**  
**WIND ZONE MAP**

# 313 Wind Zone Map

- The proposed transmission route Angul – Gopalpur 765kV D/c line (from AP 0 – AP 105) passing through Wind Zone - IV
- The proposed transmission route Angul – Gopalpur 765kV D/c line (from AP 106 – proposed Gopalpur Sub-Station) passing through Wind Zone - V



**CHAPTER-3.6**  
**Results and Conclusions**

## Results and Conclusions 315

Referring to angle point summary and after initial inspection of physical maps updated with satellite images and walk over survey, the proposed corridor was explored for the best route alignment. Special attention has been given to the existing EHV lines, reserved/protected/open scrub forest, River crossing, national/state highways, minimum route length and habitation including plantation. After detailed analysis, proposed transmission line route has been observed as most viable route for alignment due to its good approach, for construction and maintenance of the transmission line after construction. Finally, the Route marked **Red** in the route alignment drawing has been final route.

**CHAPTER-3.7**

**ROUTE ALIGNMENT MAP ON DIGITIZED  
TOPOSHEET**

**317**

**SECTION: 4**

**CHAPTER-4.0**

**Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line**

**CHAPTER-4.1**

**CO-ORDINATES OF THE SUBSTSTION**

**Substation Detail**

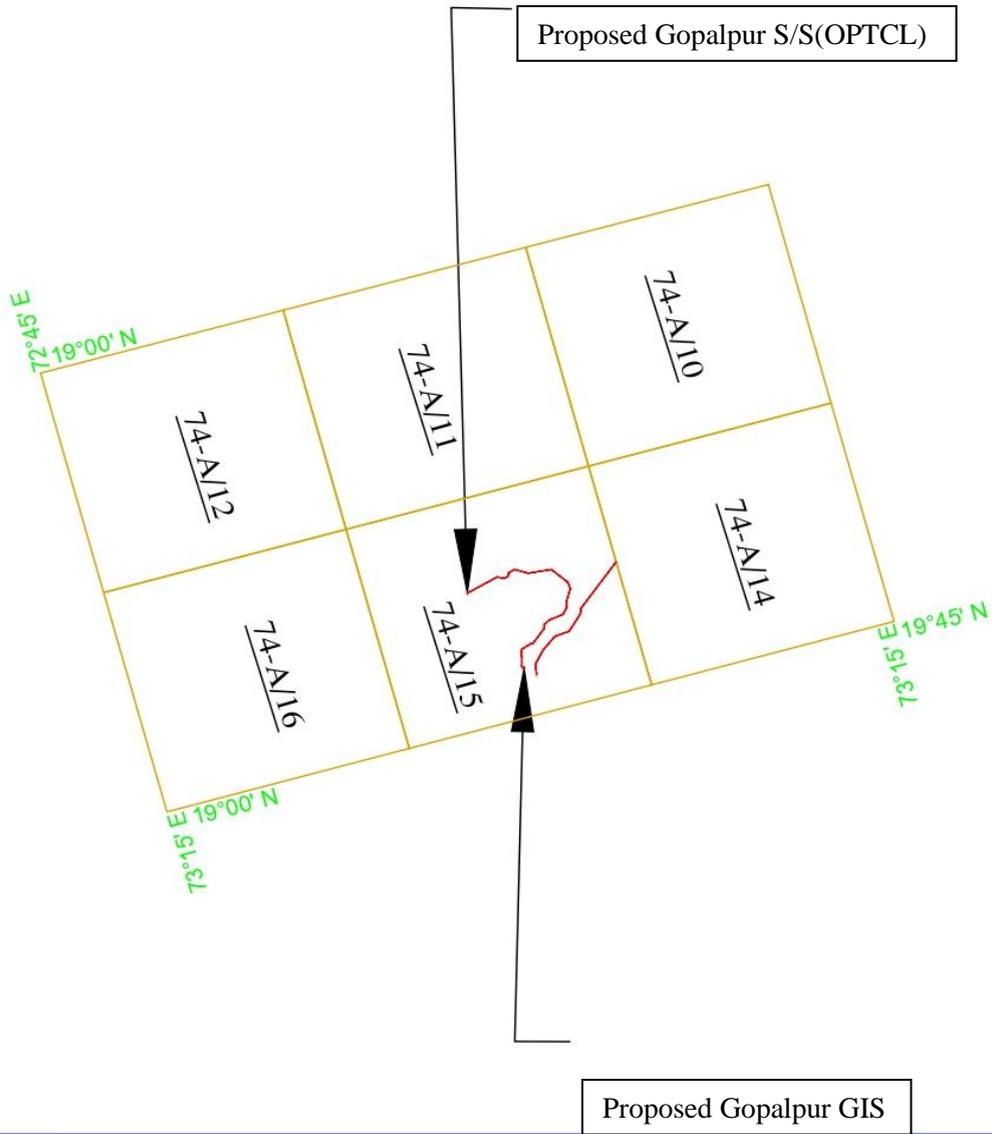
Name of the Substation	Coordinates	
	UTM	Lat-Long
<b>Proposed 765/400kV, 2x1500MVAr GIS substation at Gopalpur in Odisha</b>  Village: Srirampur Tehsil: Chhatrapur District: Ganjam State: Odisha	0415992.84 E 2720323.25 N	24°35'40.90"N 74°10'12.80"E
<b>Proposed 400kV Sub-Station Gopalpur S/S (OPTCL) *</b>  Village: Kanisi Tehsil: Rangeilunda District: Ganjam State: Odisha	0274257.02 E 2140813.37 N	19°20'55.28"N 84°51'3.78"E

- \* The exact coordinates for construction of 2 nos. of 400 kV line bays at Gopalpur (OPTCL) for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line has to be obtained from the substation owner during execution stage.

**CHAPTER-4.2**

**INDEX OF TOPO SHEETS**

### INDEX TOPO SHEETS:-



**CHAPTER-4.3**

**CO-ORDINATES OF THE PROPOSED ROUTE**

## Gopalpur - Gopalpur (OPTCL) 400kV D/c (Quad) line

AP. No.	Easting	Northing	Latitude	Longitude	Section Length in m.	Cumm. Length in m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
GNT	284350	2144425	19°22'56.7"	84°56'48"		0	00°00'00.0"			35	V
					77						
AP1	284322	2144353	19°22'54.3"	84°56'47.1"		77	46°37'02.7"	RT		34.4	V
					301				Tar Road, Ditch		
AP2	284043	2144238	19°22'50.5"	84°56'37.6"		378	40°02'27.4"	RT		30.6	V
					1011						
AP3	283080	2144545	19°23'0.1"	84°56'4.5"		1389	29°36'09.3"	LT		29.6	V
					214				StateHighway-36		
AP4	282870	2144501	19°22'58.6"	84°55'57.3"		1603	35°19'49.4"	RT		26.1	V
					770				Ditch, TarRoad		
AP5	282164	2144806	19°23'8.2"	84°55'33"		2373	50°45'17.7"	RT		21.5	V
					1126						
AP6	281856	2145889	19°23'43.3"	84°55'22"		3499	20°25'39.0"	RT		14.7	V
					237				StateHighway-36		
AP7	281874	2146125	19°23'51"	84°55'22.5"		3736	42°03'21.3"	LT		15	V
					1959				Ditch, Kancha Road		
AP8	280682	2147680	19°24'41.1"	84°54'41"		5695	9°53'00.2"	LT		15.5	V
					241				220kVD/CKaradagadia -OPTCL Narendrapur Trans.Line, OPTCL		
AP9	280504	2147843	19°24'46.3"	84°54'34.9"		5936	23°36'33.1"	LT		17.5	V
					460				Kancha Road		
AP10	280070	2147993	19°24'51"	84°54'19.9"		6396	46°50'41.6"	RT		20.4	V
					788						
AP11	279747	2148712	19°25'14.3"	84°54'8.5"		7184	17°29'11.0"	RT		22.5	V
					1549				Tar Road		
AP12	279567	2150250	19°26'4.2"	84°54'1.7"		8733	39°27'15.5"	LT		38.6	V
					783						
AP13	279003	2150793	19°26'21.6"	84°53'42.2"		9516	28°01'27.5"	LT		39.8	V
					776				Tar Road		
AP14	278257	2151006	19°26'28.2"	84°53'16.5"		10292	16°57'58.7"	RT		44.9	V
					1561				Kancha Road, State Highway-32		

## 325 Gopalpur - Gopalpur (OPTCL) 400kV D/c (Quad) line

AP. No.	Easting	Northing	Latitude	Longitude	Section Length in m.	Cumm. Length in m.	Deviation Angle		Crossing Details	Altitude	Wind Zone
AP15	276945	2151852	19°26'55.2"	84°52'31.2"		11853	36°33'05.6"	LT		26.2	V
					782						
AP16	276164	2151802	19°26'53.3"	84°52'4.5"		12635	30°37'51.3"	LT		36	V
					2357				Canal, State Highway-36,Ditch		
AP17	274217	2150473	19°26'9.3"	84°50'58.3"		14992	49°00'58.3"	LT		32.7	V
					2636				Ditch		
AP18	273909	2147854	19°24'44"	84°50'48.9"		17628	26°23'28.7"	RT		40.5	V
					1503				Kancha Road		
AP19	273089	2146595	19°24'2.8"	84°50'21.3"		19131	46°27'04.6"	LT		42.1	V
					769						
AP20	273266	2145846	19°23'38.5"	84°50'27.7"		19900	46°32'22.6"	LT		41	V
					451				Canal, Tar Road		
AP21	273656	2145620	19°23'31.3"	84°50'41.1"		20351	45°22'07.7"	RT		47.1	V
					441						
AP22	273767	2145193	19°23'17.5"	84°50'45.1"		20792	41°58'47.0"	RT		47.8	V
					783				Tar Road, Canal, Kancha Road		
AP23	273406	2144498	19°22'54.7"	84°50'33"		21575	40°44'15.7"	LT		41	V
					3707				Ditch		
AP24	274257	2140890	19°20'57.8"	84°51'3.8"		25282	12°18'59.4"	RT		35.6	V
					76						
GNT	274258	2140814	19°20'55.3"	84°51'3.8"		25358	00°00'00.0"		<b>Proposed Gopalpur (OPTCL)</b>	35.3	V

**Gopalpur - Gopalpur (OPTCL) 400kV D/c (Quad) line****River Crossing**

Sl. No.	Name of River	Approximate Span in meters (bank to bank width)	Perennial / Weathered Flow	HFL Information	Navigable / Non - Navigable	Remarks (Crossing in Between Location No.)	Pile Foundations required (Yes/No)	id-span Piles required (Yes/No) & Nos.
Nil								

# 327

## Railway Line Crossing

Sl. No.	Nae of the Railway Line	Type of Gauge Broad/meter /Narrow	Single/ Double/ Triple Line	StoneNo.	Electrified / Non-Electrified	Rearks (Crossing inBetween Location)
NIL						

# 328

## Power Line crossings (110 kV and Above)

Sl. No.	Circuit Details	Voltage Rating in kV / Crossing	Name of Owner (SEBs/DOT)	Remarks (Crossing in Between LocationNo.)
1	220kV D/C Karadagadia - OPTCL Narendrapur Trans. Line, OPTCL	220kV	OPTCL	AP 08 - AP 09

# 329

## Forest Details

Sl.No.	Section AP to AP	Nae of the Forest	Type of Forest (Reserved / Protected / Social /Revenue)	Forest Stretches (in meter)	Affected Forest Area(sq)
NIL					

# 330

## Wildlife/Elephant Corridor/Bird Sanctuary/GIB Details

Sl. No.	SectionAP to AP	Nae of the Wildlife	Type of Wildlife (Reserved / Protected / Social)	Wildlife Stretches (in meter)	Affected Wildlife Area(sq)
NIL					

# 331

## NH and SH Crossings

Sl. No.	Name of the Road	Type of Road National Highway / State Highway	Nearest City / Town from Crossing	Approximate Both Side KMS. Stone of Crossing	Remarks (Crossing Between Location No.)
1	State Highway-36	State Highway	Hinjilikatu	KP19-20	AP16-17
2	State Highway-32	State Highway	Bhatakumarada	KP25-26	AP14-15
3	State Highway-36	State Highway	Hinjilikatu	KP12-13	AP03-04
4	State Highway-36	State Highway	Sundarpur	KP14-15	AP06-07

**CHAPTER-4.4**

**SUMMARY OF PROPOSED ROUTE**

**Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line**

**Summary of the Proposed Route**

<b>Sl. No.</b>	<b>Description</b>	<b>Proposed Route</b>
1.	Bee Line Length	10.718 KM.
	Line Length	25.358 KM
	a) Plain	90
	b) Undulated terrain	10
	c) Hilly Terrain	Nil
2.	Terrain	Plain
3.	Snow bound Route (in meters)	Nil
4.	Length of line in heavy rainfall area which may affect working season (in meters)	Nil
5.	Angle Point	24 Nos.
6.	Forest (Approx.)	Nil
	a) Reserved Forest	Nil
	b) Protected Forest	Nil
	Open Scrub	Along the route
7.	Wildlife infringement	Nil
8.	Animal/Bird sanctuary	Nil
9.	Infringement of endangered species habitat	Nil
10.	National Park	Nil
11.	Great Indian Bustard (GIB) area (Priority/GIB Potential Zone)	Nil
12.	Creek, marshy and low-lying area	Nil
13.	No. of Piles/Special Foundations required	Nil
14.	Transportation facilities	Yes
15.	maintenance Facilities	Yes
16.	Power Line crossings (110 kV and above)	01 No.
17.	Telecom Line Crossing	Nil
18.	Railway Crossing	
	a) Existing	Nil
	b) Proposed	Nil
19.	Airport / Air Strip	Nil
20.	Upcoming Airports/ Aviation zone/ Air force Station	Nil
21.	Army cantonment/mining/No go areas/ Air Strips	Nil
22.	River	Nil
	a) Major	Nil
	b) Minor	Nil
23.	National Expressway Crossing	Nil
	a) Existing	Nil

**334**  
Gopalpur - Gopalpur (OPTCL) 400kV D/c (Quad) line

**Summary of the Proposed Route**

Sl. No.	Description	Proposed Route
	b) Proposed	Nil
24.	NH Crossing	Nil
	a) Existing	Nil
	b) Proposed	Nil
25.	SH Crossing	04 Nos.
	a) Existing	04 Nos.
	b) Proposed	Nil
26.	Circle rate of land (Rs per Acre)	Approx. 4 - 5 Lakh
27.	Land Availability (if required for acquisition)	Available
	i) Extent of land available	Available
	ii) Land use pattern (agricultural, barren, forest etc.)	Agricultural
	iii) Land ownership (Govt. Private, tribal, non- tribaletc.)	Private
28.	Approaches for construction	Available
29.	Wind Zone to be considered inclusive of Over lapping Zone.	Wind Zone- V
30.	State	Odisha
31.	District	Ganjam
32.	Coastal Zone	Yes
33.	Elephant Corridor/Reserve	Nil

**CHAPTER-4.5**  
**WIND ZONE MAP**



**CHAPTER-4.6**  
**Results and Conclusions**

## Results and Conclusions

Referring to angle point summary and after initial inspection of physical Maps updated with satellite images and walk over survey, the proposed corridor was explored for the best route alignment. Special attention has been given to the existing EHV lines, reserved/protected/open scrub forest, River crossing, national/state highways, minimum route length and habitation including plantation. After detailed analysis, proposed transmission line route has been observed as most viable route for alignment due to its good approach, for construction and maintenance of the transmission line after construction. Finally, the Route marked **Red** in the route alignment drawing has been final route.

**CHAPTER-4.7**

**ROUTE ALIGNMENT MAP ONDIGITIZED TOPOSHEET**

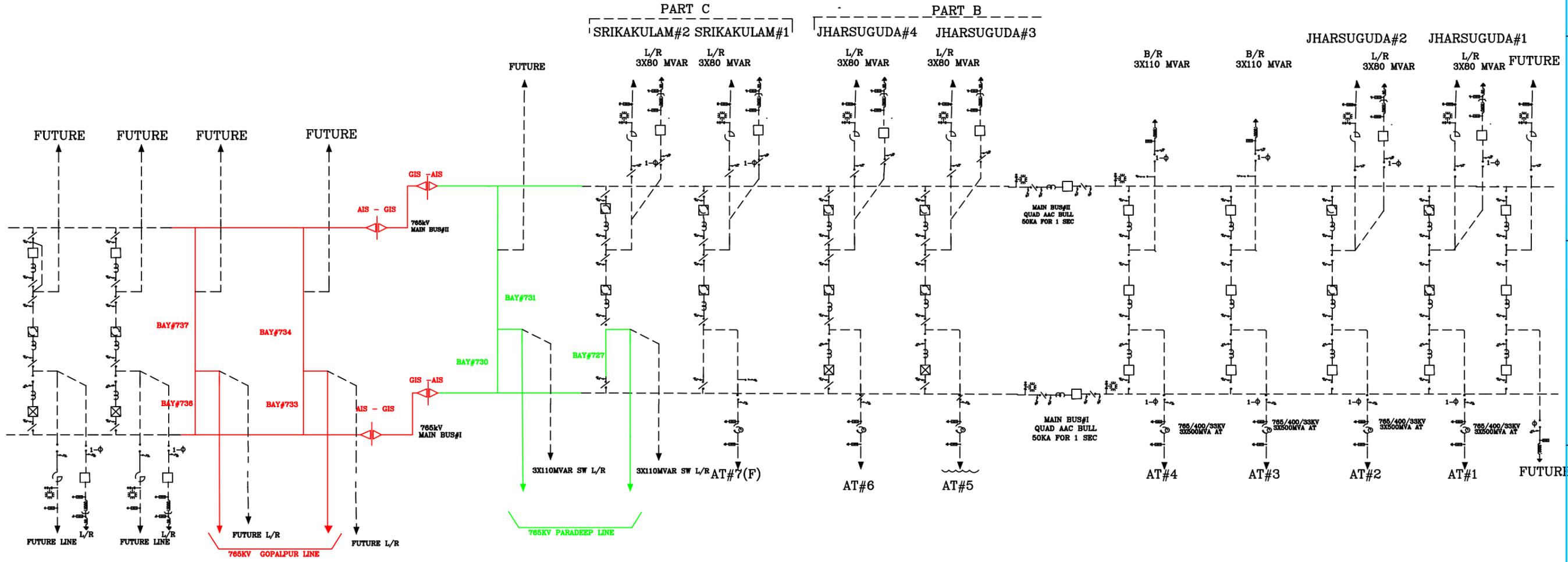
# 340

## DISCLAIER

Bidders ay please note that the Bid Process Coordinator (BPC) has carried out a survey of the Transmission System associated with the Project. While every possible care has been taken in identifying the involvement of forest area / animal and bird sanctuary/ lines in the proposed routes. However, Bidders in their own interest should carry out required surveys and field investigation for submission of their Bid. For the purpose of carrying out required survey, the address and co-ordinate of each location of sub-station has been provided by the BPC. The coordinate of location of the sub-station is only for the purpose of facilitating Bidders to locate the sub-station and the same should not be considered as the point of termination of transmission line. For exact point of termination of transmission line, the Bidder shall have to coordinate with the agency responsible for construction of sub-station / switchyard who shall provide the inter- connection facility. Bidders in their own interest should visit the project site to confer the location of sub- stations and any apprehension in this regard should be brought to the notice of the BPC.

Failure to verify the location of sub-station, investigate the route of the Transmission Lines associated with the Project and to examine, inspect site or subsurface conditions fully shall not be grounds for a Bidder to alter its Bid after the Bid Deadline nor shall it relieve a Bidder from any responsibility for appropriately eliminating the difficulty or costs of successfully completing the Project.

The BPC, its authorized representative, any of the Long Term Transmission Customer(s), nor their directors, employees or advisors/consultants make any representation or warranty, express or implied, or accept anyresponsibility or liability, whatsoever, in respect of any statements or omissions made in the Survey Report, or the accuracy, completeness or reliability of information contained therein, and shall incur no liability under any law, statue, rules or regulations as to the accuracy, reliability or completeness of such survey report, even if any loss or damage is caused to the Bidders by any act or omission on their part.



765 kV EQUIPMENTS		
SL	ITEM DESCRIPTION	SYMBOL
1	500 MVA, 765/400/33 KV AT (1-PH) $\frac{765}{\sqrt{3}} \frac{400}{\sqrt{3}} \frac{33}{\sqrt{3}}$	
2	CIRCUIT BREAKER WITHOUT CR (1-PH) WITH OUT CSD (4000 A, 50 KA)	
3	CIRCUIT BREAKER WITH CR (3-PH) WITH CSD (3150 A, 50 KA)	
4	ISOLATOR WITH ONE EARTH SWITCH (1-PH) 2000 A, 50 KA	
5	ISOLATOR WITH EARTH SWITCH (1-PH) 2000 A, 50 KA	
6	ISOLATOR WITH TWO EARTH SWITCH (3-PH) 4000 A, 50 KA	
7	ISOLATOR WITH ONE EARTH SWITCH (3-PH) 3150 A, 50 KA	
8	CURRENT TRANSFORMER 3000 A, 50 KA 120 % 1 PH	
9	CURRENT TRANSFORMER 4000 A, 50 KA 120 % 1 PH	
10	765 KV, 8800pF, 1-PH CVT	
11	624 KV SURGE ARRESTER	
12	SF6/AIR BUSHING	

**LEGEND :**

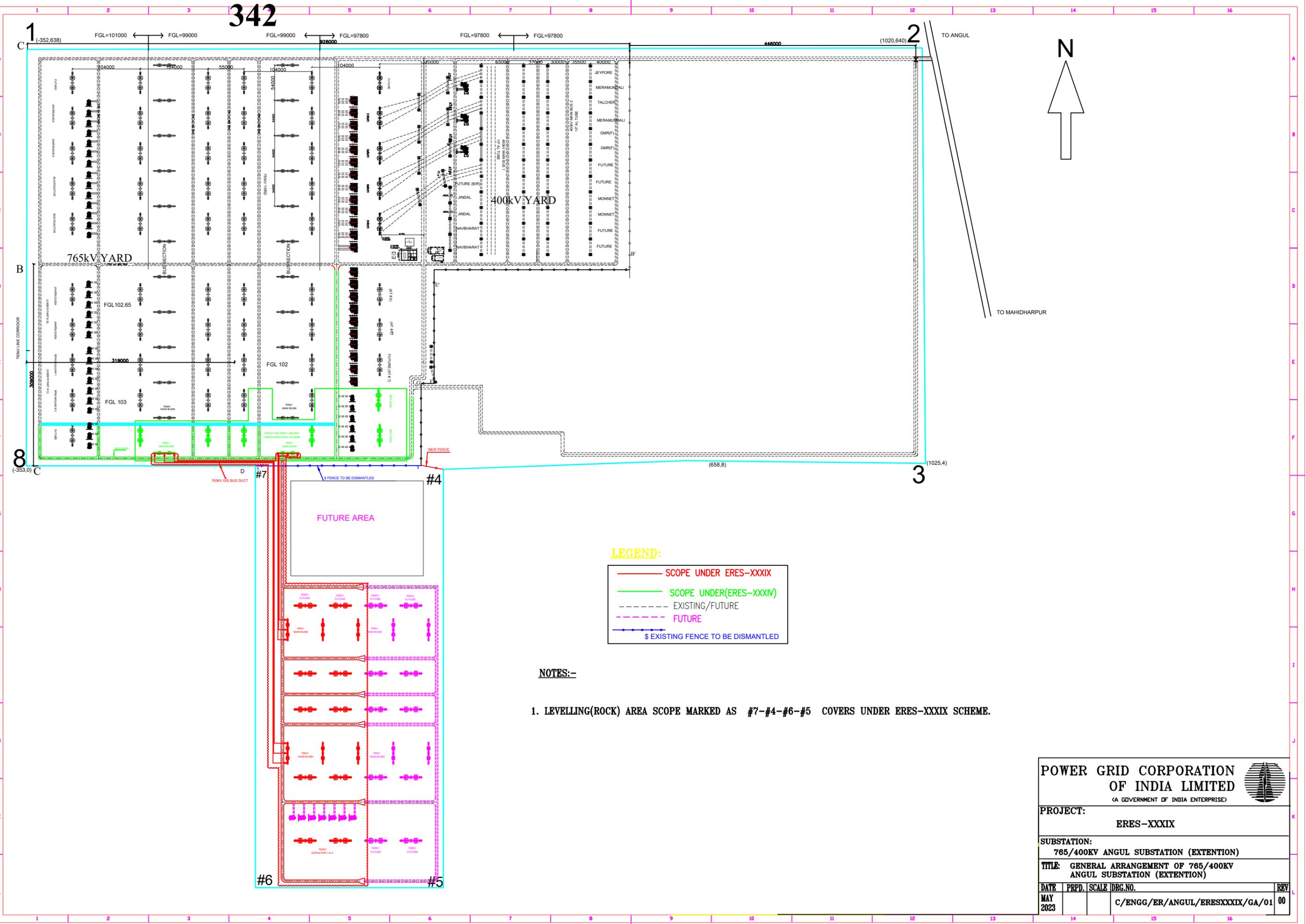
- SCOPE UNDER ERES-XXXIX
- SCOPE UNDER(ERES-XXXIV)
- - - - FUTURE /EXISTING SCOPE

**POWER GRID CORPORATION OF INDIA LIMITED**

(A GOVERNMENT OF INDIA ENTERPRISE)

<b>PROJECT:</b>				
ERES-XXXIX				
<b>SUBSTATION:</b>				
765/400KV ANGUL SUBSTATION (EXTENTION)				
<b>TITLE:</b>				
SINGLE LINE DIAGRAM				
<b>DATE</b>	<b>PRPD.</b>	<b>SCALE</b>	<b>DRG.NO.</b>	<b>REV</b>
MAY 2023			C/ENGG/ER/ANGUL/ERES-XXXIX/SLD/01	00

342



**LEGEND:**

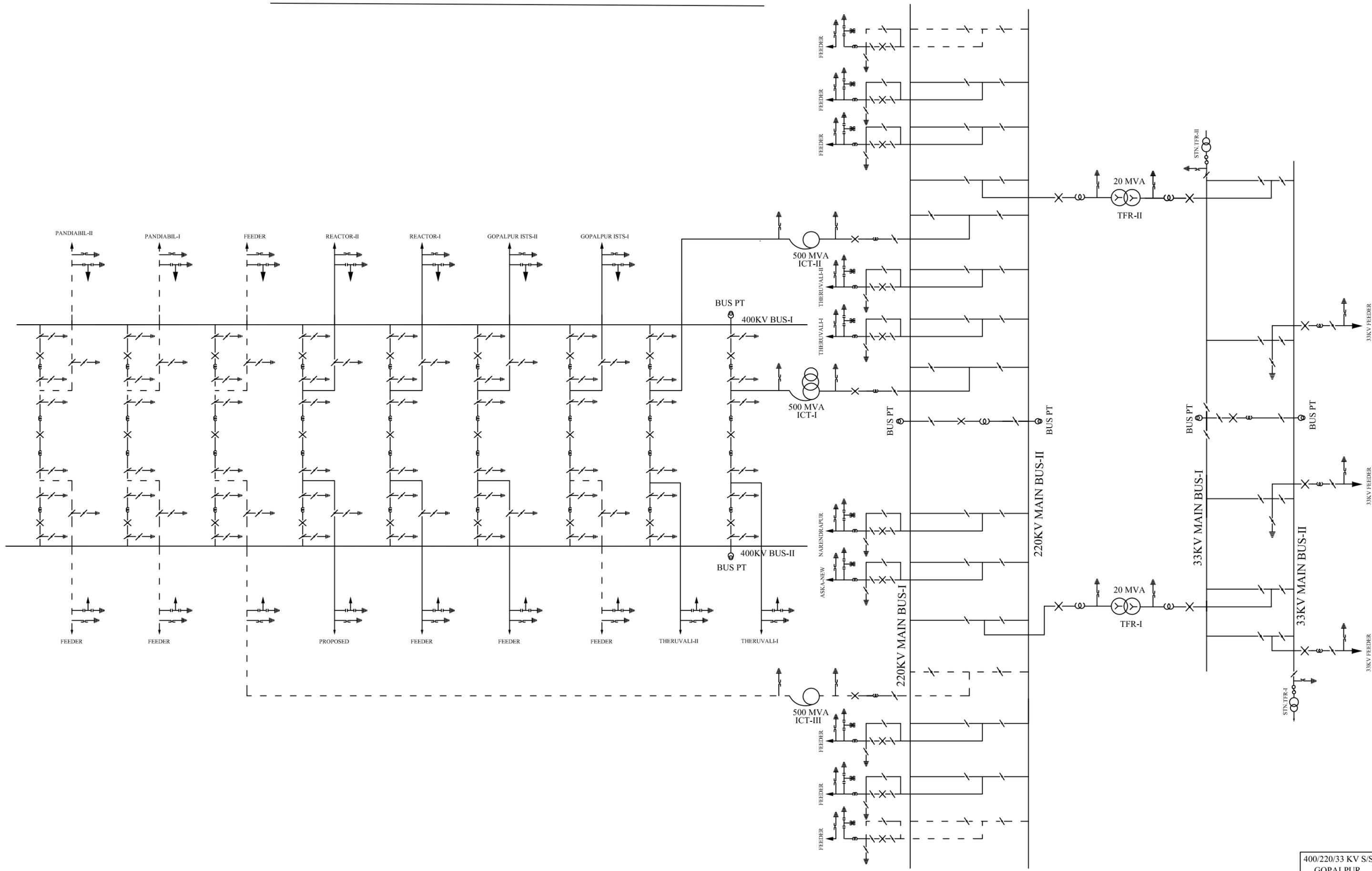
- SCOPE UNDER ERES-XXXIX
- SCOPE UNDER(ERES-XXXIV)
- - - EXISTING/FUTURE
- - - FUTURE
- \$ EXISTING FENCE TO BE DISMANTLED

**NOTES:-**

1. LEVELLING(ROCK) AREA SCOPE MARKED AS #7-#4-#6-#5 COVERS UNDER ERES-XXXIX SCHEME.

<b>POWER GRID CORPORATION OF INDIA LIMITED</b> <small>(A GOVERNMENT OF INDIA ENTERPRISE)</small>			
<b>PROJECT:</b> ERES-XXXIX			
<b>SUBSTATION:</b> 765/400KV ANGUL SUBSTATION (EXTENTION)			
<b>TITLE:</b> GENERAL ARRANGEMENT OF 765/400KV ANGUL SUBSTATION (EXTENTION)			
<b>DATE</b>	<b>PRPD.</b>	<b>SCALE</b>	<b>DRG.NO.</b>
MAY 2023			C/ENGG/ER/ANGUL/ERESXXXIX/GA/01
			<b>REV</b> 00





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# Amendment to Survey report & RA Drawing

for

Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

1. Angul – Gopalpur 765 kV D/c Line



REC Power Development and Consultancy Limited

*(a wholly owned subsidiary of REC Limited)*

D- Block, REC Corporate Headquarter,  
Plot No. I-4, Sector-29, Gurugram-122001

Regd. Office: Core 4, Scope Complex, 7,  
Lodhi Road, New Delhi – 110003

Website : [www.recpdcl.in](http://www.recpdcl.in)

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2.1	Coordinates of the substation
2.2	Index Map of Survey of India (SOI)Topo sheet
2.3	Coordinates of Proposed Route
2.4	Summary of Proposed Route
2.5	Route Alignment Map on Digitized Topo sheet

# 347

## Section:1

### 1. Scope of Work

Eastern Region Expansion Scheme – XXXIX (ERES-XXXIX)

Sl. No.	Details of Transmission Elements
1	Angul – Gopalpur 765kV D/c line along with 2x1500 MVA GIS substation at Gopalpur in Odisha.

**348**

**SECTION:2**

**CHAPTER-2.0**

**Angul– Gopalpur 765kV D/c line**

**CHAPTER-2.1**

**CO-ORDINATES OF THE SUBSTATION**

# 351

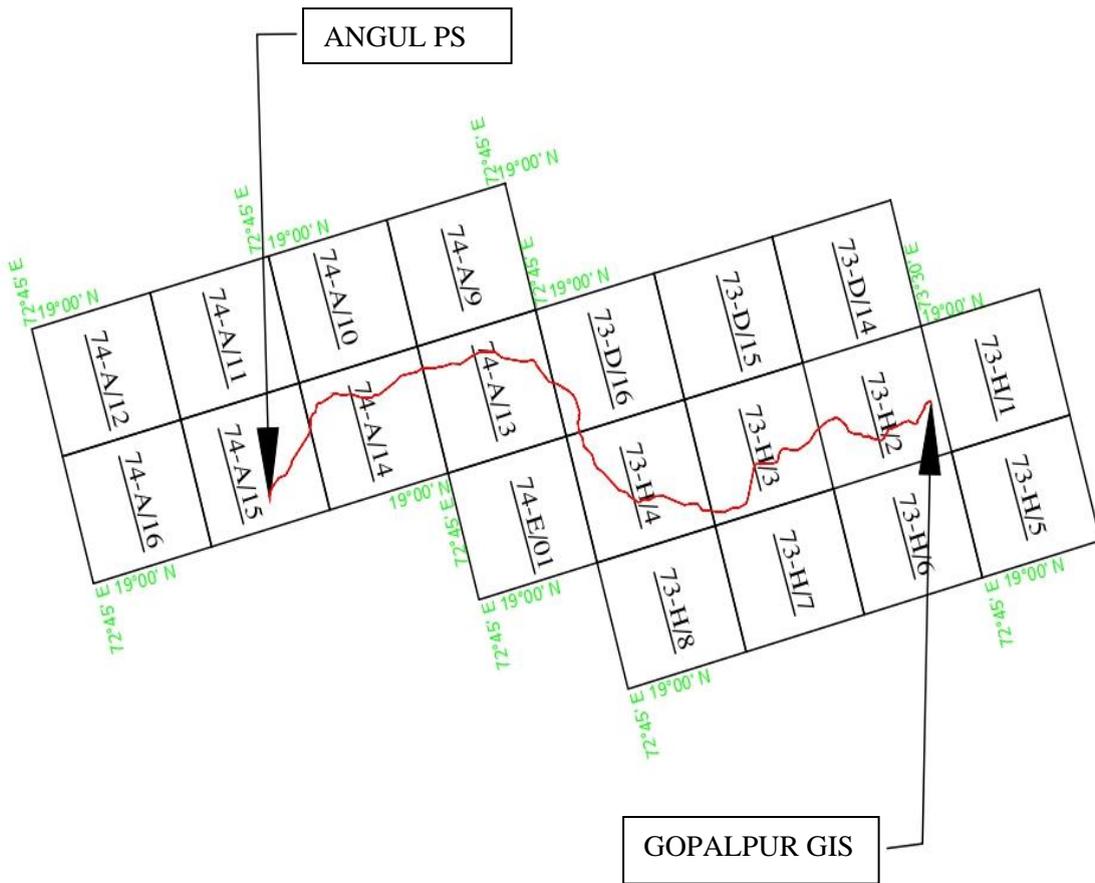
## Substation Detail

<b>Proposed 765/400kV, 2x1500MVAr GIS substation at Gopalpur in Odisha</b>  Village: Srirampur Tehsil: Chhatrapur District: Ganjam State: Odisha	0284476.04E 2144888.25 N	19°23'11.8"N 84°56'52.2"E
<b>Existing 765/400 kV Sub-Station Angul (PGCIL)*</b>  Village:Kansanali Tehsil:Angul District: Angul State:Odisha	0307164.00 E 2293718.03N	20°43'59.3" N 85°08'53.0"E

- \* The exact coordinates for construction of 2 nos. of 765 kV line bays at Angul (PGCIL) for termination of Angul – Gopalpur 765kV D/c line has to be obtained from the substation owner during execution stage.

**CHAPTER-2.2**  
**INDEX OF TOPO SHEETS**

# INDEX TOPO SHEETS:-



**CHAPTER-2.3**

**CO-ORDINATES OF THE PROPOSED ROUTE**

# 355

## Angul – Gopalpur 765kV D/c line

AP No.	Easting	Northing	Latitude	Longitude	Section Length (m)	Cumulative Length (m)	Deviation Angle		Crossing Details	Remarks
AP1	.....	.....	.....	.....	.....	.....	.....	.....	.....	No Change
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AP64	308089	2227442	20° 8'4.79"	85° 9'50.59"		0	13° 49'12.5"	RT		No Change
					560				220kV D/C OPTCL 400 KV Mendhashal Grid – OPTCL Kanteipalli GRID SS Trans. Line, OPTCL & Gas/Oil Pipe line	
AP65	308060	2226882	20° 7'46.57"	85° 9'49.81"		560	25° 54'02.1"	RT		Amendment in the Transmission Route
					818					
AP66	307674	2226161	20° 7'22.99"	85° 9'36.79"		1378	39° 02'01.1"	LT		Amendment in the Transmission Route
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AP78	292239	2216188	20° 1'52.98"	85° 0'49.57"		0	37° 10'12.9"	LT		Amendment in the Transmission Route
					1412					

# 356

## Angul – Gopalpur 765kV D/c line

Angul – Gopalpur 765kV D/c line										
AP No.	Easting	Northing	Latitude	Longitude	Section Length (m)	Cumulative Length (m)	Deviation Angle		Crossing Details	Remarks
AP79	290982	2215545	20° 1'31.59"	85° 0'6.59"		1412	28°02'13.1"	RT		Amendment in the Transmission Route
					414					
AP79A	290569	2215553	20° 1'31.69"	84°59'52.38"		1826	48°09'12.1"	RT		Amendment in the Transmission Route
					287				Gas/Oil Pipe line	
AP79B	290381	2215770	20° 1'38.67"	84°59'45.82"		2113	39°21'44.2"	LT		Amendment in the Transmission Route
					1733					
AP80	288677	2216086	20° 1'48.27"	84°58'47.08"		3846	31°45'3.3"	RT		Amendment in the Transmission Route
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
AP95	273899	2207830	19°57'13.87"	84°50'22.40"		0	37°12'42.8"	LT		Amendment in the Transmission Route
					292				Gas/Oil Pipe line	

# 357

## Angul – Gopalpur 765kV D/c line

AP No.	Easting	Northing	Latitude	Longitude	Section Length (m)	Cumulative Length (m)	Deviation Angle		Crossing Details	Remarks
AP95A	274069	2207596	19°57'6.34"	84°50'28.35"		292	35°24'51.5"	RT		Amendment in the Transmission Route
					382					
AP95B	274076	2207212	19°56'53.86"	84°50'28.76"		674	26°09'43.9"	RT		Amendment in the Transmission Route
					2347					
AP95C	273066	2205094	19°55'44.58"	84°49'54.97"		3021	04°13'43.9"	RT		Amendment in the Transmission Route
					1989					
AP96	272045	2203387	19°54'48.66"	84°49'20.64"		5010	22°09'25.1"	RT		
.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
GNT	.....	.....	.....	.....	.....	.....	.....	.....	Proposed Gopalpur S/s	.....

**CHAPTER-2.4**

**SUMMARY OF PROPOSED ROUTE**

# 359

## Angul – Gopalpur 765kV D/c line

### Summary of the Proposed Route

Sl. No.	Description	Proposed Route
1	Bee Line Length	150.530KM.
	Line Length	<b><u>199.775KM.</u></b>
2	Angle Point	<b><u>138 Nos.</u></b>
3	Proposed/under construction Crude oil/gas pipeline	<b><u>3 Nos.</u></b>  <b><u>AP 64-65,</u></b> <b><u>AP 79A-79B &amp;</u></b> <b><u>AP 95-95A</u></b>
4	Proposed Dedicated freight corridor	<b><u>AP 125-AP126</u></b>

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**CHAPTER-2.5**

**Route Alignment Map on Digitized Topo sheet**

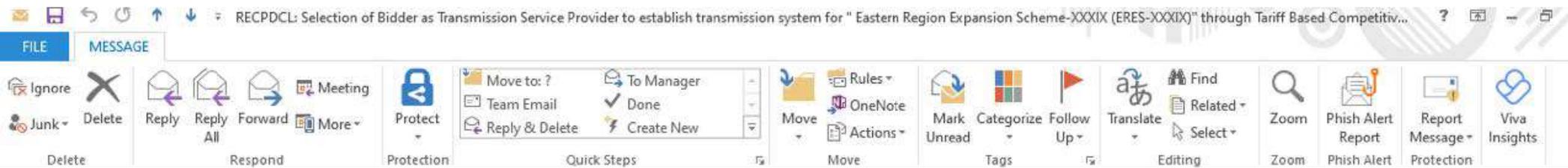
# 361 DISCLAIMER

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The BPC, its authorized representative, any of the Long Term Transmission Customer(s), nor their directors, employees or advisors/consultants make any representation or warranty, express or implied, or accept any responsibility or liability, whatsoever, in respect of any statements or omissions made in the Survey Report, or the accuracy, completeness or reliability of information contained therein, and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of such survey report, even if any loss or damage is caused to the Bidders by any act or omission on their part.

## Annexure P-11



Men 08-04-2024 12:33  
TBCB Projects <tbc@recpdcl.in>  
RECPDCL: Selection of Bidder as Transmission Service Provider to establish transmission system for " Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through Tariff Based Competitive Bidding process-Pre Bid Meeting regarding.

To TBCB Projects

Cc Satyabhan Sahoo Tbc; P S Hariharan; Ritam Biswas; Ankit Kumar; Anil Kumar Perala

Click here to download pictures. To help protect your privacy, Outlook prevented automatic download of some pictures in this message.

[EXTERNAL sender, Exercise caution..!]

Dear Sir,

This has reference to RFP document issued to you for a subject cited project.

In this regard, it is to inform that as per provisions of RFP documents, the Pre-Bid meeting through Video Conferencing has been scheduled on 08.04.2024 (Today) at 1600 Hrs (IST).

The VC link for the meeting is given below:

[meet.google.com/jeb-brwf-ygo](https://meet.google.com/jeb-brwf-ygo)

Thanks & Regards  
Priyanka, TBCB Division,  
RECPDCL, CO, Gurugram.

**Annexure P-12**

Ref. No. RECPDCL/TBCB/ ERES-XXXIX/2023-24/139

Date: 12.04.2024

**The District Magistrate & Collector**Office of the District Magistrate & Collector, Ganjam  
Rama Krishna Nagar, Chhatrapur,  
Humuribana, Odisha 761020**Sub: Allotment of land for "Establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha" under "Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)".**

Dear Sir,

Ministry of Power, Govt. of India has initiated a scheme for development of transmission system through Tariff Based Competitive Bidding Process for evacuation of power from the Generating Stations, Transmission of power from pooling stations to other grid stations up to load centers and strengthening of transmission network.

In line with the above objective, Ministry of Power, Government of India vide its Gazette Notification No. 943 [F. No. 15/3/2018- Trans-Part (1)] dated 01.03.2024 (**copy enclosed**) has appointed REC Power Development and Consultancy Limited (RECPDCL), a wholly owned subsidiary of REC Limited, as the Bid Process Coordinator (BPC) for selection of developer to establishment of transmission system namely "Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)" to be implemented through (TBCB) process under "Tariff Based Competitive Bidding Guidelines" for Transmission Services and "Guidelines for Encouraging Competition in Development of Transmission Projects" (the Guidelines), issued by Ministry of Power, Govt. of India. The preliminary survey work for the subject cited transmission scheme has been completed by RECPDCL. The process involves preliminary survey work, identification of route, identification of land for construction of substation, preparation of Survey Report, initiation of the process of land acquisition, initiation of process of seeking forest clearance (if required) and to conduct the bidding process.

The transmission scheme comprises of the following elements:

1. Establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha
2. Angul - Gopalpur 765kV D/c line
3. Gopalpur - Gopalpur (OPTCL) 400kV D/c (Quad) line

RECPDCL has incorporated a SPV namely "**ERES-XXXIX Power Transmission Limited**" (a wholly owned subsidiary of RECPDCL). All the approvals, consents, clearances and acquisition of land for substation are to be obtained in the name of the SPV.

For the establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha approx. **55 Acres** land is required.



Accordingly, approx. **55 Acres** of land has been identified and the details of land is as follows:

1. Village – Sriramapur,
2. Tehsil - Chhatrapur,
3. District - Ganjam,
4. State- Odisha
5. Total Area of Land - Approx. 55 Acres
6. Type of Land – Agricultural

All above information is based on the field visit and consultation with concerned Patwari. The location of substation on Toposheet and Substation site location map indicating approach road is enclosed for ready reference.

It is requested that approx. **55 Acres** of land as per the above land details and indicated Substation location over the map may kindly be considered for allotment in the name of the SPV “**ERES-XXXIX Power Transmission Limited**” for the establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha at Village – Sriramapur, Tehsil – Chhatrapur, District- Ganjam, Odisha .

It is requested that we will have to complete the necessary formalities as required to be completed by us. For the same, may please be intimated to us so as to ensure timely procedural compliance & avoid any delay during execution stage. An early action in this regard is solicited.

Thanking you,

Yours faithfully,

  
(Satyabhan Sahoo) 12/01/24  
**General Manager, Tech**

**Enclosures:**

1. Copy of Gazette Notification dated 01.03.2024.
2. Location of substation on Toposheet.

Copy to:

1. Sh. P S Hariharan, Chief General Manager, RECPDCL, D Block, REC Headquarter, Plot No. I-4, Sector-29, Gurugram, Haryana-122001

TAX INVOICE (ORIGINAL FOR RECIPIENT) e-Invoice

IRN : 0efd9d0357ea9afe41d44b341f6474ff76058-365-316070243f2af2bd6cb2469d  
 Ack No. : 132418034595269  
 Ack Date : 18-Apr-24



Annexure P-13

<b>REC Power Development &amp; Consultancy Limited</b> (Formerly REC Power Distribution Company Limited) Ground Floor, I-4, RECPDCL REC World Headquarter, Block-D, Sector-29, Gurgaon GSTIN/UIN: 06AADCR7399K1ZP State Name : Haryana, Code : 06 CIN: U40101DL2007GOI165779 E-Mail : fin.delhi@recpdcl.in	Invoice No. <b>HRY/4/24-25</b>	Dated <b>9-Apr-24</b>
	Reference No. & Date.	Other References
Buyer (Bill to) <b>Tata Power Co. Ltd. (RFP)</b> 5th Floor, 34, Corporate Centre, B Wing, Carnac Bunder Road, Carnac, Mumbai City GSTIN/UIN : 27AAACT0054A1Z1 State Name : Maharashtra, Code : 27 Place of Supply : Maharashtra	Buyer's Order No.	Dated

Sl No.	Particulars	HSN/SAC	Rate	per	Amount
1	<b>Income From RFP documents</b> <b>IGST OUTPUT TAX-HARYANA</b>	998431		18 %	<b>5,00,000.00</b> <b>90,000.00</b>
Total					<b>₹ 5,90,000.00</b>

Declaration

We declare that this invoice shows the actual price of the services described and that all particulars are true and correct.

Amount Chargeable (in words)

**INR Five Lakh Ninety Thousand Only**

Remarks:

Being invoice raised to M/s. Tata Power co. Ltd. towards RFP fee for Eastern Region Expansion Scheme-XXXIX (ERES ? XXXIX).

Company's PAN : **AADCR7399K**

(Scan for Payment)

Company's Bank Details

Bank Name : **IDFC First Bank**  
 A/c No. : **10000697415**  
 Branch & IFS Code : **Bahadur shah Zafar Marg, New Delhi & IDFB0020101**

(Scan for Payment)

Company's Bank Details

Bank Name : **IDFC First Bank**  
 A/c No. : **10000697415**  
 Branch & IFS Code : **Bahadur shah Zafar Marg, New Delhi & IDFB0020101**



for REC Power Development & Consultancy Limited



DILLIP KUMAR ROUTH  
 Digitally signed on  
 18-04-2024 12:02:31

Authorised Signatory

SUBJECT TO DELHI JURISDICTION

This is a Computer Generated Invoice

Amendment-II dated 30.04.2024 to RFP Documents for selection of bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.

Sl. No	Clause No.	Existing Clause	New/Revised Clause																																																
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2	RFP & TSA	Name of the Project Specific SPV	All the reference to the name of the SPV may be read as “ <b><u>ERES-XXXIX POWER TRANSMISSION LIMITED</u></b> ”.																																																

Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.

S No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
1.	RFP	“Final Offer” shall mean the Quoted Transmission Charges, required to be submitted as part of the Financial Bid on the electronic bidding platform during the e-reverse bidding stage. In case, no Final Offer is received during the e-reverse bidding stage then the lowest “Initial Offer” shall be deemed to be the Final Offer;	<p>Presently, details of L-1 bidder are not displayed on conclusion of e-RA if there is no receipt of counterbids.</p> <p>In case, two bidders have quoted the same L1, they would be under false impression of having L1 tariff of their own and may not offer further competitive offer. In such scenario, e-RA shall end resulting in premature conclusion of e-RA process.</p> <p>It is requested to update the e-RA platform accordingly to reflect the status of L1 bidder under the above scenario.</p>		For transparency of the competitive price discovery through e-RA	<p>As per provisions of RFP, bidders have to quote transmission charges up to 2 decimal points. Therefore, it is practically not possible to have same Initial Offer from two or more bidders.</p> <p>However, if such situation arises, appropriate decision will be taken by the competent authority.</p>
2.	RFP document and TSA	<p><b>Provisions of RFP</b></p> <p>Clause 1.5</p> <p>....The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the State Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The</p>	<p>Query-1</p> <p>Treatment of tax application at the end of the life of assets.</p> <p>As per section 50C of Income tax act, in case sale consideration received or claimed to be received by seller on sale of land or building or both is less than value adopted by stamp valuation authority (SVA), such value adopted by SVA would become actual sale consideration received</p>			<p><b>Query-1, 2 and 5</b></p> <p>The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTUIL or its successors or an agency as decided by the Central Government after 35</p>

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**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		<p>transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto.</p>	<p>or accruing to the seller. Therefore, capital gain would be Valuation as per stamp valuation authority reduced by cost/indexed cost of acquisition.</p> <p>Treatment of Capital tax and applicable TDS to be clarified.</p> <p>Query-2</p> <p>Modality of transfer of assets to be defined.</p> <p>In case only assets to be transferred then application of stamp duty &amp; other taxes and its treatment to be clarified.</p> <p>Query-3</p> <p>Modalities for O&amp;M, other expenditure etc. for the transition period of 90 days may be confirmed.</p> <p>Availability calculation for the said period?</p> <p>Query-4</p> <p>There could be delay in receipt of payment against receivables. Further, the TSP might have some pending claims against insurance company.</p>			<p>years from COD of project at zero cost and free from any encumbrance and liability.</p> <p>Any taxes, stamp duties and liabilities, as may be applicable, has to be borne by the TSP.</p> <p><b>Query-3 and 6</b></p> <p>The transfer of all project assets along with substation land, right of way and clearances shall be completed at the end of 35 years from COD of the Project.</p> <p>All the expenditure till the transfer of all project assets along with substation land, right of way and clearances shall be borne by TSP.</p>
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**Provisions of TSA**

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

	<p>Definitions:</p> <p>“Project Assets” shall mean all physical and other assets relating to and forming part of the Project including:</p> <p>(a) rights over the Site for substations, ROW for transmission lines;</p> <p>(b) tangible &amp; intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Substations, software, tower and sub-stations designs etc;</p> <p>(c) project facilities situated on the Site;</p> <p>(d) all rights of the TSP under the project agreements;</p> <p><b>(e) financial assets, such as receivables, security deposits etc;</b></p> <p><b>(f) insurance proceeds; and</b></p> <p>(g) Applicable Permits and authorisations relating to or in respect of the Transmission System;”</p> <p><b>2.2.2</b> Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project Assets to CTU or its successors or an agency as</p>	<p>How shall TSP receive these legitimate pending claim or charges after transfer of asset to CTU?</p> <p>Query-5</p> <p>Please confirm that any taxes or charges or cost to be borne by the TSP at the transfer time including sale at value lower than fair value shall be reimbursed to the TSP.</p> <p>These costs are not known at this point of time and might be significant in amount. TSP cannot be exposed such charges.</p> <p>Query-6</p> <p>Modalities for O&amp;M, other expenditure etc. for the transition period of 90 days may be confirmed.</p>			<p><b>Query-4</b></p> <p>Definition of Project Assets is amply clear in this regard.</p>
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**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		decided by the State Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto				
3.	RFP	Clause 2.7.2	<p>The important timelines are mentioned in the table including shortlisting and announcement of Qualified bidder, proposed date of issuance of Lol, transfer of SPV etc.</p> <p>It is observed in the past that in case, there is extension in bid submission date, the revised timelines are not being provided regarding issuance of Lol, transfer of SPV etc.</p> <p>Further, in case of delay in shortlisting of qualified bidders, it is requested to provide the updated dates of financial bid opening and date of conduction of e-RA etc., atleast 1 week prior to financial bid opening, to enable bidders to take appropriate action for participation in e-RA.</p> <p>It is requested to kindly provide the updated table in case of extension in bid submission date/ delay in shortlisting of qualified</p>		For clarity and to comply with SBD requirement	The qualification status is being informed to the bidders invariably. Further, all relevant dates are informed to the bidders, as per provisions of RFP.

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			bidders.			
4.	RFP	2.15.3 After the date of acquisition of the equity shareholding of SPV [which is under incorporation], along with all its related assets and liabilities, by the Selected Bidder, i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency,	Role of BPC has to be complete.	i. the authority of the BPC in respect of this Bid Process shall forthwith cease and any actions to be taken thereafter will be undertaken by the Nodal Agency, save for those which are related to and consequent to the bidding process adopted by the BPC	The BPC shall not relinquish its role after the acquisition but shall have to undertake all activities including providing the certification from the Bid Evaluation Committee etc., and other requirements to enable the Bidder to obtain Transmission license and adoption of Transmission charges. Furthermore, any activity which has an origin traced to the BPC activity/process has to be owned by BPC and the TSP / LTTC is neither aware nor can be made responsible.	The role of BPC is as per the SBD and hence no change envisaged.  However, it may be noted that the BPC shall fulfil its responsibility of providing the certification from the Bid Evaluation Committee to enable the TSP to obtain Transmission license and adoption of Transmission charges.  The details of the contractual obligations (if any) of BPC to be fulfilled by the TSP shall be provided to the bidders along with the tentative Acquisition price of SPV.
5.	RFP	2.15.3 iv. contractual obligations undertaken by the BPC shall continue to be fulfilled by the TSP.	What are the obligations that the BPC has undertaken which needs to be fulfilled by the TSP?	2.15.3 iv. Contractual obligations undertaken by the	Nature of contractual obligations cannot be left open as the	The details of the contractual obligations (if any) of BPC to be fulfilled by the TSP

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

				BPC shall continue to be fulfilled by the TSP if only such contractual obligations have been made available to the bidders 15 days prior to the bid deadline.	same is to be fulfilled by the TSP.	shall be provided to the bidders along with the tentative Acquisition price of SPV.
6.	<b>RFP &amp; TSA</b>	<p><b>Provision of RFP</b></p> <p>2.15.4 Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003</p> <p>Provision of TSA</p> <p>3.1.1.....The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as required under section-63 of</p>	<p>Query-1 We request you to consider at least 30 days' time for completion of these activities.</p> <p>Query-2 Definition of working day is not defined in the TSA. Therefore, it is requested to define working day to avoid ambiguity and litigation later on</p>	<p>Within thirty (30) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003</p>		<p>Query-1 This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p> <p>Query-2 For this purpose, working day shall mean a day on which the office of the Central Commission i.e. CERC is functioning.</p>

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		the Electricity Act .....				
7.	RFP	2.15.6 If the TSP fails to obtain the Transmission License from the Commission, it will constitute sufficient grounds for-annulment of award of the Project	In case TSP fails to obtain the Transmission License the reasons for the same have to be examined.	2.15.6 If the TSP fails to obtain the Transmission License from the Appropriate Commission, the treatment shall be as per provisions 3.3 of the TSA.	Provisions of 3.3 of TSA provides for consequences for non-fulfilment of conditions subsequent. The provisions of RFP as such have to be reflective of TSA.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
8.	RFP and TSA	<p><b>The definition of Contract Year in RFP is as under:</b></p> <p>"Contract Year" shall mean the period beginning on the <b>Scheduled COD</b>, and ending on the immediately succeeding March 31 and thereafter each period of 12 ...:</p> <p>And the definition of Contract Year in TSA is as under:</p> <p>"Contract Year", for the purpose of payment of Transmission Charges, shall mean the period beginning on the COD, and ending on the immediately ..."</p>	<p>As per RFP, the Contract Year shall start from the Scheduled CoD whereas as per TSA, the Contract Year shall start the CoD. As such, both the definitions are contradictory in nature.</p> <p>It is requested to clarify the correct definition of Contract Year.</p>		To avoid ambiguity	The provisions of TSA are amply clear in this regard and shall prevail.
9.	TSA	<p>Clause no 2.3: Conditions prior to the expiry of the Transmission License</p> <p>2.3.1 In order to continue the</p>	There should be a provision in the TSA to cover the revenue loss that may be incurred by the TSP, in the case of the Appropriate Commission not granting		The Transmission Charges to be quoted by the bidders would be based on the cash	This is as per the SBD and amendments thereof, issued by the Ministry of Power.

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		<p>Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at least two (2) years before the date of expiry of the Transmission License, seeking the Commission’s approval for the extension of the term of the Transmission License up to the Expiry Date.</p> <p>2.3.2 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years &amp; upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed about the progress on its application for extension of the term of the Transmission License.</p>	<p>extension of the Transmission License beyond the period of 25 years.</p>		<p>flow generated from the Project for 35 years and if, for any reason not attributable to the TSP (including any change in law), the Transmission License is not extended by the Appropriate Commission beyond 25 years the TSP will suffer significant losses.</p> <p>The RFP / TSA should be suitably modified to provide security of continuation of the transmission business for at least 35 years.</p>	<p>Please also refer Article 4.1 (a) of the TSA.</p>
<b>10.</b>	<b>TSA</b>	<p>3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities <b>within six (6) months</b> from the Effective Date (except for c) below), .....</p> <p>c) To submit to the Lead Long Term Transmission Customers</p>	<p>As per clause 3.1.3 h, the EPC contracts to be awarded in 6 months. Whereas as per clause 3.1.3 c, TSP is required to submit Project Execution Plan after awards of Contracts within 120 days. TSP shall not be in a position to submit project plan within 120 days from effective date if the award of EPC contract is awarded after 120 days, but</p>		<p>For clarity</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		<p>and CTU &amp; Independent Engineer, the Project Execution Plan, immediately after award of contract(s) and maximum within one hundred and twenty (120) days from the Effective Date. ....</p> <p><b>h) To award the Engineering, Procurement and Construction contract (“EPC contract”) for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed;</b></p>	<p>before 6 months period. As such, the timelines mentioned in above clauses are contradictory and the same may be reviewed.</p>			
11.	TSA	<p>Clause 3.3.1: If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months..... in accordance with the provisions of this Agreement</p>		<p>Suggested text to be added at the end of this Article: “..... The additional Contract Performance Guarantee, if any provided by the TSP for delay in fulfilment of condition subsequent, shall be returned by the CTUIL on fulfilment of conditions subsequent by the TSP”</p>	<p>The additional CPG is for specific default(s) and once such default(s) cease to exist, this additional amount of CPG should be returned. Additional CPG cannot be held back by the CTUIL till COD of the Project.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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<b>12.</b>	<b>TSA</b>	<p>Clause no 3.3.4: In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.</p> <p>.....</p>	<p>The terms and conditions for termination of the TSA under this Article, including the termination payment and status of the SPV, need to be provided in the TSA.</p>		<p>In case the Force majeure event continues, the TSA will be terminated and the CPG will be returned. Other expenses that would have been incurred till the date of termination of the TSA including the Acquisition Price paid for Acquiring the SPV and other incurred costs shall also be explicitly stated. There should be an explicit provision for refund of the Acquisition Price, along with the other expenses incurred by the TSP / Selected Bidder till such date of termination.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>
<b>13.</b>	<b>TSA</b>	<p>3.3.4</p> <p>.....</p> <p>Provided, that due to the provisions of this Article 3.3.4, ..... If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be</p>	<p>In case project suffers from Force Majeure event for a period less than 6 months, interest cost during construction may be considered.</p>		<p>For project viability.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged</p>

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		<p>allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9</p> <p>11.7 (e) Available Relief for a Force Majeure Event For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such as interest cost,.....</p>				
14.	TSA	<p>4.6 Interconnection Facilities:</p> <p>4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities.</p> <p>4.6.2 In order to remove any</p>	<p>It is understood that if interconnection facilities at the interconnection point is not available, whereas TSP has completed rest of the scope of the project, the project shall be considered as deemed COD and TSP shall be entitled to all the benefits envisaged under the TSA.</p>		For clarity.	The provisions of TSA are amply clear in this regard & shall prevail.

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		doubts, it is made clear that the obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.				
15.	TSA	<p><b>6.1 Connection with the Inter-connection Facilities:</b> 6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 &amp; 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.</p> <p>6.2.1 An Element of the Project shall be declared to have achieved COD twenty four (24) hours following the connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or</p>	<p>Reference is drawn to the Order of CERC 4/ADP/2016 dated 23.03.2016. Relevant extract of the Order is reproduced hereunder:</p> <p>“In the event the inter-connection facilities are not ready by SCOD or by revised SCOD (as may be revised by the petitioner and the LTTCs for the purpose of availing incentive as per MOP Policy) on account of non-readiness of the upstream or downstream transmission assets while the petitioner’s transmission system is ready for commissioning, the COD of the transmission assets of the petitioner may be declared in accordance with the provisions of Article 6.2 of the TSA (to be known as “deemed COD”) and the LTTCs/developers of the upstream and downstream assets shall be liable to pay the transmission charges from the deemed COD till the transmission assets are put into actual use.”</p>		Order of CERC 4/ADP/2016 dated 23.03.2016.	This shall be treated as per applicable CERC Regulations/ Orders/ TSA.

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		<p>seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2.</p> <p>Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to have achieved their respective COD.</p> <p>6.2.2 Once any Element of the Project has been declared to have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element.</p>	<p>From above, it is seen that even in case of SCOD when the systems are declared deemed COD as per Article 6.2 of TSA, till the transmission assets are put into actual use, the transmission charges are liable to be paid by DICs/developers of the upstream and downstream assets.</p> <p>In such situations, it shall be construed that BPC has obtained consent of the DICs/ Upstream / Downstream / Generators (as applicable) for payment of transmission charges.</p> <p>Further, as per CERC order no. 104/MP/2018 dated 18th September 2018, downstream was directed to pay transmission charges to TSP.</p>			
16.	TSA	<p><b>Clause 6.3.1 (b)</b> In case of delay due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled</p>	<p>Clause 6.3.1 (b) covers the loss on debt amount which includes, due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for</p>			<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is</p>

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		for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non-continuous Months in the manner provided in (c) below.	payment for debt service which is due under the Financing Agreements. However, any loss on the equity is not covered in the above clause.  In order to compensate for the loss due to Indirect Non-Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, compensation to both equity as well as debt to be covered as per clause 6.3.1 (a).			envisaged.
17.	TSA	10 BILLING AND PAYMENT OF TRANSMISSION CHARGES  10.3 Rebate & Late Payment Surcharge	Any changes in CERC regulations, which have an implication on Billing cycle and/or cost implication to the TSP due to change in rebate and late payment surcharge, the same shall be allowed to be recovered under Change in law.			This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
18.	TSA	Clause no. 10.1: Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of this agreement, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.		Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s)	As per clause 6.2 of the TSA, the TSP is eligible for payment of Transmission charges from the date of deemed COD.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.

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				has achieved COD <u>or deemed to have achieved COD</u> until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement		
19.	TSA	11.4 Force Majeure Exclusions 11.4.1 (g) Any error or omission in the survey report provided by BPC during the bidding process.	The survey report furnished by BPC has to be accurate and any error or omission has to be owned by the BPC. Professional fees including fees for survey report is also claimed by BPC.			This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.  Please also refer Clause 2.5.7 of RFP Document.
20.	TSA Clause 12.1.1	Clause 12.1.1  Change in Law means the occurrence of any of the following <b>after the Bid Deadline</b> resulting into any additional recurring / non-recurring expenditure by the TSP or any savings of the TSP....	It is mentioned that in case any change in law event occurs on bid submission date or just prior to bid submission date, the bidders shall not have adequate time to understand the cost implication of such change in law event. Bidders cannot be exposed to such uncertainties and thereafter it is requested to consider any event after 7 days prior to bid deadline as Change in Law event.			This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.  Please also refer Clause 2.5.7 of RFP Document

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			Furthermore, the bid submission is fixed at 12 noon. Whereas change in event could happen during the day even after 12 noon. Such clause can have serious implications on the viability of the project.			
21.	TSA	<p>12.1.2 Notwithstanding anything contained in this Agreement, Change in Law shall not cover any change:</p> <p>a. Taxes on corporate income; and; and</p> <p>b. Withholding tax on income or dividends distributed to the shareholders of the TSP.</p>	Any tax applied on the income or profits of the TSP need to be covered under change in law.		<p>Tax is an element beyond the control of the TSP.</p> <p>Change in tax or introduction of any tax is covered under change in law.</p> <p>Tax rate applicable on the income or profits of the TSP is beyond the control of the TSP and to assume the same for 35 years shall be a risk which is best assumed by the LTTCs accordingly this is to be reviewed.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p> <p>Also, please refer to clause 2.5.7 of the RFP.</p>
22.	TSA	<p><b>Clause 13.7</b></p> <p>If Agreement is terminated on account of Force Majeure Events, nonrequirement of any</p>	Kindly furnish the methodology of calculation of valuation of project asset.		<p>For clarity</p> <p>Valuation of project assets shall be done as per the prevailing industry practices. Further, please refer</p>	

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		Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets				Clause 18.2 e) of TSA
23.	TSA	<p><b>Clause 10.1.2.1</b></p> <p><b>10.1.2.1</b> 1 Any amount payable under an Invoice shall be paid in immediately available and freely transferable clear funds, for value on or before the Due Date, to such account of the TSP or Long Term Transmission Customer as shall have been previously notified to Long Term Transmission Customer or the TSP, as the case may be</p> <p><b>10.3 Rebate &amp; Late Payment Surcharge:</b></p> <p><b>10.3.1 Rebate:</b> In case the Long Term Transmission Customer pays to the TSP through any mode of payment in respect of a Monthly Transmission Charge Invoice or Supplementary Bill, the following shall apply:</p> <p>a. For payment of Invoices</p>	<p>Timelines for payment of transmission charges is linked to “due date”. However, the “due date” is not defined in the TSA.</p> <p>It is requested to provide the definition of “due date” to avoid confusion and litigation.</p>		For clarity	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.

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		<p>through any mode of payment, a Rebate of 2% shall be allowed on the Monthly Transmission Charge Invoice or Supplementary Bill for payments made in full within two Business Day of the receipt of the Invoice; or</p> <p>b. For payment of Invoices subsequently, but within the Due Date, a Rebate of 1% shall be allowed on the payments made in full.</p> <p>and</p> <p><b>others</b></p>				
24.	RFP	<p>Clause 2.1.2</p> <p>“ Experience of development of projects in the Infrastructure Sector in the last five (5) years with aggregate capital expenditure of not less than Rs..... Crore or equivalent USD (calculated as per provisions in Clause 3.4.1). However, the capital expenditure of each project shall not be less than Rs..... Crore or equivalent USD (calculated as per provisions in Clause 3.4.1</p> <p>For this purpose, capital expenditure incurred on</p>	<p>As per QR, the capital expenditure under reference shall be as capitalised and reflected in the audited books of accounts of Technically Evaluated Entity.</p> <p>In above regard, please clarify the following:</p> <p>Whether entire capital expenditure of various Project(s), meeting the value-wise threshold requirements of QR, as capitalised in last five years in the audited books of accounts of Technically Evaluated Entity, shall be considered;</p> <p>OR</p>		For more clarity for submission of appropriate QR credentials	Provisions of RFP Document are amply clear in this regard and shall prevail.

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		projects that have been commissioned/ completed at least seven (7) days prior to Bid Deadline shall be considered. The capital expenditure discussed above shall be as capitalized and reflected in the audited books of accounts of the Technically Evaluated Entity.....”.	Whether only the capital expenditure incurred in the last five years of such Project(s), capitalised in last five years in the audited books of accounts of Technically Evaluated Entity, shall be considered.			
25.	RFP	Clause 2.11 Each Bidder shall submit the Bid accompanied by Bid Bond issued by any of the Banks listed in Annexure-17. The Bid Bond shall be valid for a period of thirty (30) days beyond the validity of the Bid.	Verification of issued bid bond is done by the beneficiary bank of the BPC through SFMS platform from the issuing bank of the bidder. In above regard, BPC is requested to provide following details. Bank account detail of beneficiary alongwith IFSC code and Branch address Unique Identifier of the beneficiary (if applicable) (The unique identifier needs to be incorporated by the issuing bank in Field 7037 of the IFIN 760 COV/IFIN COV while transmitting verification messages to the Beneficiary Bank through SFMS).		Bidder needs information for issuance of Bid Bond	Requisite details have already been provided in the RFP document.
26.	RFP	Annexure 14 (Format of the Bid Bond) Addressee details are not mentioned in the beginning of the format  _____	Addressee details to whom Bid Bond is to be addressed are not mentioned in the Bid Bond Format. It is requested to mention the followings at starting of the format:			This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.

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		Annexure 14 (Format of the Bid Bond) “....In consideration of the.....”	Annexure 14 (Format of the Bid Bond) “ To, Designation of officer Name of BPC Address of BPC  In consideration of the..... “			
27.	RFP	Clause 1.6.2.2 – The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that it may take further actions to obtain <b>Consents, Clearances and Permits</b>	BPC to get the GST registration and GST TAN registration in the name of SPV in the State of Project execution where supply of Goods and Services shall take place.		For immediate commencement of execution of work by the SPV upon acquisition by the successful bidder.	BPC will complete its responsibilities as listed in the RFP documents. Please also refer Clause 1.6 & 2.5.7 of the RFP document.
28.	SPA	Clause 1.2 (i)  “Acquisition Price” shall mean INR  _____ (Rupees  _____ only) [Insert the value of the Acquisition Price, both in figures and in words respectively], which is the aggregate consideration payable by the Selected Bidder towards purchase of the Sale Shares at par along	As per clause 1.2 (i) of the Share Purchase agreement, BPC is required to provide audited financial statement as on the closing date for adjustment, if any, in regard to aggregate consideration for acquisition of the SPV.  It is requested to BPC to furnish audited financial statement within 15 days of the closing date.		Audited financial statement is required for accounting in the books of successful bidder to ascertain acquisition price on closing date. An undertaking that the audited financial statements shall be provided within 15 days from the	Provisions of SPA shall prevail.

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		with assets and liabilities of the Company as on the Closing Date subject to adjustment as per the <b>audited accounts of the Company</b> as on the Closing Date;			closing date may be furnished by BPC for making the payment of acquisition price by successful bidder.	
<b>29.</b>	Clause No. 2.5, Section – II of RFP Documents	<p>2.5 The Bidding Process</p> <p>.....</p> <p>The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by <b>30 minutes</b> from the last received bid time, if the bid is received during the last <b>30 minutes</b> of the scheduled or extended bid time. Subsequently, it will be extended again by <b>30 minutes</b> from the latest received bid time.</p> <p>.....</p>		<p>2.5 The Bidding Process</p> <p>.....</p> <p>The initial period for conducting the e-reverse bidding should be 2 hours which will be extended by <b>15 minutes</b> from the last received bid time, if the bid is received during the last <b>15minutes</b> of the scheduled or extended bid time. Subsequently, it will be extended again by <b>15 minutes</b> from the latest received bid time.</p> <p><b>In case e-Reverse Bidding is not completed</b></p>	<p>As per revised Standard Bidding Documents, the bidders are required to quote single annual Transmission Charge from the date of SCOD of the project till expiry date in initial bid and in the e-RA. During e-RA, the initial time period for e-RA is 2 hours with extension of 30 minutes from last bid.</p> <p>In this regard, it is submitted that the bidder is required to quote single number as annual transmission charges. Further, there is option for automatic reduction in e-RA</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power. hence, no change is envisaged.</p>

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				<p>by 20:00 Hrs (IST), then the e-Reverse Bidding shall be paused and will resume on the next working day at 10:00 Hrs (IST). The prevailing L1 bidder at the time of pause on the previous day shall continue to be the L1 bidder at resumption of e-Reverse Auction. On resuming, the e-Reverse Bidding shall be conducted for 60 minutes, which will be extended by 15 minutes from the last received bid time, if the bid is received during the last 15 minutes. Subsequently, it will be extended again by 15 minutes from the latest received bid time.</p>	<p>portal. Therefore, the extension of 30 minutes from last bid submission may be reduced to 15 minutes.</p> <p>Further, in case the bidding extends beyond office hours, the e-RA may be paused and resumed on the next working day as being followed by major eps providers including Mjunction etc.</p>	
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				The above shall continue till the e-Reverse Bidding gets concluded. .....		
30.	RfP Document SPECIFIC TECHNICAL REQUIREMENT S FOR SUBSTATION  Page 150 Sr. no. B.5	EXTENSION OF EXISTING SUBSTATION . Single Line Diagram General Arrangement Visual Monitoring System Bus Bar Protection Substation Automation System (SAS) .	Details of existing drawings have been mentioned for 765kV Extension at Angul substation. However, the drawings are not enclosed with RFP document. Kindly provide the existing drawings as mentioned in RFP.		Bidder needs information for proper estimation.	Please refer <b>Appendix A</b> already issued to the bidders.
31.	Transmission Service Agreement	Clause 5.5.6: For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.	Please note that as a general practice, the CERC considers any request for an extension of time post COD of the Project. BPC is requested to clarify that 10% of CPBG will be invoked even when such delay is caused due to FM events and without adjudication on the validity of such claims?		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power.
32.	Transmission Service Agreement	Clause 2.2.2: It is required that post the Expiry Date, the TSP to transfer the Project to CTU within a period of 90 days.	BPC to clarify the following:  i) Who will be responsible for O&M of the Project post expiry date till the Project is transferred, as TSA will automatically terminate on		Bidder needs the information for proper estimation.	The transfer of all project assets along with substation land, right of way and clearances shall be completed at the end of 35 years from COD of the Project. All the

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			<p>Expiry Date?</p> <p>ii) Whether the TSP will be paid for the O&amp;M for the period post Expiry Date till the Project is transferred if the TSP will manage the O&amp;M post Expiry Date?</p>			<p>expenditure till the transfer of all project assets along with substation land, right of way and clearances shall be borne by TSP.</p>
33.	<p>RFP for Selection of Bidder as Transmission Service Provider</p>	<p>RFP, section-1, Clause 1.5, Para 3</p> <p>“The TSP shall ensure transfer of all project assets along with substation land, right of way and clearances to CTU or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto”.</p>	<p>i. Please note that there is no clarity about the liability of the TSP post Transfer of asset. We request BPC to define the process of Transfer.</p> <p>ii. As the project is BOOT basis, we request BPC to provide Transfer Agreement for bidder’s review and assessment.</p> <p>iii. As the project is BOOT basis, what will be the Liability of TSP in case of any Default post Transfer to CTU.</p> <p>iv. As per the RFP, the transfer shall be completed within 90 days after 35 years from COD of project failing which CTU shall be entitled to take over the project assets Suo moto. We request BPC to confirm whether the Project is required to be given on as is where is basis or if CTU can ask for certain refurbishments to be done?</p>		<p>Bidder needs the information for proper estimation.</p>	<p>1. The project assets along with substation land, right of way and clearances shall be transferred to nodal agency or its successors or an agency as decided by the Central Government after 35 years from COD of project at zero cost and free from any encumbrance and liability and no elaborate process is required to be laid down. Further, other issues, if any, shall be dealt as per prevailing laws &amp; regulations.</p> <p>2. Transfer Agreement, if required, may be mutually agreed between the parties at</p>

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			v. It is requested to BPC to confirm will there be an obligation of the TSP to obtain re obtain the clearance at the time of Transfer, in case of NHAI, Road, Highways etc.			that point of time.  3. In case there is any liability due to an event that has occurred post transfer to CTU, the same shall be dealt with as per prevailing laws & regulations  4. The project assets will be transferred in working condition subject to observations of Nodal agency in the examination to be carried out three (3) years prior to the expiry of the project to assess the need of upgradation of the system or renovation and modernization of the existing system.  5. Please refer to the definition of “Project Assets” in this regard which is amply clear and shall prevail.
<b>34.</b>	RFP for Selection of Bidder as Transmission	RFP, Section-2 Clause no. 1.6.1.5 – Grant of Section 164 Approval -	We request BPC to confirm that in case of delay in grant of section 164 approval beyond 45 days by CEA, will this qualify as Force		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power. The

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	Service Provider	The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of ER NER Transmission Limited. The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).	Majeure (FM) event under TSA, and we can get relief as per TSA.			provisions of RFP shall prevail.
35.	RFP for Selection of Bidder as Transmission Service Provider	Request for Proposal Notification, Disclaimer  This RFP may be withdrawn or cancelled by the BPC at any time without assigning any reasons thereof. BPC further reserves the right, at its complete discretion to reject any or all of the Bids without assigning any reasons whatsoever.”	We would like to mention that it will be unreasonable on part of BPC to reject a bid without assigning any reason. Since the BPC can be construed as ‘state’ under the Constitution, conduct of BPC ought to have transparent and as such BPC cannot take any decision without assigning proper reason/ justification.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power. The provisions of RFP shall prevail.
36.	RFP for Selection of Bidder as Transmission Service Provider	Definition: Conflict of Interest” A Bidder shall be considered to be in a Conflict of Interest with one or more Bidders in the same bidding process if they have a relationship with each other, directly or through a common company, that puts them in a position to have access to information about or influence the Bid of another Bidder	It needs to be noted that this definition is vague and wide in as much as it only requires that an entity is able to have access; it is immaterial whether information was accessed or not, just the fact that a party is in a position to access information or influence bid of another party is enough. As far as this aspect is concerned, this definition should be amended.  This should further cover any conflict-of-interest situation		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.

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			between the BPC and any of the bidder.			
37.	RFP for Selection of Bidder as Transmission Service Provider	Annexure-B, Clause 3.3 provides that “the Bidder shall disclose the name and address of agents and representatives and Indian Bidder shall disclose their foreign principals or associates”.  Clause 3.4 states that “the Bidder shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid”.	BPC is requested to clarify the rationale for having this clause? We understand that The Bidder is free to engage any consultant as long as it is under the purview of applicable law.		Bidder needs the information for proper estimation	This is as per the SBD and amendments thereof, issued by the Ministry of Power. The provisions of RFP shall prevail.
38.	Transmission Service Agreement	TSA: Clause F  The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.	Please note that the Sharing Regulations only provides for Supplementary TSA and Revenue Sharing Agreement with CTU.  Kindly confirm is there any other Agreement which is also required to be signed?		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power.
39.	Transmission Service Agreement	TSA: Clause H  The billing, collection, and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations.	In case of the default in the payment by the DIC, BPC is requested to clarify following: a) How will the Transmission charges be recovered? b) what is the assurance for recovery of Transmission charges in view of the repeal of the Regulation of the power supply 2010 by the CERC.		Bidder needs the information for proper estimation.	The payment of Transmission Charges by the CTU to the ISTS Licensee shall be governed as per CERC Sharing Regulations, as amended from time to time.

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40.	Transmission Service Agreement	<p>TSA ARTICLE: 1 Definitions and Interpretations Independent Engineer” shall mean an agency/ company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging Competition in Development of Transmission Projects</p> <p>TSA ARTICLE: 18 18.3 Remuneration of Independent Engineer</p>	<p>We understand that as the Independent Engineer to be appointed by Nodal Agency (CTU), The fee and charges of the Independent Engineer shall be paid by CTU and TSP does not have to consider any fee and charges of the Independent Engineer in its bid.</p>		Bidder needs the information for proper estimation.	Provisions of the TSA are amply clear in this regard and shall prevail.
41.	Transmission Service Agreement	<p>TSA ARTICLE: 1 Definitions and Interpretations Definition of Nodal Agency Nodal Agency” shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);</p>	<p>The proviso to the definition states that while taking major decisions, CTU shall consult CEA on technical matters and any other matter if it feels necessary.</p> <p>BPC is requested to provide clarity on what would constitute ‘major decisions’; further, what would be the nature of consultation is not clear, whether such consultation would be binding or just advisory in nature? Further, there is an element of discretion as well on the part of CTU, which should be done away with.</p>		Bidder needs the information for proper estimation.	Provisions of the TSA are amply clear in this regard and shall prevail.
42.	Transmission Service Agreement	<p>TSA ARTICLE: 6 Clause no. 6.1.1 The TSP shall give the</p>	<p>BPC is requested to clarify in case of preponement of COD, whether the agreement will be effective for a period of 35 years</p>		Bidder needs the information for proper estimation.	Provisions of TSA are amply clear in this regard and shall

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		RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 & 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.	from the date of such COD, or will there be extra period that will be granted to TSP as an incentive for declaring the commissioning earlier than the SCOD?			prevail.
<b>43.</b>	Transmission Service Agreement	TSA ARTICLE: 11 Clause no. 11.4.1 ..... (g) Any error or omission in the survey report provided by BPC during the bidding process.	We request BPC to remove the point no g form the Force Majeure Exclusions.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
<b>44.</b>	Transmission Service Agreement	TSA ARTICLE: 13 Clause no.13.7 Termination Payment - If Agreement is terminated on account of Force Majeure Events, nonrequirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall	As there is no mechanism for termination payment. We request BPC to provide the mechanism for compensating the cost incurred by the TSP for construction of asset, in case of non-requirement of any element during construction stage.		Bidder needs the information for proper estimation.	Valuation of project assets shall be done as per the prevailing industry practices. Further, please refer Clause 18.2 e) of TSA.

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		be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.				
45.	Transmission Service Agreement	<p>TSA ARTICLE: 3            Clause No. 3.3.4            Provided, that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1.3, shall lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.</p>	<p>What is the rationale for only IDC recovery and no other expenditure like project cost overrun (such as overheads &amp; price variation etc.)</p>		<p>Bidder needs the information for billing purpose.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>
46.	Transmission Service Agreement	<p>Clause 5.5.6: For any delay in commissioning any critical Element(s), as identified in Schedule 1 &amp; Schedule 2 of this Agreement, beyond a</p>	<p>Please note that as a general practice, the CERC considers any request for an extension of time post COD of the Project. BPC is requested to clarify that 10% of CPBG will be invoked even when</p>		<p>Bidder needs the information for proper estimation.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power.</p>

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		period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.	such delay is caused due to FM events and without adjudication on the validity of such claims?			
47.	Transmission Service Agreement	TSA ARTICLE: 8 8.2 Target availability The Target Availability of each Element and the Project shall be 98%.	As per previous TSA, target availability was at project level not for each element. We request BPC to maintain target availability at Project level only.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
48.	Transmission Service Agreement	TSA ARTICLE: 12 Relief for change in law 12.2.3 - 12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Nodal Agency documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.	Please note that No timelines defined for response by . We request BPC to define timeline in which CTU will respond to the TSP.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
49.	Transmission Service Agreement	TSA ARTICLE: 12 Payment on account of Change in Law 12.4.1 The payment for Change in Law shall be through a separate Bill. However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be	BPC is requested to provide the format and timeline for submission of sperate bill of sperate bill for settlement of CIL events?		Bidder needs the information for proper estimation.	The provisions of TSA are amply clear in this regard.

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		raised by the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.				
50.	Transmission Service Agreement	<p>Schedule 2</p> <p>The payment of Transmission Charges for any Element, irrespective of its successful commissioning on or before its Scheduled COD, shall only be considered after successful commissioning of the Element(s), which are prereduced for declaring the commercial operation of such Element as mentioned in the above table.</p>	BPC is requested to clarify that in case an element is successfully commissioned and is put to use/power flows, but the pre-required element is not successfully commissioned. Will TSP be eligible for getting Tariff?		Bidder needs the information for proper estimation.	The provisions of TSA are amply clear in this regard and shall prevail.
51.	Transmission Service Agreement	<p>Schedule 9</p> <p>Methodology for determining the Relief Under Force Majeure Event &amp; Change in Law during Construction Period</p> <p>The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days and/ or Change in Law during the construction period shall be as under: <math>\Delta T = [(P \times d)] \div [1 -</math></p>	What is the rationale for the increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero-point three percent) of the quoted Transmission Charges of the TSP.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power.

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		(1+ d)^(-n)]				
52.	RFP for Selection of Bidder as Transmission Service Provider	ANNEXURE 22 – FORMAT FOR AFFIDAVIT	We would like to mention that with reference to the RFP Clause 2.1.9 Bidders shall confirm a notarized affidavit as per Annexure 22. Please note for large conglomerates signing on behalf of all the affiliates can run into hundreds of numbers and different geographies, is practically impossible. We request you to allow Annexure-22 to be signed by the Authorized signatory of the Bidding company on behalf of Bidding entity only.		Bidder needs the information for preparation of techno-commercial bid.	The declaration and details with respect to Clause 2.1.9 of RFP is to be provided by the bidding company including Affiliate / Parent company of the Bidding company being used for meeting financial / technical qualification requirements as per Annexure 22 of the RFP document. The signing of the format has to be done as per provisions of RFP Document.
53.	RFP for Selection of Bidder as Transmission Service Provider	Definitions: Transmission Service Agreement” or “TSA” shall mean the agreement entered into between Nodal Agency and the TSP, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis.	As per the bidding documents TSA shall be signed between Nodal agency and TSP only. We request BPC to clarify role of Designated ISTS Customers and linkage of Designated ISTS Customers to TSA.		Bidder needs the information for proper estimation.	Please refer Clause 2.5.7 of RFP.
54.	Transmission Service Agreement	Schedule: 9 Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction	As per Schedule 9 of the TSA, the Discount rate as notified by the CERC would be applicable for calculation of relief under occurrence of Change in Law and Force Majeure event. CERC		Bidder needs information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power.

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		Period.	notified 'Discount rate for computation of levelized transmission charges' is 7.8% on April 2023. please confirm if this Discount rate for computation of levelized transmission charges is to be considered for this calculation under schedule 9.			
55.	RFP for Selection of Bidder as Transmission Service Provider	Definitions: "Bid Bond" shall mean the unconditional and irrevocable bank guarantee Rupees Twenty Three Crore Twenty Lakhs Only (Rs. 23.20 Crore), to be submitted along with the Technical Bid by the Bidder	We would like to bring to your kind attention the Government's progressive decision to allow Insurance Surety bonds as a security mechanism. This was announced by the Hon'ble finance minister during the Union budget for FY-23.		Bidder needs the information for proper estimation.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
56.	RFP for Selection of Bidder as Transmission Service Provider	2.12 Contract Performance Guarantee Within ten (10) days from the date of issue of the Letter of Intent, the Selected Bidder, on behalf of the TSP, will provide to the Nodal Agency the Contract Performance Guarantee for an amount of Rs. 58 Crore	The Hon'ble Ministry of Road Transport & Highways has already taken a significant step by amending the bidding documents for EPC, HAM, and BOT (ToT) projects, incorporating provisions for accepting insurance surety bonds as 'Bid Security' and 'Performance Security'.  Considering the capital-intensive nature of transmission projects, we request BPC to also allow submission of Insurance Surety Bonds as an alternative to Bank Guarantees as a security mechanism.			

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57.	RFP & TSA	General	<p>We request you to clarify whether there are any deviations/addition in the RFP/TSA documents from the Standard Bidding documents (SBD) and if any, whether approval for the same has been taken or not.</p> <p>Please provide the list of the same, if any.</p>			<p>The RFP/ TSA Documents are as per the Standard Bidding Documents (SBDs) and subsequent amendments issued by the Ministry of Power, Gol.</p>
58.	RFP	General	<p>We request you to let us know the status of TSA signing.</p>		<p>SPV Acquisition is linked to TSA Signing and it is very important to get the clearance before RFP Submission as this will impact the initiation of projects</p>	<p>As per revised TBCB Guidelines and SBD issued by MoP, Gol, TSP on the date of acquisition of SPV from the BPC will enter into a Transmission Service Agreement (TSA) with the Nodal Agency.</p>
59.	RFP	<p><b>Clause 1.6.2.1 (2):</b> To obtain approval for laying of overhead transmission lines under Section 68 of Electricity Act, from the Government at least twenty (20) days prior to Bid Deadline.</p>	<p>It is requested you to kindly provide present status of process initiated by BPC with regard to section 68 approval.</p>			<p>The approval u/s 68 of Electricity Act will be shared with the successful bidder.</p>
60.	RFP	<p><b>Clause 1.6.2.1 (4):</b> To initiate process of seeking forest clearance, if required.</p>	<p>It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.</p>			<p>BPC will complete its responsibilities as listed in the RFP documents.</p> <p>Please also refer</p>

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						Clause 1.6 & 2.5.7 of the RFP document.
61.	RFP	<p><b>Clause 1.6.2.2:</b></p> <p>The details and documents as may be obtained by the BPC/ project specific SPV in relation to the Project shall be handed over to the TSP on an as-is-where-is basis, so that</p> <p>it may take further actions to obtain Consents, Clearances and Permits</p>	<p>Please provide copy of all such document available with you from the State Government and/or Ministry of Power and/or kindly facilitate for State Support Agreement.</p>			<p>The support will be provided on case-to-case basis, within applicable laws and regulatory framework.</p>
62.	RFP	<p>Clause 1.10</p> <p>The Ministry of Power and the appropriate state government(s) shall provide their support to the TSP, on best endeavor basis, in enabling the TSP to develop the Project.</p>	<p>We request you to share all such documents or correspondence happened with MOP and State Government, this will help the TSP is taking further approvals for the project.</p>			<p>The support will be provided on case-to-case basis, within applicable laws and regulatory framework.</p>
63.	RFP	<p>Clause 1.12</p> <p>Once the Successful Bidder is selected, the details and documents as may be obtained by the BPC/ project specific SPV in relation to the</p>	<p>BPC is requested to provide the list of details &amp; documents to be handed over to the Successful Bidder.</p>			<p>At this stage list of details and documents cannot be provided. Such details will be shared only with the successful</p>

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		Project, shall be handed over to the Successful Bidder on as is where basis, so that it may take further actions to obtain all necessary Consents, Clearances and Permits and the TSP shall not be entitled for any extensions in the Scheduled COD of the Project except as provided for in the TSA.				bidder.  However, it is clarified that BPC will complete its responsibilities as listed in the RFP documents.
64.	RFP	<p>Clause 2.15.2</p> <p>Within ten (10) days of the issue of the Letter of Intent, the Selected Bidder shall:</p> <p>a) provide the Contract Performance Guarantee in favour of the Nodal Agency as per the provisions of Clause 2.12</p> <p>b) execute the Share Purchase Agreement and the Transmission Service Agreement</p> <p>acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of</p>	<p>BPC will appreciate that the completion of said activities by the Selected Bidder within ten (10) days after issuance of Lol is very stringent.</p> <p>Also, execution of SPV / signing of share purchase agreement is not within the control of TSP as it is dependent on certain regulatory approvals as well. We therefore request to consider at least 30 days' time for completion of these activities as well as provide a carve out for consequences if the delay is not on account of TSP.</p>			<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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		[Insert the name of the SPV] from REC Power Development and Consultancy Limited, who shall sell to the Selected Bidder, the equity shareholding of [Insert the name of the SPV], along with all its related assets and liabilities;				
65.	RFP	<p>Clause 2.15.2</p> <p>Stamp duties payable on purchase of one hundred percent (100%) of the equity shareholding of [Insert the name of the SPV], along with all its related assets and liabilities, shall also be borne by the Selected Bidder.</p>	<p>We request you to provide Applicable Stamp Duty Charges and Amount of Stamp Paper for the following agreements:</p> <ul style="list-style-type: none"> <li>i. Transmission Service Agreement</li> <li>ii. Share Purchase Agreement</li> <li>iii. Power of Attorney</li> <li>iv. Share Transfer Form</li> </ul> <p>It will be helpful if you can specify the name of 1st party and 2nd party for purchase of stamp papers.</p>			<p>Kindly refer Clause 2.5.7 of the RFP Document.</p> <p>Name of the 1st party and 2nd party would be as per respective document / agreement.</p>
66.	RFP	<p>Clause 2.15.4</p> <p>Within five (5) working days of the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to</p>		<p>Clause 2.15.4 may be reworded as below -</p> <p>Within ten (10) working days of</p>	<p>The condition to apply for grant of transmission license and make application for adoption of transmission</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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		<p>the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.</p>		<p>the issue of the acquisition of the SPV by the Successful Bidder, the TSP shall apply to the Commission for grant of Transmission License and make an application to the Commission for the adoption of Transmission Charges, as required under Section – 63 of The Electricity Act 2003.</p>	<p>charges within 5 days is onerous. Request to please change the relevant provisions as per the suggested text in RFP and TSA</p>	
67.	RFP	<p>Clause 2.15.5</p> <p>If the Selected Bidder / TSP fails or refuses to comply with any of its obligations under Clauses 2.15.2, 2.15.3 and 2.15.4, and provided that the other parties are willing to execute the Share Purchase Agreement and REC Power Development and Consultancy Limited is willing to sell the entire equity shareholding of [Insert the name of the SPV],</p>	<p>It is requested to kindly clarify as to what will be the consequences if the Selected Bidders fails to comply with any of Its obligations under 2.15.2, 2.15.3 and 2.15.3 due to reasons beyond the control of or not attributable to Selected Bidder / TSP.</p> <p>As the consequences for failure to comply the obligations under 2.15.2, 2.15.3 and 2.15.3 is the cancellation of Letter of Intent (LOI). We request you to</p>			<p>Provisions of RFP Document are amply clear in this regard and shall prevail.</p>

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		<p>along with all its related assets and liabilities, to the Selected Bidder, such failure or refusal on the part of the Selected Bidder shall constitute sufficient grounds for cancellation of the Letter of Intent. In such cases, the BPC / its authorized representative(s) shall be entitled to invoke the Bid Bond of the Selected Bidder.</p>	<p>reconsider the same as it would be unfair if LOI of selected bidder is cancelled due to reasons beyond its control.</p>			
68.	RFP	<p><b>Clause 2.4.3</b></p> <p>The amendment to the RFP shall be notified to all the Bidders through the electronic bidding platform and shall be binding on them.</p>	<p>We understand that the BPC will also continue to share amendments / corrigendum through emails as per the current practice.</p>			Yes
69.	RFP	<p><b>Clause 3.6.1</b></p> <p>However, if no bid is received during the e-reverse bidding stage then the Bidder with lowest quoted initial transmission charges ("Initial Offer") during e-bidding stage shall be declared as the Successful Bidder, .....</p>	<p>We request you to clarify, if two or more bidders quote the same initial offer which turns out to be prevailing lowest levelized tariff and no further discount is offered by any bidder during e-reverse auction.</p> <p>In such case what will be the modality BPC will follow for award of project.</p>			<p>As per provisions of RFP, bidders have to quote transmission charges upto 2 decimal points. Therefore, it is practically not possible to have same Initial Offer from two or more bidders.</p> <p>However, if such situation arises,</p>

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			BPC to confirm			appropriate decision will be taken by the competent authority.
70.	RFP	General	We request you to kindly accept the Board resolutions passed by Management Committees formed by the Board of Directors of Bidding Company and TEE / affiliate respectively and duly authorized by the Board of Directors for participation in various tenders issued by Govt. authorities in response to the RFP submission.		The board meeting of Bidding Company / TEE may not be scheduled till RFP submission.  Thus, we request you to kindly consider the board resolution passed by the management committee formed by the board of directors' w.r.t. Authorization from Bidding Company and TEE.	Provisions of RFP Document are amply clear in this regard.
71.	RFP	ANNEXURE 22 – FORMAT FOR AFFIDAVIT	We understand that the declaration and details with respect to conviction and investigation is to be provided for Affiliate / Parent company of the Bidding company only if such an Affiliate / Parent company is being used for meeting financial / technical qualification requirements.			The declaration and details with respect to Clause 2.1.9 of RFP is to be provided by the bidding company including Affiliate / Parent company of the Bidding company being used for meeting financial / technical qualification requirements as per

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						Annexure 22 of the RFP document.
72.	TSA	<p><b>Article 3.3.1</b></p> <p>If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months after the time specified therein, then on and from the expiry of such period and until the TSP has satisfied all the conditions specified in Article 3.1.3, the TSP shall, on a monthly basis, be liable to furnish to Central Transmission Utility of India Limited (being the Nodal Agency) additional Contract Performance Guarantee of Rs. Rs. 5.80 Crore (Rupees Five Crore Eighty Lakh Only) within two (2) Business Days of expiry of every such Month. Such additional Contract Performance Guarantee shall be provided to Central Transmission Utility of India Limited (being the Nodal Agency) in the manner provided in Article 3.1.1 and shall become part of the Contract Performance</p>	<p>In view of the rationale provided here, it is requested to amend the provision regarding refund of additional CPG on fulfillment of Conditions Subsequent.</p>	<p>Additional CPG shall be recovered for the non-fulfillment of Conditions Subsequent. However, this additional CPG is then forming part of CPG and is being retained by Nodal Agency.</p> <p>Considering the fact that additional CPG is consequential guarantee for performance related to condition subsequent, it is requested to review the provision and amend the provision to refund the additional CPG on fulfillment of Conditions Subsequent.</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>	

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		<p>Guarantee and all the provisions of this Agreement shall be construed accordingly. Central Transmission Utility of India Limited (being the Nodal Agency) shall be entitled to hold and / or invoke the Contract Performance Guarantee, including such additional Contract Performance Guarantee, in accordance with the provisions of this Agreement.</p>				
73.	TSA	<p><b>Clause 1.6.1.5</b></p> <p>The TSP shall seek approval under Section 164 of Electricity Act, from CEA after acquisition of [Insert the name of the SPV], The approval shall be granted by CEA generally within 30 days but in no case later than 45 days from the date of receipt of application (complete in all aspects).</p>	<p>It is requested you to kindly clarify whether process of obtaining authorization U/s 164 of Electricity Act, 2003 would be initiated by BPC.</p>	<p>It is suggested that BPC may initiate the process for obtaining approval U/s 164 based on the survey undertaken by BPC.</p>	<p>It may be appreciated that obtaining approval U/s 164 takes considerable time. In the interest of timely completion of project, it is suggested that BPC may initiate the process U/s 164.</p>	<p>BPC will complete its responsibilities as listed in the RFP documents.</p> <p>Please also refer Clause 1.6 &amp; 2.5.7 of the RFP document.</p>
74.	TSA		<p>TSP is required to obtain certain clearances/ approval such as authorization u/s 164, Forest clearance, Grant of Transmission License and approval for adoption</p>		<p>Clearances/ approval such as authorization u/s 164, Forest clearance, Grant of</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is</p>

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		<b>Article 4.4 Extension of Time</b>	of tariff etc. In case if there is any delay in these approvals beyond stipulated time, such delay shall be considered for extension of SCOD of the project and any consequential increase in cost shall be allowed through appropriate adjustment in the tariff.		Transmission License and approval for adoption of tariff are not within the control of TSP once it has been applied after fulfilling all the necessary compliance, any consequential delay is required to be allowed.	envisaged.
75.	TSA	<b>Article 5.1.2</b>  The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of the unsuitability of the Site or Transmission Line route(s).	TSP cannot be burdened with impact of unsuitability of the site or transmission line route due to reasons beyond control. Therefore, suitable revision may be carried out in clause 5.1.2.		There may be number of reasons for unsuitability of the site or transmission line route which are beyond control of the TSP.  For such instances, suitable extension of time and appropriate adjustment in tariff shall be provided.	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.
76.	TSA	<b>Article 5.6</b>  <b>Site regulations and Construction Documents</b>	Inspection of Construction drawings and other documents related to construction may be deleted from clause no. 5.6.		Construction drawings and few specific documents may be proprietary/confidential and is against commercial	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.

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		<p>The TSP shall abide by the Safety Rules and Procedures as mentioned in Schedule 3 of this Agreement</p> <p>The TSP shall retain at the Site and make available for inspection at all reasonable times copies of the Consents, Clearances and Permits, construction drawings and other documents related to construction.</p>			interest of the TSP.	
77.	TSA	<p><b>Article. 6.4.1</b></p> <p>Liquidated Damages for Delay in achieving COD of Project by TSP.</p>	<p>If the TSP fails to achieve COD for any Element of the Project or for the Project by SCOD, then the TSP is required to pay liquidated damages. It is noted that, Clause 6.4.1 of the TSA does not exclude delays caused due to a Force Majeure or Nodal Agency's default. This may well be a drafting oversight and may be clarified.</p> <p>The TSP should also not be liable to pay liquidated damages in the event the delay is not attributable to the TSP. Accordingly, it may be clarified that no damages will be payable in the event the delay is on account of Force Majeure or Nodal Agency's default.</p>			<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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78.	TSA	<p><b>Article 11.3 Force Majeure</b></p> <p>A ‘Force Majeure’ means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices:</p>		<p>Underlined text may be added under Article 11.3 :</p> <p>A ‘Force Majeure’ means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party or <b>makes performance of obligation commercially unviable for the Affected Party</b> in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>
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				Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices:		
79.	TSA & RFP	<p><b><u>Provisions in TSA</u></b></p> <p><i>(Provision related to non fulfilment of condition subsequent)</i></p> <p><b>3.3.6</b></p> <p>The Nodal agency, on the failure of the TSP to fulfil its obligations, if it considers that there are sufficient grounds for so doing, apart from invoking the Contract Performance Guarantee under para 3.3.3 may also initiate proceedings for blacklisting the TSP as per provisions of Article 13.2 of TSA.</p> <p><i>(Termination procedure for TSP event of default)</i></p>			<p>The blacklisting of TSP for a period of 5 years for default, failure to complete conditions subsequent &amp; annulment of award, and for indefinite period for error in online and physical submission is onerous and harsh on TSP.</p> <p>TSP's event of default covers a lot of activities, and if TSP fails to comply with even one activity, TSP is at risk of getting</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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		<p><b>13.2</b></p> <p>Further, the Nodal Agency may also initiate proceedings to blacklist the TSP &amp; its Affiliates from participation in any RFP issued by BPCs for a period of 5 years.</p> <p><b><u>Provisions in RFP</u></b></p> <p><i>(Non fulfilment of Obligations by TSP post issuance of Lol and post acquisition of SPV)</i></p> <p><b>2.15.8</b></p> <p>The annulment of the award, under Clause 2.15.5 or 2.15.6 of this RFP, shall be sufficient grounds for blacklisting the bidder, whose award has been annulled, for a period of five years or more, as decided by the National Committee on Transmission, provided that the blacklisting shall be done only after giving the bidder an opportunity for showing cause.</p>			<p>blacklisted.</p> <p>Further, TSA provides discretionary right to Nodal agency to decide whether TSP would be blacklisted.</p> <p>In case of discrepancy in submission, it is requested that BPC shall seek clarification from bidder and upon failure to provide clarification and complete investigation only, should construe such activity as fraudulent practice.</p> <p>Hence it is requested to include blacklisting</p>	
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		<p><i>(Discrepancy in online and physical submission of selected bidder)</i></p> <p><b>3.6.1</b></p> <p>In case, there is a discrepancy between the online submission and physical documents, the bid would be out rightly rejected and the bidder shall be construed to have engaged in the fraudulent practice as defined in Clause 2.19.3 with consequences as mentioned in Clause 2.19.2. Further, in such a case, the provisions of Clause 2.5.6 (j) shall apply.</p>			<p>only in extreme cases and provide definite guidelines on Nodal Agency’s right to blacklist bidders. Also in RFP, blacklisting for annulment of project award would be done by government, while in other cases it would done by Nodal Agency. It is requested that blacklisting rights shall only reside with government.</p>	
80.	TSA	<p><b>13.3 Procedure for Nodal Agency's non-fulfilment of Role</b></p> <p>a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2. the TSP may serve notice on the Nodal Agency, with a copy to CEA and the Lenders' Representative (a "TSP's</p>		<p><b>13.3 Procedure for Nodal Agency's non-fulfilment of Role</b></p> <p>a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2. the</p>	<p>The contract clauses as per TSA favors the Nodal Agency. All the termination rights are provided to Nodal Agency and the agreement does not provide the other party</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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		Preliminary Notice”), which notice shall specify in reasonable detail the circumstances giving rise to such non-fulfillment of role by the Nodal Agency.		TSP may serve <b><u>TERMINATION</u></b> notice on the Nodal Agency, with a copy to CEA and the Lenders' Representative (a "TSP's <b><u>Preliminary Termination</u></b> Notice").	(TSP) right to terminate in case of default of Nodal Agency.  In absence of termination right, TSP is at risk commercially, if Nodal agency fails to fulfill its assigned responsibilities, for example failure of Nodal Agency to pay the quoted transmission charges.  Also, the methodology for computation of compensation to TSP, in case of mutual agreement to terminate, should be defined upfront.	
81.		3.3.4 In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to		3.3.4 In case of inability of the TSP to fulfil the	In case of delay in SCOD due to FM event, the provision gives discretionary	This is as per the SBD and amendments thereof, issued by the Ministry of Power and

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	<b>TSA</b>	<p>any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders’ Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.</p> <p>4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article 11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event.</p>		<p>conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event.</p> <p><b><u>In case the Force Majeure Event continues even after a period of one hundred and eighty (180) days if deemed necessary, the Nodal Agency or TSP, upon mutual agreement may terminate the Agreement as per the provisions</u></b></p>	<p>right to Nodal Agency to terminate TSA after occurrence of FM event. There should be gestation period of at least 6 months after start of FM event. Post completion of 6 months, both parties may decide to terminate the contract on mutual agreement. In case of FM, there should not be any unilateral right to terminate. Also, the methodology for computation of compensation to TSP, in case of mutual agreement to terminate, should be defined upfront.</p>	<p>hence, no change is envisaged.</p>
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		<p><b>Alternatively, if deemed necessary, the Nodal Agency may terminate the Agreement as</b> per the provisions of Article 13.4 by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.</p> <p>13.4 Termination due to Force Majeure</p> <p>13.4.1 In case the Parties could not reach an agreement pursuant to Articles 3.3.4 and 4.4.2 of this Agreement and the Force Majeure Event or its effects continue to be present, the Nodal Agency shall have the right to cause termination of the Agreement. In case of such termination, the Contract Performance Guarantee shall be returned to the TSP as per the provisions of Article 6.5.1.</p>		<p>of Article 13.4 by giving a Termination Notice to <b>the other party,</b></p> <p>in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.</p> <p>4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled</p>		
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				<p>COD on account of any Force Majeure Event as per Article 11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event.</p> <p><u>In case the Force Majeure Event continues even after a period of one hundred and eighty (180) days if deemed necessary, the Nodal Agency or TSP, upon mutual agreement may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the</u></p>	
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				<p><b>other party</b>, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.</p>	
82.	TSA	<p>Clause 5.8</p> <p>"Remedial Measures:</p> <p>The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such</p>		<p>This is very stringent clause and provides for agreement termination at the subjective discretion of Nodal Agency. Request to modify the clause as:</p> <p>..... <b>If the shortfalls as intimated to the TSP are not</b></p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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		<p>remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA and/ or the Nodal Agency may carry out random inspections during the Project execution, as and when deemed necessary by it.</p> <p><b>If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement ."</b></p>			<p>remedied to the satisfaction of the CEA and/ or the Nodal Agency, it may refer the same to the Appropriate Commission for appropriate action.</p>	
83.	TSA	<p>13.7 Termination Payment</p> <p>13.7.1 If Agreement is terminated on account of Force Majeure Events, no requirement of any Element or</p>			<p>Guidelines on valuation of project assets conducted should be provided to ensure there is</p>	<p>Valuation of project assets shall be done as per the prevailing industry practices.</p> <p>Further, please refer</p>

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		Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.			no ambiguity.  Further if TSA is terminated during operating period of project, guidelines on valuation of assets in such event to be provided.	Clause 18.2 e) of TSA.
84.	TSA	<p>13.5 Termination or amendment due to non-requirement of any Element or Project during construction</p> <p>13.5.1 In case any Element or Project, which is under construction, is no longer required due to any reason whatsoever, the Nodal Agency may issue a notice to this effect to the TSP.</p> <p>13.5.2 Nodal agency may also issue notice to the TSP seeking their response to the proposed termination/ amendment (as the case may be) of the Agreement. The Nodal Agency shall issue copy of such notice to Lenders. In</p>			<p>Guidelines on amendment of TSA in case of non-requirement of any element during construction should be clearly specified, especially the treatment of Quoted Transmission Charges and capital cost of element no longer required.</p> <p>For example, if 50% construction</p>	<p>Valuation of project assets shall be done as per the prevailing industry practices.</p> <p>Further, please refer Clause 18.2 e) of TSA.</p>

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		<p>the notice, Nodal Agency shall also include an assessment of the physical progress made by TSP in the Element/ Project (as the case may be) that is no longer required.</p> <p>13.5.3 The TSP shall neither carry out further Investment nor carry out any work on the Element/ Project (as the case may be) that is no longer required after delivery of the notice.</p> <p>13.5.4 After taking into account the comments of the TSP, the Nodal Agency may terminate the Agreement or amend it if both Parties agree to the amendment.</p>			<p>of an element is completed and that element is not required, how would the TSP be compensated for the capital cost of the element.</p>	
85.	TSA	12. Change in Law	Inclusion of change in acquisition price in Change in Law		<p>As SPV acquisition price is part of capital cost of project, any change in Acquisition price after bidding would directly affect the bidder commercially and it is totally beyond the control of TSP. Hence, it is</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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					requested to kindly allow change in acquisition price under CIL event.	
86.	TSA	D)The TSP has agreed to make an application for a Transmission License to the Commission for setting up the Project on <b>build, own, operate and transfer basis.</b>		D)The TSP has agreed to make an application for a Transmission License to the Appropriate Commission for setting up the Project <b>on build, own, operate and maintain basis.</b>	As per revised TSA, asset to be transferred to Nodal agency post 35 years (BOOT). The assets created would be <b>Financial assets instead of Fixed assets.</b> Under IndAS accounting rules, <b>depreciation</b> of financial assets is <b>not allowed.</b>  Further, TSP would be at risk of authorities levying 18% GST upfront on construction revenue recognized on COD. <b>Higher taxation</b> would impact the project economics eventually leading	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.

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					<p>to higher tariff for the Consumers.</p> <p>Under BOOT model, <b>asset condition may degrade</b> towards end of concession period due to lack of incentive for developer to maintain the asset by incurring some capex.</p> <p>Hence it is requested to continue with the BOOM model.</p>	
87.	TSA	<p>5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 &amp; Schedule 2 of this Agreement, <b>beyond a period of 45 days</b> shall lead to a sequestration of 10% of the Contract Performance Guarantee.</p> <p>6.4.5 For avoidance of doubt,</p>		<p>5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 &amp; Schedule 2 of this Agreement, <b>beyond a period of 6 months (as per clause 13.1.b) unless extended by</b></p>	<p>Clause 13.1.b of TSA allows upto 6 months' delay in commissioning of element after SCOD.</p> <p>10% sequestration clause does not cover any delay due FM or CIL event. If in case all</p>	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>

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		it is clarified that amount payable by TSP under this Article is over and above the penalty payable by TSP under Article 5.5.6 of this Agreement.		<b>Nodal Agency due to FM/CIL as per provisions of this agreement, shall lead to a sequestration of 10% of the Contract Performance Guarantee.</b>	the elements of projects are declared as “critical elements”, TSP is liable for 10% CPG sequestration. It is requested to kindly extend period beyond which CPG sequestration shall occur to 6 months.  Further, TSP should not be made liable for LD payments on account of delay in project / element commissioning more than as identified under clauses 6.4.1 and 6.4.2	
88.	TSA	AA- Actual Availability ; MTC- Monthly transmission charges; Tmn = transmission charges for month "m" in contract year "n"  <i>For incentive</i>  <i>a. If 98% &lt; AA &lt; 98.5%;</i>		<i>Incentive = 0.02 x Annual Transmission Charges x (Actual Availability – Target Availability)</i>	The tariff for projects under TBCB has seen a reduction of 30%-50% as compared to RTM projects. The incentive for maintaining availability above	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.

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		<p><math>MTC = Tmn * 1;</math></p> <p><i>b. If <math>98.5\% &lt; AA &lt; 99.75\%</math> ;</i></p> <p><math>MTC = Tmn * (AA / 98.5 \%);</math></p> <p><i>c. If <math>AA &gt; 99.75\%</math>;</i></p> <p><math>MTC = Tmn * (99.75 \% / 98.5 \%);</math></p> <p><i>For Penalty</i></p> <p><i>d. If <math>95 \% &lt; AA &lt; 98 \%</math></i></p> <p><math>MTC = Tmn * (AA / 98 \%);</math></p> <p><i>e. If <math>AA &lt; 95 \%</math></i></p> <p><math>MTC = Tmn * (AA/98 \%) - 0.02 * (Tmn * (AA/98\%))</math></p>		<p>Target Availability: AC - 98% &amp; HVDC - 95% <i>Incentive = 0.02 x Annual Transmission Charges x (Actual Annual Availability - Target Availability)</i></p> <p>Target Availability: AC - 98% &amp; HVDC - 95%</p>	<p>target availability aids in increasing reliability of the transmission system. As the incentive is reduced as per revised provisions, developers may increase the Quoted tariffs to compensate which may result in increased cost of electricity to end consumer. Further there is no incentive for maintaining actual availability between 98% and 98.5%.</p> <p>Hence it is requested to continue with existing provisions for penalty and incentive calculation.</p>	
89.	TSA	3.3.4 Provided, that due to the provisions of Article 3.3.4, any increase in the time period for completion of conditions		3.3.4 Provided, that due to the provisions of Article 3.3.4, any increase in the	In event of FM/CIL event, provisions under revised TSA do not provide for	This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		<p>subsequent mentioned under Article 3.1 .3, shall lead to an equal increase in the time period for the Scheduled COD. <b>If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.</b></p>		<p>time period for completion of conditions subsequent mentioned under Article 3.1 .3, shall lead to an equal increase in the time period for the Scheduled COD. <b>The TSP will be allowed to recover the interest cost during construction corresponding for the period of FM/CIL event by adjustment in the Transmission Charges in accordance with Schedule 9.</b></p>	<p>any adjustment in transmission charges for a period of 180 days. TSP is allowed to recover interest cost during construction for period exceeding 180 days.</p> <p>As large portion (70%) of project cost is funded through debt, repayment of which does not start till COD, any delay in SCOD leads to higher interest built up. This severely affects the project economics of developer. Hence it is requested to allow for recovery of interest cost during construction for entire period of FM/CIL event.</p>	<p>envisaged.</p>
90.	TSA	18. 1 The Nodal Agency shall appoint an agency/ company as Independent Engineer		-	It is requested to not appoint an external agency	This is as per the SBD and amendments thereof, issued by the

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		<p>(IE).....</p> <p>Responsibilities of IE include progress monitoring, ensuring quality, determine costs of works/services, determine valuation of project assets, assist parties in dispute resolution.</p>		<p>(Independent Engineer-IE) and the Nodal Agency to execute the functions such as progress monitoring, quality assurance, determination of works/services, valuation of projects assets.</p> <p>Any delay in appointment of IE would delay the project execution.</p> <p>Further addition of an external agency would also be an additional expense which would eventually result in tariff increase.</p>	<p>Ministry of Power and hence, no change is envisaged.</p>
<p><b>91.</b></p>		<p>3.1 Satisfaction of Conditions Subsequent by the TSP</p> <p>c. Execute this Agreement;</p>		<p>Since the execution of TSA will require coordination with the CTU, it is requested that the TSA be executed before project</p>	<p>As per revised TBCB Guidelines and SBDs issued by MOP, Gol, TSP on the date of acquisition of SPV from the BPC will enter into a Transmission Service</p>

# 430

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

					acquisition by the project SPV in the interest of saving time. This will also facilitate early completion of the project critical activities	Agreement (TSA) with the Nodal Agency.
92.		<p>3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities within six (6) months from the Effective Date .....</p> <p>To obtain the Transmission License for the Project from the Commission;</p>	<p>While the TSP will apply to the respective commission for grant of license, time required for the issuance is beyond the control of TSP once the application is made. We request to modify the clause suitably to incorporate the above.</p>			<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power and hence, no change is envisaged.</p>
93.	SPA	<p>Clause 3.5</p> <p>The Selected Bidder hereby acknowledges and agrees that after the date of acquisition of one hundred percent (100%) of the Shares of the Company by the Selected Bidder as per Clause 3.3, (a) the authority of the BPC in respect of the Bid Process shall forthwith cease and any actions to be taken thereafter regarding the Bid</p>	<p>We understand that acquisition price towards acquisition of one hundred percent (100%) of the equity shareholding of the Company, communicated to bidder would include all liabilities pertaining to SPV prior to closing date. Please confirm</p>			Yes

# 431

**Clarifications dated 02.05.2024 on the RFP Documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

		Process will be undertaken by the Central Transmission Utility of India Limited themselves, (b) all rights and obligations of the BPC shall cease forthwith, (c) all other rights and obligations of the Company shall be of the TSP and (d) any decisions taken by the BPC on behalf of the Company prior to the date of acquisition, shall continue to be binding on the Company and/or Central Transmission Utility of India Limited as the case may be.				
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**432****Annexure P-16****ERES-XXXIX POWER TRANSMISSION LIMITED**

(A wholly owned subsidiary of REC Power Development and Consultancy Limited)  
Registered Office: Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003  
Corporate Office: D-Block, REC World Headquarter,  
Plot No. I-4, Sector-29, Gurugram, Haryana-122001  
(U42202DL2024GOI428871)

Ref No.: ERES-XXXIX PTL/ISTS/approval/Section-68/2024-25/ 445

Date: 02.05.2024

The Secretary,  
Central Electricity Authority,  
Sewa Bhawan, R. K. Puram,  
New Delhi - 110 066.

Kind Attention: Sh. Rakesh Kumar

Sub: Approval for laying of overhead transmission line under Section-68 of the Electricity Act, 2003 for "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" to be implemented through tariff based competitive bidding process.

Dear Sir,

As you are aware that, Ministry of Power, Government of India vide its notification no. 943 [F. No. 15/3/2018-Trans-Part(1)] on dated 01.03.2024 (Copy enclosed), has appointed REC Power Development and Consultancy Limited (RECPDCL), holding company of ERES-XXXIX POWER TRANSMISSION LIMITED to establish transmission system for "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through tariff based competitive bidding process. The scope of work covered under the project is as follows:

Sl. No.	Scope of the Transmission Scheme
1	<p>Establishment of new 765/400kV, 2x1500MVA GIS substation at Gopalpur in Odisha.</p> <ul style="list-style-type: none"><li>• 765/400 kV, 1500MVA ICTs: 2 Nos. (7x500 MVA single phase units including one spare)</li><li>• 765 kV ICT bays: 2 Nos.</li><li>• 400 kV ICT bays: 2 Nos.</li><li>• 765 kV, 330 MVAr Bus reactor: 2 Nos. (7x110 MVAr single phase units including one spare unit for both bus and line reactors)</li><li>• 765 kV Bus reactor bays: 2 Nos.</li><li>• 420 kV, 125 MVAr Bus reactor: 2 Nos.</li><li>• 400 kV Bus reactor bays: 2 Nos.</li><li>• 765 kV line bays: 2 Nos. [for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAr switchable line reactor at Gopalpur end in both circuits]</li><li>• 400 kV line bays: 2 Nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</li><li>• 765 kV, 330 MVAr (3x110 MVAr single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) [at Gopalpur end in both circuits of Angul (POWERGRID) - Gopalpur 765 kV D/c line] 2 Nos.</li></ul>

Sl. No.	Scope of the Transmission Scheme
	<p><b>Additional space for future expansion</b></p> <ul style="list-style-type: none"> <li>• 765/400kV, 4x1500MVA ICTs (12x500MVA single phase units) along with associated ICT bays at both Voltage levels</li> <li>• 400/220kV, 4x500MVA ICTs along with associated ICT bays at both voltage levels</li> <li>• 765kV, 2x330MVA (6x110MVA single phase units) bus reactor along with associated bays</li> <li>• 420kV, 2x125MVA bus reactor along with associated bays</li> <li>• 8 nos. of 765kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 10 nos. of 400kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 12 nos. of 220kV line bays for future lines</li> <li>• 765kV bus sectionaliser bay: 1 set</li> <li>• 400kV bus sectionaliser bay: 1 set</li> <li>• 220kV bus sectionaliser bay :1 set</li> <li>• 220kV bus coupler bay: 2 no.</li> </ul>
2	Angul – Gopalpur 765 kV D/c line
3	<p>Extension at 765kV level at Angul (POWERGRID) S/s including bus extension in GIS</p> <ul style="list-style-type: none"> <li>• 765 kV GIS/Hybrid line bays (along with space for future switchable line reactor). 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765kV D/c line] including bus extension in GIS of about 3000 m</li> </ul>
4	Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line <sup>@</sup>
5	<p>Extension at 400kV level at #Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>• 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line] + #2 nos. for diameter completion</li> </ul>
<p><b>Note:</b></p> <ol style="list-style-type: none"> <li>i. <sup>@</sup>Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur. 400/220kV (Intra-state) substations at Gopalpur.</li> <li>ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos GIS bays of these diameters shall be identified in future.</li> <li>iii. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.</li> <li>iv. POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.</li> </ol>	

# 434

Accordingly, as per provisions of Tariff Based Competitive Bidding guidelines notified by Ministry of Power, Gol, RECPDCL has initiated the single stage Request for Proposal (RFP) process on 16.03.2024 for selection of Bidder as Transmission Service Provider for above Transmission System. Further, as per provisions of guidelines, a project specific SPV under the Companies Act 2013 by the name "ERES-XXXIX POWER TRANSMISSION LIMITED" has been incorporated (Copy of the incorporation certificate is attached) to initiate the activities for development of the above project. The said company shall be acquired by the successful Bidder as per terms and condition as may be prescribed in the Request for Proposal Document.

As per clause 1.6.2.1 of the Section-1 of single stage Request for Proposal (RFP) document, the scope of Bid Process Coordinator inter-alia includes obtaining approval for laying of overhead transmission lines under Section-68 of Electricity Act, 2003 from the Government.

It is therefore requested that approval for laying of overhead transmission line under Section-68 of Electricity Act, 2003 may kindly be accorded for the above Transmission System in favour of the SPV i.e., "ERES-XXXIX POWER TRANSMISSION LIMITED".

The certified true copy of the Minutes of the Meeting of the Board of Directors of ERES-XXXIX POWER TRANSMISSION LIMITED authorizing any director to file any application is also attached herewith.

Thanking you,

Yours faithfully,



(Kuntala Venu Gopal)  
Chairman

Encl.: As above

# 435

# Annexure P-17

No. 25-17/49/2024-PG

Government of India

Ministry of Power

\*\*\*

Shram Shakti Bhawan, Rafi Marg  
New Delhi -01, Dated 17<sup>th</sup> May, 2024

To,

Shri Kuntala Venu Gopal,  
Director, ERES-XXXIX POWER TRANSMISSION LIMITED,  
Core-4, SCOPE Complex, 7, Lodhi Road,  
New Delhi-110003  
Email: kvg@recl.in

**Subject: Prior approval of the Government of India under Section 68 (1) of the Electricity Act, 2003, for installation of overhead transmission lines under the transmission Scheme - "Eastern Region Expansion Scheme- XXXIX (ERES-XXXIX)" – regarding.**

Sir,

I am directed to refer to M/s REC Power Development and Consultancy Limited (RECPDCL)'s online application on NSWS portal dated 05.05.2024, seeking prior approval of Government of India under Section 68 (1) of the Electricity Act 2003, in favour of M/s ERES-XXXIX Power Transmission Limited for installation of the following overhead transmission lines under the transmission Scheme - "Eastern Region Expansion Scheme- XXXIX (ERES-XXXIX)":

i. Angul – Gopalpur 765 kV D/c line

ii. Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line

2. National Committee on Transmission (NCT) in its 16th meeting held on 30.11.2023 had approved the transmission scheme "Eastern Region Expansion Scheme- XXXIX" as Inter -State Transmission System to be implemented through TBCB mode.

3. REC Power Development and Consultancy Limited (RECPDCL) had been appointed as Bid Process Coordinator for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish the transmission scheme " Eastern Region Expansion Scheme- XXXIX (ERES-XXXIX)" under Tariff Based Competitive Bidding route vide Gazette notification No. 943 dated 28.02.2024 of Ministry of Power. RECPDCL, the Bid Process Coordinator, has incorporated an SPV, 'ERES-XXXIX POWER TRANSMISSION LIMITED, for the implementation of the scheme.

4. Based on the recommendation of Central Electricity Authority (CEA); Ministry of Power, Government of India conveys the prior approval under Section 68 (1) of the Electricity Act, 2003, to the SPV, M/s ERES-XXXIX Power Transmission Limited for implementation of following overhead transmission lines:

Contd/...

- i. Angul – Gopalpur 765 kV D/c line
  - ii. Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line
5. The approval would be subject to compliance of:
- (i) The relevant provisions of the Electricity Act 2003, as amended from time to time and the rules and regulations made there under, and
  - (ii) CEA (Measures relating to Safety and Electric Supply) Regulations 2023, and any subsequent amendments made thereto.
6. The approval would also be subject to the following conditions:
- (i) The implementing agency will commence construction of the project within three years of grant of approval unless this term is extended by Ministry of Power.
  - (ii) Ministry of Power may withdraw the approval before the expiry of the period of three years after giving a one-month notice.
  - (iii) The implementing agencies shall abide by the provisions of Works of Licensee Rules, 2006 notified by the Govt. of India, Ministry of Power in the Gazette of India, extra-ordinary Part-II, Section 3(i) dated 18-04-2006 (vide GSR 217 (E) dated 18-04-2006).

Yours faithfully,



(M.V.N. Vara Prasad)

Under Secretary to the Government of India  
Tele: 011-23730264

Copy to:

The Chairperson,  
Central Electricity Authority,  
Sewa Bhawan, R.K. Puram, New Delhi 110066.

\*\*\*

Ref No: RECPDCL/TBCB/ERES-XXXIX/2024-25/ 447

Date: 03.05.2024

**Shri Rajat Uprety, BD Manager - International  
M/s The Tata Power Company Limited**

B-12/13, 2nd Floor, Shatabdi Bhavan,  
Sector-04, Noida, UP- 201301, India.

**Subject: Selection of Bidder as Transmission Service Provider (TSP) to establish "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" to be implemented through Tariff Based Competitive Bidding process – Issuance of Tentative Acquisition Price regarding.**

Dear Sir,

This has reference to the RFP dated 16.03.2024 for selection of Transmission Service Provider to establish "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" (hereinafter referred to as "the Project") through tariff based competitive bidding process.

As per the requirement of Clause 1.5 of RFP, we would like to intimate you that the Tentative Acquisition Price payable by the Selected Bidder to the BPC for the acquisition of one hundred percent (100%) of the equity shareholding of ERES-XXXIX POWER TRANSMISSION LIMITED, along with all its related assets and liabilities is **Rs. 1827.55 Lakhs (Rupees Eighteen Crore Twenty-seven Lakh Fifty-Five Thousand only)**. This Acquisition Price shall be subject to adjustment based on the audited accounts of ERES-XXXIX POWER TRANSMISSION LIMITED as on the date of execution of the Share Purchase Agreement.

As per clause no. 3.5 of revised guidelines issued vide Gazette Notification dated 10.08.2021 for BPC (Bid Process Coordinator), price variation between Tentative Acquisition Price and the amount to be paid finally at the end of bidding process by selected bidder should not be more than 5%.

It is further to inform that "Change in Law" would not be applicable on account of Tentative Acquisition Price variation within above mentioned limit.

It may please be noted that as on date, there are no contractual obligations undertaken by BPC on behalf of ERES-XXXIX POWER TRANSMISSION LIMITED which are to be fulfilled by the TSP.

All other terms and conditions of the RFP remain the same.

Thanking you,

Yours faithfully,

  
(Satyabhan Sahoo) 03/05/24  
**General Manager (Tech)**

## Annexure P-19 (Colly)



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केंद्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन-I प्रभाग

Power System Planning &amp; Appraisal - I Division

सेवा में / To,

Chief General Manager (Tech),  
RECPDCL,  
D-Block, REC HQ, Plot No. I-4, Sector-29,  
Gurugram (Haryana) - 122001

विषय /Subject: Constitution of the Bid Evaluation Committees (BECs) for the  
transmission scheme – being implemented through TBCB route - reg.

संदर्भ / References:

- (i) Gazette of India (Extraordinary) dated 01.03.2024
- (ii) M/s RECPDCL letter dated 20.03.2024

महोदय/ Sir,

Ministry of Power vide Gazette (No. 943) dated 01.03.2024 has notified the transmission scheme "Eastern Region Expansion Scheme- XXXIX (ERES-XXXIX)" for implementation through Tariff Based Competitive Bidding (TBCB) with M/s RECPDCL as the Bid Process Coordinator (BPC).

Subsequently, M/s RECPDCL vide its letter under reference (ii), requested CEA to constitute the Bid Evaluation Committee (BEC) for the above mentioned scheme. Accordingly, nominations were sought from ERPC for constitution of BEC.

Based on the nominations received from ERPC vide mail dated 9.05.2024, the Bid Evaluation Committee (BEC) for evaluation of bids of the above mentioned transmission scheme is hereby constituted and is enclosed as Annexure. It may be mentioned that the Bid Evaluation Committee for the above mentioned transmission scheme has been constituted in

line with Clause 9.8 of the Tariff based Competitive Bidding Guidelines for Transmission Service issued on 10.08.2021.

संलग्न / Encl. - उपरोक्त / as above

भवदीय / Yours faithfully,



10.05.2024

(ईशान शरण / Ishan Sharan)

मुख्य अभियन्ता / Chief Engineer

Annexure

**Bid Evaluation Committee (BEC) for “Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)”:**

S. No.	Name	Designation
1.	Sh. Rajesh Kumar Singh, General Manager, SBI Commercial Clients Group Regional Office-II, New Delhi	Chairman
2.	Sh. Shyam Kejriwal, Superintending Engineer, ERPC	Member
3.	Sh. Ranjan Kumar Panigrahi, General Manager (South), OPTCL	Member
4.	Chief Engineer (I/C), PSPA-II Division, CEA [Sh. B. S. Bairwa]	Member
5.	Chief Engineer, PSETD Division, CEA [Sh. Chandra Prakash]	Member
6.	Chairman of SPV constituted by RECPDCL	Convener - Member

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**Nomination of members for constitution of Bid Evaluation Committee (BEC) for Transmission Scheme being implemented through Tariff based Competitive Bidding (TBCB) Process-regarding**

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PSPA I Division &lt;cea-pspa1@gov.in&gt;

Thu, Sep 5, 2024 at 5:47 PM

To: tbc@repcdcl.in, satyabhan sahuo &lt;satyabhan.sahoo@repcdcl.in&gt;, anilkperala@repcdcl.in

Cc: Ishan Sharan &lt;i.sharan@nic.in&gt;, Nitin Deswal &lt;nitindeswal@nic.in&gt;, Komal Dupare &lt;komal.dupare@gov.in&gt;

Sir,

With reference to the trailing mail, it is to mention that there is no change in the members of BEC for the transmission scheme "Transmission System for Evacuation of Power from Shongtong Karcham HEP (450 MW) and Tidong HEP (150 MW).

Further, with respect to "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)", CEA letter dated 08.07.2024 regarding nomination of Sh. Bhanwar Singh Meena, Director, CEA as member of Bid Evaluation Committee (BEC), in place of Sh. Chandra Prakash, Chief Engineer, CEA, for all the under-bidding ISTS schemes being implemented through Tariff Based Competitive Bidding (TBCB) route is enclosed herewith.

Regards,

O/o Chief Engineer,  
Power System Planning & Appraisal - I (PSPA-I) Division,  
Central Electricity Authority  
Ministry of Power  
Govt. of India

---

**From:** tbc@repcdcl.in**To:** "Ishan Sharan" <i.sharan@nic.in>**Cc:** "Member Power System" <memberspcea@nic.in>, "Nitin Deswal" <nitindeswal@nic.in>, "Komal Dupare" <komal.dupare@gov.in>, "satyabhan sahuo" <satyabhan.sahoo@repcdcl.in>, anilkperala@repcdcl.in, "ritam biswas" <ritam.biswas@repcdcl.in>, "PSPA I Division" <cea-pspa1@gov.in>**Sent:** Wednesday, September 4, 2024 6:30:58 PM**Subject:** Nomination of members for constitution of Bid Evaluation Committee (BEC) for Transmission Scheme being implemented through Tariff based Competitive Bidding (TBCB) Process-regarding

[Quoted text hidden]



::DISCLAIMER::

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# 442

Regards,

O/o Chief Engineer,  
Power System Planning & Appraisal - I (PSPA-I) Division,  
Central Electricity Authority  
Ministry of Power  
Govt. of India



**Nomination of Sh. Bhanwar Singh Meena\_Member of BEC (1).pdf**

140K

Amendment – III dated 18.05.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.

Sl. No.	Clause No.	Existing Provisions	New / Revised Provisions																																				
1.	2.7.1 of RFP	The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1100 hours (IST) on <b>20.05.2024</b> . In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.	The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1100 hours (IST) on <b>30.05.2024</b> . In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.																																				
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Sl. No.	Clause No.	Existing Provisions	New / Revised Provisions
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**Amendment – IV dated 29.05.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

Sl. No.	Clause No.	Existing Provisions	New / Revised Provisions																																				
1.	2.7.1 of RFP	The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1100 hours (IST) on <b>30.05.2024</b> . In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.	The Bidders should submit the Bids online through the electronic bidding platform before the Bid Deadline i.e., on or before 1100 hours (IST) on <b>13.06.2024</b> . In addition to the online submission, the Bidder with lowest Final Offer will be required to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 before issuance of Lol.																																				
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**Amendment – V dated 12.06.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

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Sl. No.	Clause No.	Existing Provisions	New / Revised Provisions
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**Amendment – VI dated 03.07.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

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**Amendment – VII dated 18.07.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX” through tariff based competitive bidding process.**

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**Amendment-VIII dated 27.07.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

SI. No.	Clause No.	Existing Provisions			New / Revised Provisions																						
1.	Scope of the Transmission Scheme RFP & TSA	<b>SI. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Scheduled COD in months from Effective Date</b>	<b>SI. No.</b>	<b>Scope of the Transmission Scheme</b>	<b>Scheduled COD in months from Effective Date</b>																				
		1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha .....	<u>30.06.2026</u>	1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha .....	<u>31.12.2026</u>																				
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		3.	.....		3.	.....																					
		4.	.....		4.	.....																					
		5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s .....		5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s .....																					
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2.	Clause 2.6 of RFP	<b>2.6 Project Schedule</b>  <b>2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">S. No.</th> <th style="width: 20%;">Name of the Transmission Element</th> <th style="width: 10%;">Scheduled COD</th> <th style="width: 20%;">Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project</th> <th style="width: 45%;">Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Establishment of new 765/400 kV, 2x1500</td> <td style="text-align: center;"><u>30-06-2026</u></td> <td style="text-align: center;"><u>29.50%</u></td> <td></td> </tr> </tbody> </table>			S. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element	1.	Establishment of new 765/400 kV, 2x1500	<u>30-06-2026</u>	<u>29.50%</u>		<b>2.6 Project Schedule</b>  <b>2.6.1. All Elements of the Project are required to be commissioned progressively as per the schedule given in the following table;</b> <table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th style="width: 5%;">S. No.</th> <th style="width: 20%;">Name of the Transmission Element</th> <th style="width: 10%;">Scheduled COD</th> <th style="width: 20%;">Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project</th> <th style="width: 45%;">Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Establishment of new 765/ 400 kV, 2x1500</td> <td style="text-align: center;"><u>31.12.2026</u></td> <td style="text-align: center;"><u>29.98%</u></td> <td></td> </tr> </tbody> </table>			S. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element	1.	Establishment of new 765/ 400 kV, 2x1500	<u>31.12.2026</u>	<u>29.98%</u>	
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**Amendment-VIII dated 27.07.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

SI. No.	Clause No.	Existing Provisions			New / Revised Provisions			
		MVA GIS substation at Gopalpur in Odisha			MVA GIS substation at Gopalpur in Odisha			
	2.	Angul (Powergrid) – Gopalpur 765 kV D/c line <b>along with 765 kV, 1x330 MVAR switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits</b>	<b><u>57.31%</u></b>	All elements at SI. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other	2.	Angul (Powergrid) – Gopalpur 765 kV D/C line	<b><u>61.95%</u></b>	All elements at SI. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
	3.	Gopalpur – Gopalpur (OPTCL) 400 kV D/C (Quad) line@	<b><u>7.66%</u></b>		3.	Gopalpur – Gopalpur (OPTCL) 400 kV D/C (Quad) line@	<b><u>3.72%</u></b>	
	4.	Extension at 765 kV level at Angul (Powergrid) S/s including bus extension in GIS	<b><u>3.11%</u></b>		4.	Extension at 765 kV level at Angul (Powergrid) S/s including bus extension in GIS	<b><u>1.93%</u></b>	
	5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s	2.42%		5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s	2.42%	
		@ .....			@ .....			
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**Amendment-VIII dated 27.07.2024 on the Request for Proposal Document and Transmission Service Agreement issued for selection of bidder as Transmission Service Provider to establish “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)” through tariff based competitive bidding process.**

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			<b>(with NGR bypass arrangement) at Gopalpur end in both circuits</b>			commissioning of each other					commissioning of each other.
		3.	Gopalpur – Gopalpur (OPTCL) 400 kV D/C (Quad) line@		<b><u>7.66%</u></b>					<b><u>1.93%</u></b>	
		4.	Extension at 765 kV level at Angul (Powergrid) S/s including bus extension in GIS		<b><u>3.11%</u></b>					2.42%	
		5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s		2.42%						
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4.	Schedule: 2 of TSA	S. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element	S. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
		1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at	<b><u>30-06-2026</u></b>	<b><u>29.50%</u></b>		1.	Establishment of new 765/ 400 kV, 2x1500 MVA GIS substation at	<b><u>31.12.2026</u></b>	<b><u>29.98%</u></b>	

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Sl. No.	Clause No.	Existing Provisions			New / Revised Provisions			
		Gopalpur in Odisha				Gopalpur in Odisha		
		2. Angul (Powergrid) – Gopalpur 765 kV D/c line <b>along with 765 kV, 1x330 MVAr switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits</b>	<b>57.31%</b>	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other	2. Angul (Powergrid) – Gopalpur 765 kV D/C line	<b>61.95%</b>	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.	
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		4. Extension at 765 kV level at Angul (Powergrid) S/s including bus extension in GIS	<b>3.11%</b>		4. Extension at 765 kV level at Angul (Powergrid) S/s including bus extension in GIS	<b>1.93%</b>		
		5. Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s	2.42%		5. Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s	2.42%		
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5.	Schedule: 5 of TSA	1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha	<b>30-06-2026</b>	<b><u>29.50%</u></b>	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other	1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha	<b><u>29.98%</u></b>	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
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Sl. No.	Clause No.	Existing Provisions	New / Revised Provisions
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1.	Scope of the Transmission Scheme RFP & TSA	SI. No.	Scope of the Transmission Scheme		Scheduled COD in months from Effective Date	SI. No.	Scope of the Transmission Scheme		Scheduled COD in months from Effective Date		
		1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha .....		<b><u>31.12.2026</u></b>	1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha .....		<b><u>31.12.2027</u></b>		
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		S. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element	S. No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element

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3.	2.13.1 of RFP	..... Opening of Envelope (Technical Bid): 1530 hours (IST) on <b>20.09.2024</b>  .....  Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1530 hours (IST) on <b>03.10.2024</b> in the office of CEA.	..... Opening of Envelope (Technical Bid): 1530 hours (IST) on <b>24.09.2024</b>  .....  Opening of Initial Offer: Initial Offer shall be opened by the Bid Opening Committee in presence of the Bid Evaluation Committee at 1530 hours (IST) on <b>07.10.2024</b> in the office of CEA.																																				

## Annexure P-21 (Colly)

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
1.	RFP	General	Please let us know the status of Regulatory Approvals for the project.		SPV Acquisition is linked to regulatory approval and it is very important to get the clearance before RFP Submission as this will impact the initiation of projects.	It is a system expansion scheme approved for implementation after due stakeholder consultation.
2.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-	<p><b>Clause 1.2</b> Scheduled COD in months from effective date and Scope of transmission scheme</p> <p>&amp;</p> <p><b>Clause 2.6</b> Project Schedule - <b>Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project</b></p>	<p>a) As per the information available in public domain, H'ble Chief Secy., Govt. of Odisha, reviewed the progress of various critical transmission projects of Odisha Power Transportation Corporation Limited (OPTCL) on 24 August 2023. As per the relevant source, the forest clearance issues of following projects were discussed in detail in the meeting:</p> <p>1. 220/33 kV Baliguda grid sub-station along with 220kV Kesinga -</p>	<p><b>36 months from SPV transfer</b></p> <p><b>And</b></p> <p><b>Amendment in clause 2.7 bid deadline to at least 30.06.2024</b></p>	<p>Various communications available in public domain, as well as cited OERC orders highlight that obtaining forest clearance for transmission projects in Odisha is a time consuming process, which also have an impact on the project costs.</p> <p>The sequence of activities for projects requiring both forest clearance and SCNBWL approval further imply that</p>	Completion schedule of Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX) Transmission Scheme is 30-06-2026.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	XXXIX)		<p>Baliguda line,            2. 132 kV Boudh - Phulbani DC line,            3. 132 kV Boudh - Kiakata DC line,            4. LILO line to R. Udayagiri Grid from Digapahandi - Mohana line,            5. 220 kV Keonjhar - Turumunga DC line.</p> <p>On the basis of OERC orders dated <b>30.07.2016</b> and <b>03.11.2021</b> with respect to Case No. <b>05/2016</b> and <b>63/2020</b> respectively, it can be deduced that owing to forest clearance issues, all of the projects listed above have faced commissioning delays of more than 4 years, with some projects being delayed for more than 6 years. Additionally, these</p>		<p>any delay in obtaining forest clearance would subsequently delay the SCNBWL approval process, resulting in a significant impact to the project commissioning timeline.</p> <p>With reference to the minutes of 18<sup>th</sup> and 26<sup>th</sup> CMETS-ER, a minimum of 24 months have to be provided for implementation of ERES-XXXIX ISTS scheme.</p> <p>However, as per the <b>Draft Guidelines on Assessment of Timeframe for Execution of Transmission System</b> issued along with minutes</p>	

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			<p>projects have also been dealing with <b>cost overruns to about 25% of their estimated projects cost at the time of project approval.</b></p> <p>Further, as per Annexure-I (List of Transmission Projects Completed) attached to the OERC order dated <b>03.11.2021</b> with respect to Case No. <b>63/2020</b>, it can be observed that several projects have faced a time overrun of at least 10 months owing to forest related issues.</p> <p>b) Additionally, we also highlight the fact that a significant part of the transmission line from Angul to Gopalpur traverses through a lot of animal reserves and corridors, notably the Mahanadi Elephant reserve and ESZ of</p>		<p>of 15<sup>th</sup> NCT dated 25.08.2023, CEA has suggested that <b>necessary time extension can be provided on case to case basis if constraints such as large river crossing, GIB issues, wildlife areas etc. are envisaged as part of project execution.</b></p> <p>Hence, with respect to the legacy issues and critical project constraints highlighted here, our rationale for increasing the project SCOD due date is justified and submitted for your kind consideration.</p>	

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			<p>Satkoshia tiger reserve.</p> <p>As per the <b>letter No. F.No.WL-6/14/2023 WL dated 18<sup>th</sup> March 2024</b>, it was decided in the 77<sup>th</sup> meeting of the Standing Committee of National Board for Wild Life (SCNBWL) <b>that all proposals requiring recommendations/approvals of the SCNBWL and forest clearance under Van (Sanrakshan Evam Samvardhan) Adhinyam, 1980 shall be placed for consideration on the SCNBWL, only after receipt of forest clearance.</b></p> <p>It implies that <b>obtaining forest clearance and wildlife approval cannot be done concurrently</b>, which is</p>			

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			<p>also bound to have a severe impact on the project execution and subsequently on the commissioning timeline.</p> <p>c) As per Clause 2.6, <b>~10% of the Quoted transmission charges shall be recoverable once the elements pertaining to the Gopalpur (OPTCL) GIS s/s are commissioned.</b></p> <p>It has been stated in the RFP that Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. Although as per the minutes of 26<sup>th</sup> CMETS-ER, the completion schedule of the scheme is stated as March 2026, yet the on-site due diligence depict <b>that work is yet</b></p>			

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			<p>to begin at the proposed OPTCL location.</p> <p>Thus, there is a considerable probability that the Gopalpur (OPTCL) GIS s/s may get delayed owing to aforementioned Forest Clearance and Wildlife approval issues, and such delay may also impact the SCOD timeline of ERES-XXXIX considerably.</p> <p>Thus, basis the reasons (a), (b) and (c) stated above, we request you to <b>kindly consider extending the current project SCOD deadline of by at least 36 months from SPV transfer.</b></p>			
3.	RFP for Selection of Bidder as Transmission Service Provider for	Annexure C (Specific Technical Requirements for Transmission Lines)	As per CEA Regulation 2022 (Technical Standards for Construction of Electrical Plants and Electric Lines) reliability level for tower design of		Clarification required for better understanding of scope and cost estimation.	Refer Table -17 (page-177) of CEA Technical Standards for Construction of Electrical Plants and Electric Lines

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		400 kV is 1 whereas the same mentioned in CEA 2021 Task Force Report is 2. BPC to confirm the applicability of Reliability Level for 400 kV lines.			Regulations, 2022. Further, as per Table-17 of CEA Technical Standards for Construction of Electrical Plants and Electric Lines Regulations, 2022, for Transmission lines at 66 kV to 400 kV with more than 2 circuits; 400 kV Transmission lines with more than two conductors per phases; above 400 kV transmission lines, reliability level shall be two (2) corresponding to 150 years return period.
4.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service	Annexure C (Specific Technical Requirements for Transmission Lines)	As per RFP, Gopalpur is in coastal area and within 60km from coastline, Gopalpur (ISTS) S/s is planned to be implemented in GIS in line with the recommendation of "Report of Task Force on Cyclone Resilient Robust Electricity		Clarification required for better understanding of scope and cost estimation.	Requirement of RfP (clause A.2.0 of Specific Technical Requirement of Transmission Line) shall be followed.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		Transmission and Distribution Infrastructure in Coastal Area” published by CEA in May 2021 for construction of new substations up to 60km from the coastline. As per this report, for towers in coastal areas up to 20 Kms from the Coastal Line, Steel/Tubular Pole type structures can be considered. We understand it's not mandatory to go with steel/tubular pole & bidder can select the tower type based on site conditions. Please confirm that Bidder understanding is correct.			
5.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service	<b>Scope of Work</b> <b>4.0 Extension at Angul (POWERGRID) S/s</b> • 765kV line bays (along with space for future switchable line reactor): 2 nos. [For termination of Angul (POWERGRID) – Gopalpur 765kV D/c line along with 765kV, 1x330MVAR switchable line reactor at Gopalpur end in both circuits].	As per our understanding that only space provision for Switchable Line Reactors (SLR) is envisaged at Angul substation for termination of Angul - Gopalpur 765 D/C line.  Kindly confirm our		Clarification required for understanding project requirement and cost estimation.	It is clarified that 765 kV line termination/ bay arrangement at Angul S/s shall be such that adequate space provision along with the bay shall be kept for installation of switchable line reactor in future. This is amply

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response												
	Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>SLD of 765 KV Angul Substation ( Page no. 168 of 174)</b>	understanding is correct.			clear in the RfP.												
6.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion	<p><b>B.1.2 Switching Scheme</b> The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th style="font-size: small;">Substation</th> <th style="font-size: small;">765 kV side</th> <th style="font-size: small;">400 kV side</th> <th style="font-size: small;">220 kV side (Future)</th> </tr> </thead> <tbody> <tr> <td style="font-size: x-small;">765/400 kV Gopalpur (GIS) s/s</td> <td style="font-size: x-small;">One and half breaker</td> <td style="font-size: x-small;">One and half breaker</td> <td style="font-size: x-small;">Double Main</td> </tr> <tr> <td style="font-size: x-small;">Extn. of 765 kV Angul S/s (AIS)</td> <td style="font-size: x-small;">One and half breaker</td> <td style="font-size: x-small;">--</td> <td style="font-size: x-small;">--</td> </tr> </tbody> </table>	Substation	765 kV side	400 kV side	220 kV side (Future)	765/400 kV Gopalpur (GIS) s/s	One and half breaker	One and half breaker	Double Main	Extn. of 765 kV Angul S/s (AIS)	One and half breaker	--	--	<p>As per TSP understanding 220kV level (future) will be GIS type at proposed Gopalpur substation.</p> <p>Kindly confirm TSP understanding is correct.</p>		Clarification required for better understanding of scope and cost estimation.	Bidder's understanding is generally in order.
Substation	765 kV side	400 kV side	220 kV side (Future)															
765/400 kV Gopalpur (GIS) s/s	One and half breaker	One and half breaker	Double Main															
Extn. of 765 kV Angul S/s (AIS)	One and half breaker	--	--															

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Scheme - XXXIX (ERES-XXXIX)					
7.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.1.2 Switching Scheme</b> <i>(vi) Ext. Of Gopalpur (OPTCL) s/s: 2 Nos. full diameter i.e. 4 Nos. of GIS bays shall be implemented in the scheme for requirement of 2 Nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters under present scope of work with space provision for future switchable line reactor and GIS duct outside GIS building as mentioned above. Utilisation of other 2 Nos. GIS bays of these diameters shall be identified in future.</i>	As per SLD, Dia Configuration at Gopalpur (OPTCL) GIS is Line (without SLR) – Tie – ICT.  Kindly confirm TSP understanding is correct.		Clarification required for better understanding of scope and cost estimation.	The future 400 kV GIS bays at Gopalpur (OPTCL) S/s in ISTS diameter can be used for termination of line (along with line reactor) or ICT or Bus Reactor, as per system requirement.
8.	RFP for Selection of Bidder as Transmission	<b>B.1.2 Switching Scheme</b> The switching schemes, as mentioned below, shall be adopted at various voltage levels of	BPC is requested to provide Feeder distribution arrangement at 765kV, 400kV, 220kV bus for		Clarification required for better understanding of scope and cost	Refer clause B.1.2 of RfP for present scope of work.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	substation/switchyard:	better understanding in consideration with large no of future bays and Bus-section breaker requirement.		estimation.	Further space for future bays as mentioned in the RfP shall also be provided.
9.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish	<b>B.2.0 Substation Equipment and facilities</b>	We understand that TSP has to follow 'Guidelines for the Validity Period of Type Test(S) conducted on Major Electrical Equipment in Power Transmission' issued by CEA (Latest edition).  Kindly confirm.		Clarification required for understanding RFP requirement and cost estimation.	The requirement of RfP shall be followed. TSP shall decide the requirement of repetition of type test in line with latest CEA's "Guidelines for the type tests for major equipment of power sector" to the extent applicable. In case Validity of Type test of

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)					the equipment is not mentioned in the above Guidelines, then TSP shall decide requirement of repetition of type test as per best engineering Practices.
10.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme -	Dynamic SC Test Requirement for 500MVA, 765kV and 500MVA, 400kV ICT	For 500MVA, 765kV and 500MVA, 400kV ICT; Annexure – J & SC Test is not applicable as per Amendment – I to CEA Specification i.e. “The Dynamic short circuit (DSC) withstand test for these transformers shall be applicable for the projects for which bid invitation date is after 31 <sup>st</sup> August 2025”. (Ref CEA letter dated 26.06.2023).  Kindly confirm TSP understanding is correct.		Clarification required for understanding RFP requirement and cost estimation.	For requirement of Dynamic Short Circuit (DSC) withstand test for 765 kV voltage class autotransformer and 500 MVA, 400 kV Voltage Class autotransformer CEA’s letter No. CEA-PS-14-169/2/2019-PSETD Division dated 26.06.2023 shall be followed.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	XXXIX (ERES-XXXIX)					
11.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<p><b>B.2.5 Protection Relaying &amp; Control System</b></p> <p><b>d) Bus bar Protection</b></p> <p>The high speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 765kV and 400kV buses. Duplicated bus bar protection is envisaged for 765kV &amp; 400kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security. The scheme shall have complete bus bar protection for present as well as envisaged future bays i.e. input / output modules for envisaged future bays shall also be provided.</p> <p>Bus Bar protection system for new substation shall be de-centralized (distributed) type.</p> <p>In case, the bus section is provided, then each side of bus section shall</p>	<p>As Bus-section at 765kV &amp; 400kV voltage levels at Gopalpur is under future scope, we understand that TSP shall provide bus bar protection suitable for bays on present bus section of 765kV &amp; 400kV only. Centralised Unit along with I/O cards will be provided for present and future bays on present bus section excluding bus section breaker. PUs will be provided for present bays only.</p> <p>Kindly confirm TSP understanding is correct.</p>		Clarification required for understanding project requirement and cost estimation.	<p>It is envisaged that bus bar protection for the present bus section (including CUs for the future bays in the bus section) shall be provided under present scope.</p> <p>Further, Peripheral Units (PUs) for future bays shall be provided by respective owners.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		have separate set of bus bar protection schemes. For existing substations, the existing bus bar protection shall be augmented as per requirements.				
12.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.3.0 Substation support facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	We understand that existing equipment such as DG Set, LT Transformer, Battery & Battery charger have sufficient capacity to cater the requirements of bay under present scope of work, hence no need to consider new DG Set, LT Transformer, Battery & Battery charger in the existing substations.  AC & DC Power Supply from existing substation facilities will be made available by substation owner. Power supply arrangement from identified spare feeders will be done by TSP.  Kindly confirm TSP understanding is correct		Clarification required for understanding RFP requirement and cost estimation.	<b><u>For Angul S/s:</u></b> New LT transformer, battery and battery charger, DG set, firefighting pump is not envisaged for the bay extension in the Angul S/s under this scheme.  Extension of ACDB and DCDB is envisaged for the present scope of work.  For any other existing details, bidder may visit S/s site and acquaint himself.

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			for 765kV Angul AIS substation.			
13.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.3.1 AC &amp; DC Supplies</b> for bay Extension work of Angul 765/400 kV AIS substation & 400 kV Gopalpur GIS substation	DC power supply for PLCC and FOTE system will be made available by Substation Owner. Power supply arrangement from identified spare feeders will be done by TSP.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation.		Clarification required for better understanding of scope and cost estimation.	<b><u>For Angul S/s:</u></b>  DC power supply shall be extended with DCDB extension.
14.	RFP for Selection of Bidder as Transmission Service Provider for	<b>B.3.2 Fire Fighting System</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	We understand that no separate FF system is envisaged under present scope of work. TSP extend the existing system only.		Clarification required for understanding RFP requirement and cost estimation.	<b><u>For Angul S/s:</u></b>  Requirement of clause B.3.2 shall be followed. Further for any existing details, bidder is

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		Kindly confirm TSP understanding is correct for 765kV Angul AIS substation.			advised to visit S/s site and acquaint himself.
15.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission	<b>B.3.2 Fire Fighting System</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	We understand that there are adequate provisions in the existing Fire Fighting Annunciation Panel to integrate the Fire alarm signals associated with the bay extension work. Kindly confirm TSP understanding is correct for 765kV Angul AIS substation.		Clarification required for understanding RFP requirement and cost estimation.	<b><u>For Angul s/s:</u></b> For existing details, bidder may visit S/s site and acquaint himself.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)					
16.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.3.2 Fire Fighting System</b> NIFPS for Reactors	No NIFPS is envisaged for Reactor/ transformer under present scope.  Kindly confirm TSP understanding is correct.		Clarification required for better understanding of scope and cost estimation.	Refer clause B.3.2 of Specific Technical Requirement of Substation.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
17.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	No Drain, Cable trench, Internal Road, fencing considered in present scope of work.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation.		Clarification required for understanding RFP requirement and cost estimation.	<b><u>For Angul S/s:</u></b>  For existing details, bidder may visit S/s site.
18.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	As per TSP understanding, necessary process I/O and license for SAS integration are available for future bay extension work.  Kindly confirm TSP		Clarification required for better understanding of scope and cost estimation.	Bidder has not indicated the relevant clause number. <b><u>For Angul S/s:</u></b>  Refer clause B.2.6 of specific requirement of

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		understanding is correct for 765kV Angul AIS substation.			S/s.
19.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	As per TSP understanding, necessary I/O ports are available in existing Busbar protection for future bay extension work.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation.		Clarification required for better understanding of scope and cost estimation.	Bidder has not indicated the relevant clause number.  <b><u>For Angul S/s:</u></b>  Refer clause B.2.6 of specific requirement of S/s.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Region Expansion Scheme - XXXIX (ERES-XXXIX)					
20.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	TSP understand that only relay co-ordination updating is in the scope of TSP. Any kind of hardware upgradation in existing protection system shall be in existing owner scope. Kindly confirm TSP understanding is correct for 765 kV Angul AIS substation .		Clarification required for better understanding of scope and cost estimation.	<b><u>For Angul S/s:</u></b> All associated works related to bays under present scope shall also be in the scope of successful bidder.
21.	RFP for Selection of	<b>B.5 Extension of Existing Substation</b>	<b>765 kV Angul AIS substation</b>		Clarification required for better	<b><u>For Angul S/s:</u></b>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response				
	Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		<p>Please provide following drawings related to existing substation:</p> <ul style="list-style-type: none"> <li>• Earth mat Layout</li> <li>• Cable Trench Layout</li> <li>• SAS Architecture Drawings</li> <li>• Busbar Protection drawing</li> <li>• DSLP Layout</li> <li>• Soil investigation report</li> <li>• ERT Report</li> <li>• Contour Survey</li> </ul>		understanding of scope and cost estimation.	<p>Refer clause B.5 of specific technical requirement of S/s vide which tender drawings are provided.</p> <p>Further, for any other existing details, bidder may visit S/s site and acquaint himself.</p> <p>Soil investigation is also in the scope of the TSP.</p>				
22.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service	<b>C.4.0 Extension works at Angul (POWERGRID) 765/400kV S/s: - 2 nos. of 765kV line bays</b>	<p>Kindly provide the technical details of existing FOTE at following substations for 765kV line work:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%;">Station</td> <td style="width: 15%;">Make &amp; Type /Mod</td> <td style="width: 15%;">Capacity of</td> <td style="width: 15%;">Availability of Spar</td> </tr> </table>	Station	Make & Type /Mod	Capacity of	Availability of Spar		Clarification required for better understanding of scope and cost estimation.	<p>Existing FOTE detail at 765 kV Angul S/s is as follows:</p> <p>(i) Fibcom T6325_14: STM16</p> <p>(ii) Coriant hiT7025 4.3: STM16</p> <p>TSP to provide the FOTE at their bay Kiosk at Angul S/s and</p>
Station	Make & Type /Mod	Capacity of	Availability of Spar							

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response								
	Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;"></td> <td style="width: 25%; text-align: center;">el</td> <td style="width: 25%; text-align: center;">Exi stin g eq ui p me nts</td> <td style="width: 25%; text-align: center;">e ports</td> </tr> <tr> <td style="text-align: center;">765k V Angu l S/s (PG)</td> <td></td> <td></td> <td></td> </tr> </table>		el	Exi stin g eq ui p me nts	e ports	765k V Angu l S/s (PG)						optically patch with existing FOTE at control room. In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in the existing FOTE at control room.
	el	Exi stin g eq ui p me nts	e ports											
765k V Angu l S/s (PG)														
23.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern	<b>Repeater Requirements</b> - If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings to establish connectivity up to the location of repeater shelter. TSP shall provide repeater shelter along with FODP, FOTE (with STM-16 capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply,	As per our understanding, line length of 765 KV Gopalpur-Angul D/C Line is less than 225 KM, Optical amplifier cards suitable for 225 KM will be provided therefore Repeater is not required.  Kindly confirm.		Clarification required for better understanding of scope and cost estimation.	Bidders shall comply the requirement of RfP.								

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	Region Expansion Scheme - XXXIX (ERES-XXXIX)	battery bank, Air Conditioner and other associated systems. Maintenance of OPGW Cable and OPGW Hardware, repeater equipment & items associated with repeater shelter shall be responsibility of TSP.				
24.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>Clause 2.6 Project Schedule:</b> As per the RFP, there is no provision of recovering transmission charges on pro rata basis as all the five transmission elements are to be commissioned simultaneously for 100% recovery of transmission charges.	BPC is requested to allow the recovery of transmission charges on pro rata basis (percentage wise) as per the below schedule  1. Transmission Elements 1, 2 & 4 (Refer RFP Clause 2.6) 2. Transmission Elements 3 & 5 (Refer RFP Clause 2.6)		OPTCL GIS S/s where 400 kV line from Gopalpur to be terminated is under construction & any delay in commissioning of this S/s may lead to delay in SCOD of the ERES-XXXIV project.	All elements of the scheme as mentioned in RfP/ TSA are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
25.	<b>RFP</b>	<b>ANNEXURE C</b>	It is understood that the		As per general	Requirement of RfP

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		<p><b>SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE</b>  <b>Clause – A.17.0</b></p> <p>d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.</p>	total thickness of cement plaster is 20mm which may be provided in two layer (eg 8mm of one coat and 12 mm of another coat)		practice adopted in transmission line foundations in coastal area	shall be followed. Further, the standard practice for double coat 20 mm thick cement plaster may be followed.
26.	RFP	<p><b>1.6 Brief Scope of Work</b>  Clause-1.6.1.1</p> <p>Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.</p>	Kindly clarify whether proposed 765/400 kV GIS substation at Gopalpur can be considered as an intermediate substation.		The bidder can provide the realistic tariff bid.	It is a greenfield load serving substation.
27.	RFP document	<p>Clause no. 1.2 of Section 1 of RFP,  Scope of the Transmission Scheme:  Establishment of new 765/400 kV,</p>	(i) BPC is requested to kindly provide the definitions for generation pooling substation, load		Bidder needs the information for proper estimation	(i) Load Serving substation: The substation where load is connected.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		<p>2x1500 MVA GIS substation at Gopalpur in Odisha</p> <p>1.6.1.1 ... ..</p> <p>Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield Intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.</p>	<p>serving substation and Greenfield intermediate Substation.</p> <p>ii) BPC is requested to confirm whether <b>“Gopalpur GIS Substation”</b> is classified as Greenfield generation Pooling Substation/ Load serving station or Greenfield intermediate Substation.</p>			<p>Generation pooling station: Where generating station is connected directly or through dedicated transmission line for evacuation of power.</p> <p>Greenfield intermediate substation: The new substation which does not fall under the above two categories.</p> <p>(ii) It is a greenfield load serving substation.</p>
28.	RFP for Selection of Bidder as Transmission Service Provider	General	BPC is requested to confirm, whether the Project / Elements are covered under “Generation linked Project” or “System Strengthening Project.		Bidder needs information for proper estimation.	It is a system expansion scheme.
29.	RFP for Selection of Bidder as Transmission Service Provider &	Para 1.6.1.1 of RFP Establishment, operation and maintenance of the Project on build, own, operate and transfer basis and completion of all the activities for the	i) BPC is requested to kindly provide the definitions for generation pooling substation, load serving substation and Greenfield intermediate Substation.			<p>(i) Load Serving substation: The substation where load is connected.</p> <p>Generation pooling station: Where</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	TSA	Project, including survey, detailed project report formulation, arranging finance, project management, necessary Consents, Clearances and Permits (way leave, environment & forest, civil aviation, railway/road/river/canal/power crossing/PTCC, etc.), land compensation, design, engineering, equipment, material, construction, erection, testing & commissioning. Further, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield Intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report.	ii) BPC is requested to confirm our understanding that the “765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha” under the present scope of work shall be classified as load serving Substation.			generating station is connected directly or through dedicated transmission line for evacuation of power.  Greenfield intermediate substation: The new substation which does not fall under the above two categories.  (ii) It is a greenfield load serving substation.
30.	RFP for Selection of Bidder as Transmission Service	FAQ Clause 2.2 & Central Electricity Regulatory	We understand that CERC (O&M) guidelines dt. 15.03.2024 shall prevail for the bay O&M charges at Angul & Gopalpur		Bidder needs the information for proper estimation.	CEA,s “Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Provider	Commission guidelines dt. 15.03.2024	(OPTCL) SS. BPC to please confirm.			New TSP and Existing TSP” issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023 shall be followed. Copy of the guideline is available on CEA website at following link: <a href="https://cea.nic.in/wp-content/uploads/pse-td/2023/06/om_guidelines.pdf">https://cea.nic.in/wp-content/uploads/pse-td/2023/06/om_guidelines.pdf</a>
31.	RFP for Selection of Bidder as Transmission Service Provider	Section-1: Clause 1.2 Scope of work <b>Scheduled COD in months from Effective Date</b> <b>30.06.2026</b>	We have noted that the SCOD of the projects is mentioned as “30 <sup>th</sup> June 2026.  we would like to share certain observations regarding implementation challenges that are Forest Approval, RoW issues, Presence of Coastal Regulated Zone etc. may impact the scheduled COD of the project.  we request that scheduled COD of the project may be relooked and construction timeframe of		Bidder needs the information for proper estimation	Completion schedule of Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX) Transmission Scheme is 30-06-2026.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			<p>the projects suitably amended in numbers of months from effective date of contract instead of a fixed date.</p> <p>In view of the same, BPC is requested to define execution period as effective Date (as defined in TSA) + Period of execution in months instead of fixed.</p>			
32.	RFP General	<p>RFP General</p> <p><b>Regulatory approval for the subject project</b></p>	<p>Vide Record of proceeding (RoP) of Petition No. 52/TL/2024 &amp; Petition No. 64/AT/2024 , CERC asked for the reasons for not obtaining regulatory approval for the transmission system.</p> <p>In view of above, it is requested to kindly confirm whether regulatory approval is required?</p>		To mitigate risks associated with potential delays or disruptions in project execution due to regulatory approval-related issues.	It is a system expansion scheme for load serving, approved for implementation after due stakeholders' consultation.
33.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATIO	EXTENSION OF EXISTING SUBSTATION	It is requested to provide Layout Plan/Section and SLD drawing of 765kV Angul (PG) substation showing bay allocation and line termination		Bidder needs information for proper estimation.	<p><b>For 765 kV Angul (PG) Substation</b></p> <p>Refer clause B.5 of specific technical requirement of RfP where SLD of Angul S/s</p>

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	N  Page 150 Sr. no. B.5		arrangement for the present scope of work.			is provided along with RfP. Further, for other existing details, bidder may visit s/s site and acquaint himself.
34.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 150 Sr. no. B.5	For LT Supply at each new Substation, two (2) nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.	Considering availability and poor regulation in SEB supply, we request to permit Two sources of LT supply by installing LT transformers on tertiary of Two 400/220kV/33kV ICT's.		Bidder needs information for proper estimation.	Requirement of RfP shall be followed.
35.	RFP for Selection of Bidder as Transmission Service Provider	Specific Technical requirements for Transmission Line	Please note that for transmission line, no special requirement is specified for type of Insulator and creepage in RFP document.  Hence it is understood that bidder can decide the type of insulator along with creepage requirement based on general CEA regulations and relevant standards. Kindly confirm our understanding.		Bidder needs information for proper estimation.	The minimum specific creepage distances shall be decided for the pollution condition in the area of installation. It shall be as per CEA regulations and relevant standards.
36.	RFP for Selection of	Special Technical requirement for Transmission Line	It is understood that the importance factor K4 for		Bidder needs confirmation for	K4 factor shall be considered along with

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Bidder as Transmission Service Provider	Clause A.16.0.b specifies "Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design"	<p>cyclonic region is derived from IS 875 (Part 3):2015 which is yet not part of IS 802: (Part -1/Sec-1).</p> <p>Also, IS 875 (Part 3):2015 specifies loads applicable for structures while IS 802: (Part -1/Sec-1):2015 specifies loads applicable for tower design that is inclusive of load on structure as well as conductor loads.</p> <p>Based on above confirmation is required whether the specified K4 factor of 1.3 is applicable for:</p> <p>1. Tower structure body wind calculation only and not to Conductor/EW/Insulator</p> <p>2. Applicable to overall tower design i.e. Tower body/conductor/EW/insulator.</p>		better understanding and proper estimation.	<p>the factors K1 and K2 while determining design wind speed (Vd) and shall be applied for calculating wind load on the tower structure.</p> <p>K4 factor is not required to be applied for Narrow front wind loading for the Suspension towers.</p>
37.	RFP for Selection of Bidder as Transmission	Special Technical requirement for Transmission Line Clause A.16.0.b specifies "Importance	As per IS 802 (Part-1, Sec-1):2015, Suspension tower is required to be designed for Narrow front		Bidder needs confirmation for better understanding and proper	K4 factor is not required to be applied for the Narrow front wind loading for Suspension

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Service Provider	factor for cyclonic region (K4) of 1.3 shall be considered for tower design”	wind loading where a factor of 1.5 is applied to basic wind speed.  Request confirmation whether, the factor 1.3 is required to be multiplied in addition the factor of 1.5 in case of Narrow front wind loading.		estimation.	towers.
38.	RFP for Selection of Bidder as Transmission Service Provider	Special Technical requirement for Transmission Line Clause A.16.0.a specifies “Terrain category with terrain roughness factor (K2) shall be considered as per IS 802 (part 1/ Sec 1), as amended from time to time, for tower design for exposed open terrain with few or no obstruction which also includes open sea coasts, open stretch of water, desert and flat treeless plains.”	It is understood from the specified clause that terrain category is to be decided based on actual terrain and accordingly terrain roughness coefficient is to be considered as per IS 802 (Part 1/Sec 1)	Terrain category with terrain roughness factor (K2) shall be considered as per IS 802 (part 1/ Sec 1), as amended from time to time, for tower design.	Bidder needs confirmation for better understanding and proper estimation.	RfP provision is amply clear. Terrain category-I with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction which also includes open sea coasts, open stretch of water, desert and flat treeless plains.
39.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS • 765 kV AIS line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765	BPC is requested to furnish the following documents for the extension work at Angul:  1. Soil Investigation report		Bidder needs the information for proper estimation	Refer clause B.5 of specific technical requirement of S/s. Further, for other existing details, bidder is advised to visit site.  Soil investigation is in

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		<i>kV D/c line] including bus extension in GIS of about 3000 m</i>	2. Earthmat layout Fire hydrant system layout			the scope of the TSP.
40.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS • 765 kV AIS line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line] including bus extension in GIS of about 3000 m	BPC is requested to furnish the following data for the extension work at Angul:  1. Availability of space in existing Control room for extension work  2. Availability of CU and PU for bays under present scope of work  3. Sufficiency of existing fire hydrant system for extension  4. Availability of Feeders in existing ACDB and DCDB panels  5. Sufficiency of existing battery and battery charger for extension work  6. Availability of AC & DC Feeders in LT boards.		Bidder needs the information for proper estimation	Bidder is advised to visit site and acquaint himself.
41.	RFP for Selection of	Clause 1.2 Extension at 765 kV level at Angul	We understand TSP has to follow RFP requirement		Bidder needs the information for	TSP shall follow the requirement of RfP.

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Bidder as Transmission Service Provider	(POWERGRID) S/s including bus extension in GIS  <i>765 kV AIS line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line] including bus extension in GIS of about 3000 m .</i>	only. Existing station (at Angul (PG)) owner practice and requirement is not binding on TSP.		proper estimation	
42.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Scope of work Note iv. POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.	We understand that the mentioned space for the execution of present scope of work for the current project at Angul substation will be provided free of cost to the TSP.  Please confirm.		Bidder needs the information for proper estimation	The space shall be provided free of cost.
43.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) –	BPC is requested to mention if the future bays are to be used as line bays, ICT bays or Bus Reactor Bays.		Bidder needs the information for proper estimation	Refer note (iv) of clause B.1.2 of specific technical requirements of S/s.  The future 400 kV GIS bays at Gopalpur (OPTCL) S/s in ISTS diameter can be used for termination of line (along with line reactor)

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos.  GIS bays of these diameters shall be identified in future. GIS bays of these diameters shall be identified in future.				/ ICT / Bus reactor, as per system requirement.
44.	RFP for Selection of Bidder as Transmission Service Provider	Clause B.1.2 Note: (iv) In case of GIS substation where the bus scheme is One and Half breaker scheme, the diameters shall be complete with feeder/line side isolator to be used for any future line with switchable line reactor bay and GIS duct of the future bay shall be brought outside the GIS hall/building with extension/interface module suitably.	As the make and model of future GIS equipment is unknown, we understand that the bays provided for completion of dia (to be utilized in future) are to be terminated immediately outside the GIS Hall with extension module.  Please confirm.		Bidder needs the information for proper estimation	RfP is amply clear.
45.	RFP for Selection of Bidder as Transmission Service Provider	B.3.6 GIS hall Further, both the 765kV & 400kV GIS building shall be suitable for expansion such that future adjacent GIS bays can be installed from either side of GIS building as per layout requirement.	As the provision of expansion from both sides of GIS Hall will increase the required land for the Substation, we request BPC to consider other option of provision for the expansion from one side		Bidder needs the information for proper estimation	Requirement of RfP shall be followed.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			of the GIS Hall.			
46.	<b>Survey report</b>	-	As per BPC survey route, RF of approx. 10.021 kms. is mentioned. However, we understand that apart from Reserve Forest, there are PF/revenue forest also along the survey route which BPC has not considered. BPC is requested to provide the PF and Revenue forest details also.		The bidder can provide the realistic tariff bid.	<p>The survey report is already issued to the bidders with all relevant details.</p> <p>However, bidder shall finalize the route after their detailed survey considering the requirement of RFP and CEA regulations.</p> <p>Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP Document.</p>
47.	<b>Survey report</b>	-	As per BPC Survey, route is involving crossing of proposed dedicated Railway freight corridor. But, the same is not mentioned in the report.  <b>The details of proposed dedicated Railway</b>		The bidder can provide the realistic tariff bid.	<p>Please refer amendment to survey report attached at <b>Annexure B</b>.</p> <p>Further, bidder shall finalize the route after detailed survey considering the</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			freight corridor may be provided by BPC in coordination with railway authorities.			<p>requirement of RFP and CEA regulations.</p> <p>Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP Document.</p>
48.	Survey report	-	<p>As per BPC Survey, route is crossing Mahanadi River involving 4 no. of pile foundations having stretch of 3700m. Also the river has been mentioned "<b>Non-Navigable</b>" in the report.</p> <p>As per Office Memorandum ref. no. IWAI/NW(Gen.)/NOC/2020 dated 29.12.2022 from the Inland Waterways Authority of India (IWAI), Mahanadi River has been declared as National Waterway-64 under Class-1.</p>		In exercise of powers conferred under Section 35 read with clause (g) of Sub section(2) of of section 14 of Inland Waterway Authority of India Act 1985 (82 of 1985) the Authority with the approval of Central Govt notified Inland Waterways Authority of India ( Classification of Inland Waterways in India) Regulations 2006 amended in 2016 which	<p>The survey report is already issued to the bidders.</p> <p>Further, it is to clarified that the Mahanadi River is "<b>Navigable</b>" river.</p> <p>Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP Document.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			Kindly clarify whether the Mahanadi River is “Navigable” or “Non-Navigable” river.		necessitates to obtain clearance from the Authority before construction of any structure across National Waterway.	
49.	RFP	<p><b>ANNEXURE C SPECIFIC TECHNICAL EQUIREMENTS FOR TRANSMISSION LINE Clause – A.14.0</b></p> <p>Pile type foundation shall be used for towers located in river or <b>creek bed</b> or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation.</p>	<p>As per Survey report, proposed 765kV Gopalpur S/s is approx. 8 kms from sea coastal line and major portion of 765kV Angul-Gopalpur and 400kV Gopalpur-Gopalpur TLs falls under Creek region/creek bed. Further as per the soil investigation carried by us, it is learnt that the bearing capacity of soil in Creek region/creek bed in few area is very less as compared to standard soil parameters used for design of foundation.</p> <p><b>In this regard, Kindly clarify following:-</b></p> <p><b>a) Length of Stretch to be considered under creek</b></p>		The bidder can provide the realistic tariff bid.	<p>The survey report is already issued to the bidders with all relevant details.</p> <p>However, bidder shall finalize the route after their detailed survey considering the requirement of RFP and CEA regulations.</p> <p>Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP Document.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			<p>region/creek bed for Pile type foundation.</p> <p>b) If the bearing capacity of soil in any stretch of Creek region/creek bed is better as compared to standard soil parameters used for design of foundation, whether Pile foundation is necessary.</p> <p>whether other soil improvement techniques may be adopted.</p>			
50.	<p><b>Survey report &amp; RFP</b></p>	<p><b>ANNEXURE C SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE Clause – A.21.0</b></p> <p>Safety precautions in regards to gas/oil pipe lines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum</p>	<p>As per BPC Survey, route is involving criss-crossing of Crude oil/petroleum/natural gas existing/under construction pipeline, between AP 64 to AP99, at various stretches. But, the same is not mentioned in the report.</p>		<p>As per Clause 60 as per CEA (Measures relating to Safety and Electric Supply) Regulations, 2023 following is mentioned:</p> <p>(4) No tower footing or structure of an</p>	<p>Please refer amendment to survey report attached at <b>Annexure B.</b></p> <p>However, bidder shall finalize the route after their detailed survey considering the requirement of RFP</p>

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		authorities.	The details of proposed/under construction Crude oil/petroleum/natural gas pipeline may be provided by BPC in coordination with gas/petroleum authorities.		overhead line of voltage 33 kV or above or high voltage direct current, shall be closer than twenty five metre from the edge of the right of way of a Petroleum or Natural Gas pipeline. (5) Wherever overhead line of voltage 33 kV or above or high voltage direct current intending to cross the right of way of a Petroleum or Natural Gas pipeline, the angle of crossing of the overhead line with respect to the pipelines shall preferably be at right angles and, in any case, the crossing angle shall not be less than seventy	and CEA regulations. Bidder may also visit the site and acquaint themselves with the site conditions.  Please also refer Clause no 2.5.7 of the RFP Document.

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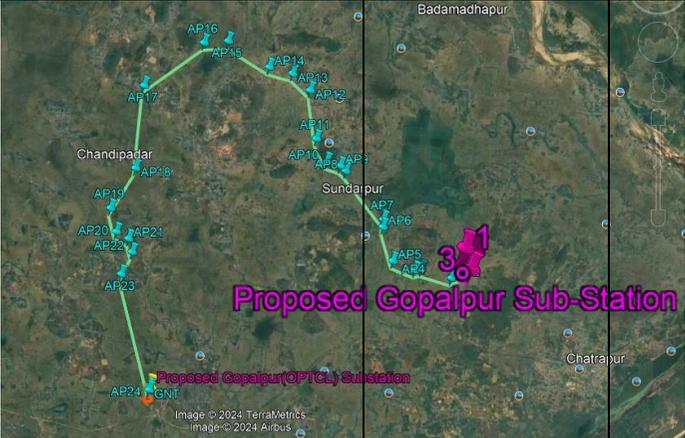
Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
					five degrees.	
51.	RFP for Selection of Bidder as Transmission Service Provider	Annexure-C: Specific Technical requirements for Transmission Line Clause no. A.16.0 and A.17.0,; “Wherever, transmission lines are passing through cyclone prone areas i.e. areas upto 60 km from coast following shall also be applicable...”	<p>With reference to RFP Annexure C clause no. A16.0 &amp; A17.0, transmission lines passing through cyclone prone areas i.e. areas upto 60 km from coast bidders are advised to follow specific guidelines in tower/ foundation design.</p> <p>Kindly note that as the coast is of irregular shape and coast definition is not defined in the RFP and hence, there is an ambiguity in consideration of coastline. BPC is requested to clarify the following:</p> <p>a) Provide the Coastline in kml/kmz file with clear demarcation, for entire coast for consideration of cyclone prone area and coastal offset line of 60 km from coastal</p>		Bidder needs the information for proper estimation	<p>The survey report is already issued to the bidders with all relevant details.</p> <p>However, bidder shall finalize the route after their detailed survey considering the requirement of RFP and CEA regulations.</p> <p>Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP Document.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			line. BPC may please specify the point of reference for consideration of coastal line.			
52.	RFP Survey Report &	<p>Sn. 2 of RFP under note (i)</p> <p>Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.400/220kV (Intra-state) substations at Gopalpur.</p> <p>CHAPTER-4.1 Co-ordinates of the substation under Survey report</p> <p>The exact coordinates for construction of 2 nos. of 400 kV line bays at Gopalpur (OPTCL) for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line has to be obtained from the substation owner during execution stage.</p>	<p>As per RFP, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) however, .kmz file of survey report showing the 25.4km.</p> <p>In this connection, request BPC to provide the exact land coordinates along with S/s layout showing gantry position for Gopalpur (OPTCL) sub-station, as presently no sub-station existing at Gopalpur (OPTCL) and therefore, assessing the line termination point at Gopalpur (OPTCL) would be difficult.</p> <p>Further, change of Gopalpur (OPTCL) co-</p>			<p>The survey report is already issued to the bidders with all relevant details.</p> <p>The GPS Co-ordinate of location of the Gopalpur (OPTCL) sub-station, as provided by OPTCL is as below:</p> <p><b>Latitude:</b> 19° 21' 4.0212 " N <b>Longitude:</b> 84 ° 51' 7.6464" E</p> <p>The above coordinate of location of the Gopalpur (OPTCL) substation are only for the purpose of facilitating Bidders to locate the substation and the same should not be considered as the point of termination</p>

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			<p>ordinates would lead to variation in transmission line BoQ and their Cost.</p>			<p>of transmission line. For exact point of termination of transmission line, the Bidder shall have to coordinate with OPTCL for inter-connection facility.</p> <p>Bidder may also visit site and acquaint themselves with site conditions.</p> <p>Please also refer Clause no 2.5.7 of the RFP Document.</p>
53.	<p>Survey Report for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish</p>	<p><b>Forest Details - Page 32</b></p>	<p>As per our site survey, we understand that apart from Protected &amp; Reserve Forest, there are revenue forest also along the survey route which BPC has missed inadvertently. BPC is requested to provide the revenue forest details also.</p>		<p>Clarification required for better understanding of scope and cost estimation.</p>	<p>The survey report is already issued to the bidders with all relevant details.</p> <p>However, bidder shall finalize the route after their detailed survey considering the requirement of RFP and CEA regulations.</p> <p>Bidder may also visit</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)					the site and acquaint themselves with the site conditions.  Please also refer Clause no 2.5.7 of the RFP Document.
54.	Survey Report for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme -	<b>Chapter 4.4</b> <b>Summary of the proposed Route</b>	As per the survey report the bee line length for the Gopalpur - Gopalpur OPTCL 400 kV is 10.718 km whereas the actual route length is 25.358 km. May please clarify the reason for such major deviation.		Clarification required for better understanding of scope and cost estimation	The transmission route mentioned in the survey report has deviated from BEE line to avoid the funnel zone of Rengeilunda Air Strip.  However, bidder shall finalize the route after detailed survey considering the requirement of RFP and CEA regulations.  Bidder may also visit the site and acquaint themselves with the site conditions.  Please also refer

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	XXXIX (ERES-XXXIX)					Clause no 2.5.7 of the RFP Document.
55.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme -	2.5.7 Bidders to inform themselves fully Site visit of proposed substation plot	<p>The area allocated for substation is 55 Acres (approx. 700 m x 320 m).</p> <p>Kindly confirm whether TSP to acquire minimum land parcel (55 Acres) or TSP can acquire any size as per the actual layout requirement.</p>		Clarification required for understanding RFP requirement and cost estimation.	<p>The land area as mentioned in the survey report is indicative in nature.</p> <p>Successful bidder shall make their own assessment and acquire the land as per the layout requirement for the scope including future space mentioned in RFP.</p> <p>Bidder may also visit the site and acquaint themselves with the site conditions.</p> <p>Please also refer Clause no 2.5.7 of the</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	XXXIX (ERES-XXXIX)					RFP & Clause no 5.1.4 of the TSA Document.
56.	RFP & TSA	<p>Schedule 1, TSA, Project Description and Scope of Project:</p> <p><i>Note:</i></p> <p><i>c. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) - Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.</i></p> <p><i>d. POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) - Gopalpur 765 kV D/c line.</i></p>	<p>Construction of elements by the Selected Bidder would depend on provision of space by PGCIL at Angul (PG) S/s &amp; OPTCL at Gopalpur (OPTCL). Therefore, same would be out of control of the Selected TSP.</p> <p>1. Whether there is any timeline within which PGCIL &amp; OPTCL need to provide space to Selected Bidder?</p> <p>2. BPC to please clarify under what binding arrangement or agreement is place with the PGCIL &amp; OPTCL regarding obligation to provide space in timely manner?</p> <p>3. BPC to share a copy of the binding document or agreement (mentioning</p>		Bidder needs the information for proper estimation	<p>1. Successful Bidder to coordinate with the TSPs of Angul (PG) S/s &amp; Gopalpur (OPTCL) substation during execution stage.</p> <p>2. As per Gazette of India (CG-DL-E-01032024-252546) dated 01.03.2024, OPTCL and PGCIL has to provide space at Gopalpur (OPTCL) 400/220 kV GIS S/s and Angul (POWERGRID) 765/400 kV S/s respectively for the scope mentioned in RfP. This space shall be provided free of cost.</p> <p>3. Provisions of the RFP Document is amply clear in this</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			<p>timeline of providing bays and space for line reactors to TSP) agreed by PGCIL and OPTCL.</p>			<p>regard and shall prevail.</p>
57.	TSA:	<p>Schedule 1: Note d. Scope of the Transmission Scheme provides that <i>POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) - Gopalpur 765 kV D/c line</i></p>	<p>The construction of 2 Nos. of 765 kV line bays at Angul S/s by the selected bidder would depend on the provision of spaces to be provided by POWERGRID and would be out of control of the selected bidder. BPC to clarify the following:</p> <p>a. Whether the space provided by POWERGRID for the construction of the 2 Nos. of 765 kV line bays at Angul S/s will be compatible for the selected bidder for the development of 2 Nos. of 765 kV line bays at Angul S/s?</p> <p>b. Whether the spaces will be provided by POWERGRID as free of cost?</p> <p>c. Under which documents or transactions POWERGRID shall be obligated to provide space</p>		<p>Bidder needs the information for proper estimation</p>	<p>a. The prospective bidders are requested to visit the site physically to acquaint themselves with the condition of land at Angul (POWERGRID) 765/400 kV S/s. b. The space shall be provided free of cost. c. As per Gazette of India (CG-DL-E-01032024-252546) dated 01.03.2024, PGCIL has to provide space at <i>Angul (POWERGRID) 765/400 kV S/s respectively</i> for the scope mentioned in RfP.  d, e &amp; f  Provisions of the RFP Document is amply clear in this regard and shall prevail.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			<p>to the selected bidder?</p> <p>d. BPC to share the copy of the documents under which POWERGRID is obligated to provide space to the selected bidder.</p> <p>e. In case of any delay on the part of POWERGRID in providing space to the Selected Bidder, whether the extension of SCOD and reimbursement of the cost will be provided to the selected bidder?</p> <p>f. Whether the delays on the part of POWERGRID in providing the space will cover under force majeure?</p>			
58.	TSA:	<p>Schedule 1: note c.</p> <p>Scope of the Transmission Scheme provides that <i>OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) - Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays</i></p>	<p>The construction of 2 Nos. of 400 kV GIS line bays at Gopalpur (OPTCL) S/s by the selected bidder would depend on the provision of spaces to be provided by OPTCL and would be out of control of the selected bidder. BPC to clarify the following:</p> <p>a. Whether the space</p>		Bidder needs the information for proper estimation	<p>a. The prospective bidders are requested to <i>coordinate with OPTCL</i> and visit the site physically to acquaint themselves with the condition of land at <i>Gopalpur Gopalpur (OPTCL) 400/220 kV GIS S/s.</i></p> <p>b. The space shall be provided fee of cost.</p>

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		<p><i>shall be established.</i></p>	<p>provided by OPTCL for the construction of the 4 Nos. of 400 kV line bays at Gopalpur (OPTCL) S/s will be compatible for the selected bidder for the development of 4 Nos. of 400 kV line bays at Gopalpur (OPTCL) S/s?</p> <p><b>b.</b> Whether the spaces will be provided by OPTCL as free of cost?</p> <p><b>c.</b> Under which documents or transactions OPTCL shall be obligated to provide space to the selected bidder?</p> <p><b>d.</b> BPC to share the copy of the documents under which OPTCL is obligated to provide space to the selected bidder.</p> <p><b>e.</b> In case of any delay on the part of OPTCL in providing space to the Selected Bidder, whether the extension of SCOD and reimbursement of the cost will be provided to the selected bidder?</p> <p><b>f.</b> Whether the delays on</p>			<p>c. As per Gazette of India (CG-DL-E-01032024-252546) dated 01.03.2024, OPTCL has to provide space at Gopalpur (OPTCL) 400/220 kV GIS S/s for the scope mentioned in RfP.</p> <p>d, e &amp; f</p> <p>Provisions of the RFP Document is amply clear in this regard and shall prevail.</p>

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			the part of OPTCL in providing the space will cover under force majeure?			
59.	TSA:	<p>Clause 5.1.2</p> <p>The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of the unsuitability of the Site or Transmission Line route(s).</p>	<p>BPC to clarify that as the spaces for 2 no. of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) - Gopalpur 765 kV D/c line and 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) - Gopalpur (OPTCL) 400 kV D/c (Quad) line, shall be provided by POWERGRID and OPTCL respectively, who shall be responsible in case of unsuitability of the land provided by POWERGRID and OPTCL?</p>		Bidder needs the information for proper estimation	<p>The prospective bidders are requested to visit the site physically to acquaint themselves with the condition of land at Gopalpur (OPTCL) 400/220 kV GIS S/s and Angul (POWERGRID) 765/400 kV S/s.</p>
60.	Transmission Service Agreement	<p>Clauses 4.1(f) and 4.2.1(e)</p> <p>These clauses provide assistance by Nodal Agency or TSP to the Arbitrators as required for the</p>	<p>BPC is requested to provide the definition of Arbitrators used as defined term.</p>		Bidder needs the information for proper estimation	<p>This is as per the SBD and amendments thereof, issued by the Ministry of Power.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		performance of their duties and responsibilities				
61.	TSA:	<p>5.1.4.(a) The actual location of substations, switching stations or HVDC terminal or inverter stations shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report.</p> <p>The actual location of Greenfield substations for a generation pooling substation and for load serving substations shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the survey report.</p>	BPC is requested to clarify that in case no land is available for substations, switching stations or HVDC terminal or inverter stations within 3 KM/10KM radius of the location proposed by the BPC in the survey report, whether the selected bidder can opt for the land beyond 3KM/10KM?		Bidder needs the information for proper estimation	<p>It is a greenfield load serving substation. Location of substation should be finalised by TSP accordingly.</p> <p>It is to mention that MoP letter dated 16.06.2023 (copy enclosed at <b>Annexure A</b>) regarding amendment in Standard Bidding Documents for procurement of Inter-State Transmission Services through TBCB process provides that "the actual location of Greenfield Substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 km radius of the location proposed by the BPC in the survey report. However, actual</p>

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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
						location of any Greenfield Intermediate Substations in the scope of TSP shall not be beyond 10 km radius of the location proposed by the BPC in the Survey Report."
62.	Transmission Service Agreement	TSA ARTICLE: 5 Clause no. 5.5.6 - For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.	We understand that of List of Element(s) along with the critical Element(s) are defined and provided in TSA and there will no separate list of Elements(s) to be provided by CEA.		Bidder needs the information for proper estimation.	It is to intimate that no separate list of element(s) from planning side is envisaged.

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## Additional clarifications dated 22.07.2024 on RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process

S No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
1.	RFP	<b>General</b>	Kindly confirm:  whether the Project / Elements are covered under “Generation linked Project” or “System Strengthening Project”			It is a system expansion scheme.
2.	RFP	<b>General</b>	Kindly confirm:  Whether the Project/ Elements are eligible for early commissioning incentive as per MoP, Gol order dated 15.07.2015.			The provisions in TSA pertaining to commissioning shall prevail which interalia covers the matter of preponing of CoD. The TSP may approach the Committee constituted by MoP vide its OM No. 15/1/2013-Trans dated 14.12.2021 to ensure smooth operationalization of the Policy for early commissioning.
3.	RFP for selection of Bidder as Transmission Service Provider.	<b>General</b>	BPC is requested to confirm, whether the project/Elements of the project are a part of Associated Transmission System (ATS) as per definition of Connectivity and General Network Access to the inter-State Transmission System, Regulations, 2022.		Bidder needs information for proper estimation	It is a system expansion scheme.
4.	RFP for selection of Bidder as Transmission	<b>General</b>	BPC is requested to provide the details of transmission element(s) of subject project, for which any delay in		Bidder needs information for proper estimation	It is a system expansion scheme. Liabilities for delay shall be as per provisions of the TSA and various CERC Regulations.

Additional clarifications dated 22.07.2024 on RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process

S No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	Service Provider.		construction of transmission elements by TSP resulting in mismatch of these elements viz-a-viz. generation station(s) or Unit(s), TSP shall be liable to make payments viz., transmission charges to generation station(s) or unit(s). under clause 13.8, Sharing of Inter-State Transmission Charges and Losses, Regulations, 2020.			
5.	RFP for selection of Bidder as Transmission Service Provider.	<b>General</b> This has reference to the guidelines dated 14/06/2024 issued by Ministry of Power (MoP), Gol for payment of compensation regarding Right of Way (RoW) for transmission lines (copy attached). These guidelines are issued in supersession of the earlier guidelines dated 15/10/20215,	The guidelines at Sr. No. 3, inter-alia, stipulates “ <b><i>The states/ UTs may adopt these guidelines in their entirety or issue their own modified guidelines. In the absence of State Government guidelines, these guidelines issued by the Central Government shall apply for determining compensation</i></b> ”.  In view of above, please clarify that in case of such states wherein State Government guidelines exist as on date whether the same shall be applicable or the same shall be		Bidder needs information for proper estimation	In case of such states wherein State Government guidelines exist as on date, the State Government guidelines shall prevail over the guidelines dated 14/06/2024 issued by Ministry of Power (MoP), Gol.

**Additional clarifications dated 22.07.2024 on RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

S No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		<p>16/07/2020 and 27/06/2023 issued by MoP regarding Right of Way (RoW) for transmission lines.</p> <p>As per said guidelines the states/ UTs may adopt these guidelines in their entirety or issue their own modified guidelines. In the absence of State Government guidelines, these guidelines issued by the Central Government shall apply for determining compensation.</p>	<p>ceased and until they issue their own modified guidelines, the guidelines dated 14/06/2024 issued by MoP, Gol shall be applicable.</p> <p>Kindly confirm as the same is required for appropriate estimation of RoW costs etc. for under bidding projects</p>			
6.	RFP for Selection of Bidder as Transmission Service Provider	<p>Clause 1.2 Extension at Angul (POWERGRID) S/s</p> <p>□ 765kV line bays (along with space for future switchable line reactor): 2 nos.</p>	<p>BPC is requested to furnish the following documents for the extension work at Angul:</p> <ol style="list-style-type: none"> <li>1. Soil Investigation report</li> <li>2. Earthmat layout</li> <li>3. Fire hydrant system layout</li> </ol>		Bidder needs the information for proper estimation	<p>Earthmat layout has been provided along with RfP.</p> <p>Soil investigation is in the scope of bidders.</p> <p>For other details, bidder is advised to visit S/s site.</p>

**Additional clarifications dated 22.07.2024 on RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

S No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
		[for termination of Angul (POWERGRID) – Paradeep 765kV D/c line along with 765kV, 1x330MVar switchable line reactor at Paradeep end in both circuits]				
7.	Additional clarifications dated 14.06.2024 Sr. No. 2	<p><b>Bidder’s Query:</b> kindly consider extending the current project SCOD deadline of by at least 36 months from SPV transfer</p> <p><b>BPC Response:</b> Completion schedule of Eastern Region Expansion SchemeXXXIX (ERES – XXXIX) Transmission Scheme is 30-06-2026.</p>	<p>BPC is requested that scheduled COD of the project may be relooked and construction timeframe of the projects suitably amended in numbers of months from effective date of contract instead of a fixed date.</p> <p>In view of the same, BPC is requested to define execution period as effective Date (as defined in TSA) + Period of execution in months instead of fixed.</p>		Bidder needs the information for proper estimation	The project completion schedule has been arrived at as per system requirement.
8.	RFP for Selection of Bidder as Transmission Service Provider	<b>Scope of work</b>	As per our site survey, we understand that the space allocated for bay extension work at Angul PGCIL is an afforestation site which is		Clarification required for better understanding of scope and cost estimation.	Regarding space at Angul (POWERGRID) 765/400 kV S/s for the scope mentioned in RfP, following may be noted:

**Additional clarifications dated 22.07.2024 on RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

S No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rationale for the Clarification or Amendment	RECPDCL Response
	for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		<p>having a massive plantation of approx. ~20,000 trees which have been planted by NHAI Sambalpur, TTPS Talcher, RWSS, etc.</p> <p>We understand that tree cutting permission and site clearance activities will be undertaken by PGCIL with all other necessary approvals and PGCIL will hand over the proposed space for bay extension to the new TSP free of cost and hindrance free.</p> <p>Moreover, as per our site due diligence, the allocated space for bay extension comes under forest department. So, it will be the responsibility of the existing substation owner to take forest clearance, Compensatory afforestation in lieu of the land (if any), and any payment needed for such approval. Please confirm.</p> <p>Also, it is understood that forest clearance of the land will take around 15 - 18 months and till then no bay extension work can be initiated on the land</p>			<ol style="list-style-type: none"> <li>1. The land is encumbrance free and within the POWERGRID campus.</li> <li>2. The area demarcated for bay extension does not come under the forest department and the landowner is POWERGRID.</li> <li>3. The clearance of tree cutting from forest department as per extant rule of Odisha will be obtained by POWERGRID. However, tree cutting/cleaning the area etc. shall be in the scope of the successful bidder for the bay extension and expenditure towards the same shall be borne by new TSP.</li> </ol>

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			from zero date or SCOD. Keeping in view of the inevitable timelines, request you to suitably extend the timelines for execution of the project by at least 36 months from the effective date.			
9.	Survey Report	-	<p>As per the BPC survey Report, approx. 39.5 kms. route of Angul (POWERGRID) - Gopalpur 765 kV D/c transmission line is falling in the Mahanadi Elephant Reserve/Corridor.</p> <p>As per MoEF guidelines ref. no. F.No.7-25/2012-FC dated 19.11.2014, <i>“In case of transmission line passing through Elephant reserves/corridors, additional clearance of atleast 6 mtr. Shall be provided over and above minimum clearance (as stipulated under CEA measures related to Safety and Electricity Supply Regulations’ 2010”) above the ground from</i></p>		<p>As per recommendation of forest department additional height it to be provided in towers to safe guard electrocution of the elephant.</p> <p>Also, as per the latest information, on Feb’2023. Supreme Court have asked the Union government reg. recommendation made in the 2010 ‘Gajah Report’ on conferring statutory status to a proposed body National Elephant</p>	<p>The survey report is already issued to the bidders with all relevant details.</p> <p>However, bidder shall finalize the route after their detailed survey considering the requirement of RFP and CEA regulations.</p> <p>Bidder may visit the site and acquaint themselves with the site conditions. Please also refer Clause no 2.5.7 of the RfP Document.</p>

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			<p><i>the lowest conductor of the transmission lines.”</i></p> <p><b>Please confirm whether additional 6 m ground clearance is to be provided over existing 18 m Ground clearance for 765kV line.</b></p>		Conservation Authority (NECA) in order to ensure the preservation.	
10.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	Annexure C (Specific Technical Requirements for Transmission Lines) - C1.0	We understand Connectivity of voice and data will be provisioned by OPTCL or PGCIL nearby station. TSP will ensure SCADA data and voice is made available at Gopalpur OPTCL and PGCIL Angul station from where it will be taken to SLDC/ RLDC/Backup SLDC over PGCIL/OPTCL network. Please confirm.		Clarification required for better understanding of scope and cost estimation.	Requirement of RfP in this regard is amply clear and shall be followed.
11.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as	Annexure C (Specific Technical Requirements for Transmission Lines) C.3	We understand Connectivity of PMU to PDC will be provisioned from OPTCL or PGCIL nearby station. TSP will ensure PMU data is made available at Gopalpur OPTCL and PGCIL		Clarification required for better understanding of scope and cost estimation.	Requirement of RfP in this regard is amply clear and shall be followed.

**Additional clarifications dated 22.07.2024 on RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

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	Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		Angul station from where it will be taken to SLDC/ RLDC/Backup SLDC over PGCIL/OPTCL network. Please confirm.			
12.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	Annexure C (Specific Technical Requirements for Transmission Lines) B.5	We understand that the existing SCADA system at 765kV S/s at Anugul S/s will be of Siemens which would be having sufficient hardware , software & tag capacity to integrate the new 2 nos. 765kV Bays . TSP will consider the integration services of SCADA for the same. Kindly confirm TSP understanding is correct.		Clarification required for better understanding of scope and cost estimation.	Bidder shall consider all hardware, software and tag capacity etc. for the bays under present scope.  Bidder is also advised to visit the site.
13.	RFP for Selection of Bidder as Transmission Service Provider	Annexure C (Specific Technical Requirements for Transmission Lines) B.2.6	We understand the SCADA system at 765kV S/s at Angul is already integrated , communicating & providing the		Clarification required for better understanding of	The SCADA system at 765 kV S/s at Angul is already integrated, communicating and providing the real -time data to SLDC/RLDC.

**Additional clarifications dated 22.07.2024 on RFP documents for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission system for “Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)” through tariff based competitive bidding process**

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	for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		real-time data to SLDC/RLDC. The same communication channel for the new 765kV bays real-time data transfer. Kindly confirm TSP understanding is correct.		scope and cost estimation.	However, for real time data transfer of new 765 kV bays at Angul with the same SCADA communication channel at 765 kV S/s, Bidder is advised to visit S/s site.

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1.	RFP document	<p>Clause no. 1.2 of Section 1 of RFP,</p> <p>Scope of the Transmission Scheme: 4.0 Gopalpur – Gopalpur (OPTCL) 400 kV D/C(Quad) line@</p> <p>(i) @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL’s input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.</p> <p>.....</p> <p>OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/C(Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays</p>	<p>Confirm whether the land shall be provided on lease basis or on free of cost. If on lease basis, kindly provide the charges.</p> <p>What is the timeline for handling over of land for construction.</p> <p>We understand that levelled land shall be by OPTCL. Kindly confirm.</p> <p>O&amp;M of these bays (2 line bays for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/C(Quad) line and other 2 bays of the dias) at Gopalpur (OPTCL) substation are in the scope of TSP or OPTCL. Kindly confirm.</p>		<p>Bidder needs information for clarity and proper estimation</p>	<p>Yes, the land shall be provided free of cost.</p> <p>However, successful Bidder/ TSP to coordinate with OPTCL during execution stage for requisite further information.</p> <p>Land shall be provided as and where basis.</p> <p>O&amp;M of these 2 Bays for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/C (Quad) line are in the scope of TSP. Other 2 bays (OPTCL system) are to be maintained by OPTCL.</p> <p>Further, CEA’s “Operation and Maintenance (O&amp;M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP” issued by CEA vide</p>

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		shall be established.				its letter No. I/28514/2023 dated 22.06.2023 shall be followed. Copy of the guideline is available on CEA website at following link:  <a href="https://cea.nic.in/wp-content/uploads/pse_td/2023/06/om_guidelines.pdf">https://cea.nic.in/wp-content/uploads/pse_td/2023/06/om_guidelines.pdf</a>
2.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s • 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/C(Quad) line] + # 2 nos. for diameter completion	BPC is requested to provide following documents for the extension work at Gopalpur (OPTCL) SS: 1. Earthmat layout 2. Soil investigation report 3. Cable trench layout 4. Fire hydrant layout 5. GA drawing with scope of work clearly marked on it 6. Coordinates of take-off gantry		Bidder needs the information for proper estimation	Substation Layout drawing shall be shared at later stage.  The requirements as sought are of site situational basis, hence after finalization of site and the then site situation, documents may be provided with due departmental procedures.  Further, please refer clause B.5 of RFP and subsequent amendments.
3.	RFP for Selection	Clause 1.2	BPC is requested to		Bidder needs the	

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
	of Bidder as Transmission Service Provider	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s • 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/C(Quad) line] + # 2 nos. for diameter completion	furnish the following data for the extension work at Gopalpur:  1. Availability of space in existing Control room for extension work  2. Availability of CU and PU for bays under present scope of work  3. Sufficiency of existing fire hydrant system for extension  4. Availability of Feeders in existing ACDB and DCDB panels  5. Sufficiency of existing battery and battery charger for extension work  6. Availability of AC & DC Feeders in LT boards.		information for proper estimation	1. Yes, Space is available in existing control room for extension work.  2, 4, 5 and 6: To be provided subsequently after confirmation of schematic diagram and in consultation with related engineering team. E&Q cell of OPTCL may be consulted if required.  However, the provision of these auxiliary systems (hydrant, ACDB/ DCDB, Battery/Battery charger and AC/DC feeders in LT boards), being the spare item/elements as per the existing OPTCL norm, shall be available.  But integration and extension from the existing common system shall be in the scope of TSP.  3. Yes. However, the

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
						extension of fire hydrant system and integration to the existing system for these bay extensions shall be in the scope of the TSP.
4.	RFP for Selection of Bidder as Transmission Service Provider	<p>Clause 1.2 Scope of Work</p> <p>Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>• 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/C(Quad) line]</li> <li>+ # 2 nos. for diameter completion</li> </ul>	BPC is requested to confirm if space is available in the existing GIS hall or New GIS hall is required for the current scope of work.		Bidder needs the information for proper estimation	Yes, Space in the existing GIS hall is available for the current scope of work.
5.	RFP for Selection of Bidder as Transmission Service Provider	<p>Clause 1.2 Scope of Work</p> <p>#Extension at Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>□ 400kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/C(Quad) line]</li> </ul>	We understand TSP has to follow RFP requirement only. Existing station (at Gopalpur (OPTCL) owner practice and requirement is not binding on TSP.		Bidder needs the information for proper estimation	Refer clause B.4 (b) of RfP.
6.	RFP for Selection of Bidder as Transmission Service Provider	<p>Clause 1.2</p> <p>Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s</p>	We understand that the mentioned space for the execution of present scope of work for the current project at Gopalpur		Bidder needs the information for proper estimation	Yes, the space shall be provided free of cost.

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		<ul style="list-style-type: none"> <li>400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/C(Quad) line]</li> <li>+ # 2 nos. for diameter completion</li> </ul>	<p>(OPTCL) GIS S/s will be provided free of cost to the TSP.</p> <p>Please confirm.</p>			
7.	RFP for Selection of Bidder as Transmission Service Provider	<p>Clause 1.2</p> <p>ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/C(Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future. GIS bays of these diameters shall be identified in future.</p>	<p>BPC is requested to mention if the future bays are to be used as line bays, ICT bays or Bus Reactor Bays.</p>		<p>Bidder needs the information for proper estimation</p>	<p>To be decided by OPTCL at later stage regarding the utilisation and future bays.</p>
8.	RFP for Selection of Bidder as Transmission Service Provider	<p>B.2.0 Substation Equipment and facilities (Voltage level as applicable):</p> <p>Bus Bar Rating of 400kV Bus at Gopalpur (OPTCL) S/S</p>	<p>BPC is requested to share the bus bar current rating of the 400kV GIS Bus at Gopalpur (OPTCL) S/S.</p>		<p>Bidder needs the information for proper estimation</p>	<p>Generally 4000 A, but as per schematic requirement, the actual current rating may be different.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
9.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 143 Sr. no. B.2.5 (d)	For existing substations, the existing bus bar protection shall be augmented as per requirement.	It is requested to provide make and model of existing 400kV Bus bar protection scheme at Gopalpur (OPTCL) substation.  Further, in case existing 400kV Bus Bar Protection scheme is centralized type, it is also requested to confirm availability of ports/CT inputs, in existing 400kV Bus bar protection scheme for the 400kV bays under present scope of work.		Bidder needs information for proper estimation.	Not yet decided. The TSP may be in touch with OPTCL regarding the provision for busbar protection scheme.
10.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 145 Sr. no. B.3.1	For substation extensions, existing facilities shall be augmented as required.	It is requested to provide number of spare AC/DC feeders in existing ACDB/DCDB at Gopalpur (OPTCL) that can be used for present scope of work.		Bidder needs information for proper estimation.	Cannot be ascertained at this point of time as the procurement activities have not been initiated.
11.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 150	EXTENSION OF EXISTING SUBSTATION	It is requested to provide Layout Plan/Section and SLD drawing of 765kV Angul (PG) and 400kV Gopalpur (OPTCL) substations showing bay allocation and line termination arrangement		Bidder needs information for proper estimation.	<b>400kV Gopalpur (OPTCL) substation:</b>  The tentative SLD for the Gopalpur (OPTCL) Substation is enclosed at <b>Appendix-B.</b> Other drawings are yet to

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	Sr. no. B.5		for the present scope of work.			be finalized by OPTCL. The same may be availed from OPTCL on finalization.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
12.	RFP & TSA	<p>Schedule 1, TSA, Project Description and Scope of Project:</p> <p><i>Note:</i>  <i>c. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/C(Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.</i></p> <p><i>d. POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line</i></p>	<p>Construction of elements by the Selected Bidder would depend on provision of space by PGCIL at Angul (PG) S/s &amp; OPTCL at Gopalpur (OPTCL). Therefore, same would be out of control of the Selected TSP.</p> <p>1. Whether there is any timeline within which PGCIL &amp; OPTCL need to provide space to Selected Bidder?</p> <p>2. BPC to please clarify under what binding arrangement or agreement is place with the PGCIL &amp; OPTCL regarding obligation to provide space</p>		Bidder needs the information for proper estimation	<p><b>Gopalpur (OPTCL) 400/220 kV GIS S/s</b></p> <p>1. TSP to coordinate with existing S/s owner during execution stage.</p> <p>2 and 3</p> <p>Provisions of the RfP Document is amply clear in this regard and shall prevail.</p> <p>However, at present no any such document is available with the BPC. TSP is requested to be in touch with OPTCL.</p>



Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
			<p><b>c.</b> Under which documents or transactions OPTCL shall be obligated to provide space to the selected bidder?</p> <p><b>d.</b> BPC to share the copy of the documents under which OPTCL is obligated to provide space to the selected bidder.</p> <p><b>e.</b> In case of any delay on the part of OPTCL in providing space to the Selected Bidder, whether the extension of SCOD and reimbursement of the cost will be provided to the selected bidder?</p> <p><b>f.</b> Whether the delays on the part of OPTCL in providing the space will cover under force majeure?</p>			Document is amply clear in this regard and shall prevail.

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1.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<p><b>B.1.2 Switching Scheme</b></p> <p>The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:</p> <table border="1" style="width: 100%; border-collapse: collapse; text-align: center;"> <thead> <tr> <th>Substation</th> <th>765 kV side</th> <th>400 kV side</th> <th>220 kV side (Future)</th> </tr> </thead> <tbody> <tr> <td>765/400 kV Gopalpur (GIS) s/s</td> <td>One and half breaker</td> <td>One and half breaker</td> <td>Double Main</td> </tr> <tr> <td>Extn. of 765 kV Angul S/s (AIS)</td> <td>One and half breaker</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Substation	765 kV side	400 kV side	220 kV side (Future)	765/400 kV Gopalpur (GIS) s/s	One and half breaker	One and half breaker	Double Main	Extn. of 765 kV Angul S/s (AIS)	One and half breaker	--	--	<p>As per TSP understanding 220kV level (future) will be GIS type at proposed Gopalpur substation.</p> <p>Kindly confirm TSP understanding is correct.</p>		Clarification required for better understanding of scope and cost estimation.	Yes
Substation	765 kV side	400 kV side	220 kV side (Future)															
765/400 kV Gopalpur (GIS) s/s	One and half breaker	One and half breaker	Double Main															
Extn. of 765 kV Angul S/s (AIS)	One and half breaker	--	--															
2.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<p><b>B.1.2 Switching Scheme</b></p> <p><i>(vi) Ext. Of Gopalpur (OPTCL) s/s: 2 Nos. full diameter i.e. 4 Nos. of GIS bays shall be implemented in the scheme for requirement of 2 Nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters under present scope of work with space provision for future switchable line reactor and GIS duct outside GIS building</i></p>	<p>As per SLD, Dia Configuration at Gopalpur (OPTCL) GIS is Line (without SLR) – Tie – ICT.</p> <p>Kindly confirm TSP understanding is correct.</p>		Clarification required for better understanding of scope and cost estimation.	<p>Tentative SLD for the Gopalpur (OPTCL) Substation is enclosed at <b>Appendix-B</b>.</p> <p>Further, the type of feeder which shall be in the same bay of the extended bays (line) after tie bay is to be decided by OPTCL at a later stage.</p>												

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		<p><i>as mentioned above.</i></p> <p><i>Utilisation of other 2 Nos.</i></p> <p><i>GIS bays of these diameters shall be identified in future.</i></p>				
3.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	<p>As per TSP understanding, necessary process I/O and license for SAS integration are available for future bay extension work.</p> <p>Kindly confirm TSP understanding is correct for 765kV Angul AIS substation &amp; 400kV Gopalpur GIS substation.</p>		Clarification required for better understanding of scope and cost estimation.	<p>Yes.</p> <p>TSP is advised to be in touch with OPTCL for further clarifications.</p>
4.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern	<b>B.5 Extension of Existing Substation</b>	<p>a) As per TSP understanding interface module for extension of existing GIS is available in 400kV GIS at Gopalpur (OPTCL) Substation. Kindly confirm whether TSP understanding is correct.</p>		Clarification required for better understanding of scope and cost estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response								
	Region Expansion Scheme - XXXIX (ERES-XXXIX)		b) Also provide the following data for better understanding of scope of work:- <ul style="list-style-type: none"> <li>• Make and type of existing 400 KV GIS</li> </ul> Gas SLD of existing GIS Plan and Section of GIS hall											
5.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.5 EXTENSION OF EXISTING SUBSTATION</b>	Kindly provide make and model/type for following substation system at 400 KV OPTCL substation: <table border="1" style="margin-left: 20px;"> <tr> <td style="width: 150px;">System</td> <td>Make &amp; Type/Model</td> </tr> <tr> <td>Bus Bar Protection</td> <td></td> </tr> <tr> <td>Visual Monitoring System</td> <td></td> </tr> <tr> <td>Substation Automation</td> <td></td> </tr> </table>	System	Make & Type/Model	Bus Bar Protection		Visual Monitoring System		Substation Automation			Clarification required for better understanding of scope and cost estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL
System	Make & Type/Model													
Bus Bar Protection														
Visual Monitoring System														
Substation Automation														

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required				Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
			System						
6.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>C.5.0 Extension works at Gopalpur (OPTCL)GIS 400/220kV S/s:- 2 Nos. 400 kV GIS line bays</b>	Kindly provide the technical details of existing FOTE at following substations for 765kV line work:					Clarification required for better understanding of scope and cost estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL
			Station	Make & Type/ Model	Capacity of Existing equipment s	Availability of Spare parts			
			400kV Gopalpur (OPTCL) GIS S/s						
7.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION	In existing substations with Substation automation system (SAS), augmentation of existing SAS shall be done	It is requested to provide make and model of existing Substation Automation System at 400kV Gopalpur (OPTCL)					Bidder needs information for proper estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	Page 144 Sr. no. B.2.6 (a)	for bays under present scope.	substation.			
8.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 150 Sr. no. B.5	EXTENSION OF EXISTING SUBSTATION	It is requested to provide spacing of existing Earthmat at 400kV Gopalpur (OPTCL) substation.  Further, it is requested to provide Existing Earth mat layout drawing of 400kV Gopalpur (OPTCL) substation.sss		Bidder needs information for proper estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL
9.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 148 Sr. no. B.3.8	At existing substations, the visual monitoring system if available shall be augmented as per existing or better specification as required.	It is requested to provide make and model of Existing Visual Monitoring System at 400kV Gopalpur (OPTCL) substation.  Further Bidder understands that existing capacity of SAS system is sufficient to cater load under present scope.		Bidder needs information for proper estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL
10.	RfP Document SPECIFIC TECHNICAL	GIS (Gas Insulated Switchgear) shall be Indoor	Bidder understands that Suitable end piece/extension/interface			It is under finalization and to be provided subsequently after

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	REQUIREMENTS FOR SUBSTATION  Page 136 Sr. no. B.2.3	type in accordance to IEC: 62271-203	module in existing 400 kV GIS Bus bars for extension of GIS is already available in Existing GIS at 400kV Gopalpur (OPTCL) substation. Kindly confirm.			checking in Engg. and Quality Cell of OPTCL
11.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2  Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s • 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line] + # 2 nos. for diameter completion	BPC is requested to furnish the following data for the extension work at Gopalpur:  1. Availability of space in existing Control room for extension work  2. Availability of CU and PU for bays under present scope of work  3. Sufficiency of existing fire hydrant system for extension  4. Availability of Feeders in existing ACDB and DCDB panels  5. Sufficiency of existing battery and battery		Bidder needs the information for proper estimation	(1) Yes, Space in existing Control room for extension work is available.  (2) It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL.  (3) Yes, however the TSP is advised to keep separate provision of FFE/FH system for reliability and redundancy purpose.  (4),(5),(6): TSP is

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
			charger for extension work 6. Availability of AC & DC Feeders in LT boards.			advised to keep separate provisions dedicated for the extended bays.
12.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Scope of Work Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s • 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line] + # 2 nos. for diameter completion	BPC is requested to provide the following details for extension work at Gopalpur GIS:  1. Make and Model of GIS (existing)  2. Please confirm the availability of extension module at Gopalpur GIS.  Make model and dimensions of extension/interface modules.		Bidder needs the information for proper estimation	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL
13.	RFP for Selection of Bidder as Transmission Service Provider	Section-1: Clause 1.2 Scope of work Note: @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's	As per the said clause <i>Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. We request BPC to provide status of award of Gopalpur (OPTCL) projects along with expected SCOD date</i>		Bidder needs the information for proper estimation	Statutory clearance is in progress. Expected SCOD date of this project is 31.12.2027.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification Amendment	RECPDCL Response								
		<i>input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.400/220kV (Intra-state) substations at Gopalpur.</i>	<i>of this project.</i>											
14.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>C.5.0 Extension works at Gopalpur (OPTCL)GIS 400/220kV S/s:- 2 Nos. 400 kV GIS line bays</b>	Kindly provide the technical details of existing FOTE at following substations for 400kV line work:  <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">Station</th> <th style="text-align: center;">Make &amp; Type/Model</th> <th style="text-align: center;">Capacity of Existing equipment</th> <th style="text-align: center;">Availability of Spare parts</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">400kV Gopalpur (OPT</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Station	Make & Type/Model	Capacity of Existing equipment	Availability of Spare parts	400kV Gopalpur (OPT					Clarification required for better understanding of scope and cost estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL
Station	Make & Type/Model	Capacity of Existing equipment	Availability of Spare parts											
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Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
			CL) GIS S/s			
15.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	Annexure C (Specific Technical Requirements for Transmission Lines) B.5	Kindly share the existing SCADA details viz. Make , Model and Version of the SCADA and SAS architecture of 400kV Gopalpur (OPTCL).		Clarification required for better understanding of scope and cost estimation.	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL
16.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX	Scope of Work	As per our internal due diligence, the location of the proposed Gopalpur OPTCL substation lies in the color coded zone map of Behrampore Airport where the permissible limit of any structural height is restricted to ~22 metres. Considering the height of 400 kV d/c tower is between 40 - 45 m, it is		Clarification required for better understanding of scope and cost estimation.	The GPS Co-ordinate of location of the Gopalpur (OPTCL) substation, as provided by OPTCL is as below:  <b>Latitude:</b> 19°21'2.10"N <b>Longitude:</b> 84°51'7.54"E  The above coordinate is tentative. The

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	(ERES-XXXIX)		<p>not feasible to construct the towers near the gantry of the proposed substation.</p> <p>Therefore, OPTCL is requested to shift its proposed substation location suitably in the north-west direction (at least ~400 m).</p>			<p>statutory clearance of the land is under progress and shall be confirmed after finalization and possession of the land.</p> <p>The above coordinate of location of the Gopalpur (OPTCL) substation are only for the purpose of facilitating Bidders to locate the substation and the same should not be considered as the point of termination of transmission line. For exact point of termination of transmission line, the Bidder shall have to coordinate with OPTCL for inter-connection facility.</p>
17.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Scope of Work: Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s	As per the site visit assessment, it is understood that there is no progress on		Bidder needs the information for proper estimation	Statutory clearance is in progress. Expected SCOD date of this project is 31.12.2027.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response									
			<p>construction of New Gopalpur (OPTCL) substation. Hence, BPC is requested to provide following:</p> <p style="padding-left: 40px;">i. Status of Gopalpur (OPTCL) GIS substation, SCOD date fixed by OPTCL for Gopalpur (OPTCL) substation.</p>												
18.	Clause 1.2, Section-1, RFP	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">S. N.</th> <th style="text-align: center;">Scope of the Transmissi on Scheme</th> <th style="text-align: center;">Scheduled COD in months from Effective Date</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">1.</td> <td>Establishm ent of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha .....</td> <td style="text-align: center;">30.06.2026</td> </tr> <tr> <td style="text-align: center;">4.</td> <td>Gopalpur – Gopalpur (OPTCL) 400 kV D/c</td> <td></td> </tr> </tbody> </table>	S. N.	Scope of the Transmissi on Scheme	Scheduled COD in months from Effective Date	1.	Establishm ent of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha .....	30.06.2026	4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c		<p>BPC is kindly requested to provide the followings:</p> <p>(i) The award status of Gopalpur (OPTCL) substation as on date.</p> <p>(ii) The completion schedule of Gopalpur (OPTCL) Substation.</p>		Bidder needs information for proper estimation	Statutory clearance is in progress. Expected SCOD date of this project is 31.12.2027.
S. N.	Scope of the Transmissi on Scheme	Scheduled COD in months from Effective Date													
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		<p>Note:</p> <p>i. @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.</p> <p>ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos.</p>										

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the Clarification or Amendment	RECPDCL Response
		<p>full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.</p> <p>iii. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV</p>				

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response						
		D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.										
19.	RFP for Selection of Bidder as Transmission Service Provider	<p>Clause 1.2 Scope of Work</p> <p>Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>• 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</li> </ul> <p>+ #</p> <p>2 nos. for diameter completion</p>	<p>BPC is requested to provided the following details for extension work at Gopalpur GIS:</p> <ol style="list-style-type: none"> <li>3. Make and Model of GIS (existing)</li> <li>4. Please confirm the availability of extension module at Gopalpur GIS.</li> </ol> <p>Make model and dimensions of extension/interface modules</p>		Bidder needs the information for proper estimation	It is under finalization and to be provided subsequently after checking in Engg. and Quality Cell of OPTCL.						
20.	<b>Clause 1.2, Section-1, RFP</b>	<table border="1"> <thead> <tr> <th>Sl. No.</th> <th>Scope of the Transmission Scheme</th> <th>Scheduled COD in months from</th> </tr> </thead> <tbody> <tr> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from				Scope of work under the subject project involves extension of 400kV Gopalpur (OPTCL) substation and construction of Gopalpur – Gopalpur (OPTCL) 400 kV		For preparation of bid.	Statutory clearance is in progress. Expected SCOD date of this project is 31.12.2027. Further, please refer <b>Amendment X dated 22.08.2024</b> regarding revision in SCOD of the
Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from										

Sl. No.	Name of the document	Clause No. and Existing provision	Effective Date	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
				D/c (Quad) line.  As per available information, it is understood that OPTCL have not started the construction activities for Gopalpur GIS SS. Considering the status of works at Gopalpur (OPTCL) GIS S/s, completion of the project within given timelines may not be possible.			transmission scheme.  Provisions of TSA are amply clear regarding deemed COD of the project.
		1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha  .....	30.06.2026			
			.....				
		4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line®				
		5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s				
				In line with clause 4.6 of TSA, we understand that if commissioning of Gopalpur (OPTCL) GIS S/s got delayed and TSP complete the scope of work (except GIS bays at Gopalpur (OPTCL S/s) as per TSA, the project will be considered as deemed COD and TSP will be entitled to all the benefits envisaged under the TSA. Kindly confirm our understanding.			

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		<p>.....</p> <p><b>Note:</b></p> <p>i. @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.400/220kV (Intra-state) substations at Gopalpur.</p> <p>ii. #The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur</p>				

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		<p><i>(OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.</i></p> <p><i>OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.</i></p>										
21.	Clause 1.2, Section-1, RFP	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="text-align: center;">S. N.</th> <th style="text-align: center;">Scope of the Transmission Scheme</th> <th style="text-align: center;">Scheduled COD in months from Effective Date</th> </tr> <tr> <td style="text-align: center;">1.</td> <td>Establishment of new 765/400 kV, 2x1500 MVA GIS substation at</td> <td style="text-align: center;">30.06.2026</td> </tr> </table>	S. N.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date	1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at	30.06.2026	<p>It is requested to kindly inform that when the space for 400kV bay extension at Gopalpur Substation (to be constructed by OPTCL) shall be provided by OPTCL to TSP.</p> <p>In case no clarity is provided, it is presumed</p>		<p>Bidder needs information for proper estimation</p>	<p>Statutory clearance is in progress. Expected SCOD date of this project is 31.12.2027.</p> <p>Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.</p>
S. N.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date										
1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at	30.06.2026										

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		<p>Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.</p> <p>vi. OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV</p>				

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		GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.				
22.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.3.2 Fire Fighting System</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	We understand that no separate FF system is envisaged under present scope of work. TSP extend the existing system only.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation & 400kV Gopalpur GIS substation.		Clarification required for understanding RFP requirement and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  The provision for FFE system to be made available by the TSP for the bay extensions separately.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
23.	RFP for Selection of Bidder as Transmission Service Provider for	<b>B.3.2 Fire Fighting System</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS	We understand that there are adequate provisions in the existing Fire Fighting Annunciation Panel to		Clarification required for understanding RFP requirement and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  Shall be communicated in due course of time

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	Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	substation	integrate the Fire alarm signals associated with the bay extension work.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation & 400kV Gopalpur GIS substation.			after finalization of the S/s schematic drawings. TSP is advised to have provision of separate fire annunciation system for the bay extensions.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
24.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.3.6 GIS Hall</b> For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under present scope.	In case of Extension of existing 400 KV GIS hall at Gopalpur (OPTCL) substation, CRP panels for proposed bay extension will be placed in existing CRP room. Substation owner to provide space for same.  Please confirm.			Yes
25.	RFP for Selection of Bidder as Transmission	<b>B.3.6 GIS Hall</b> For extension of existing GIS, existing facilities shall be suitably	Please confirm the availability of space in existing 400kV GIS hall at		Clarification required for better understanding of scope	Yes, OPTCL shall ensure availability of space for extension

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	augmented/ extended for GIS equipment under present scope.	Gopalpur (OPTCL) Substation for constructing two dias, which is under TSP scope of work. Also mark the scope of TSP in electrical substation layout for better understanding.  Alternatively, kindly indicate space for extending existing 400kV GIS hall or space for new GIS 400kV building near existing 400kV GIS hall.		and cost estimation.	works covered under present scope of work at Gopalpur (OPTCL) Substation.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
26.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.3.6 GIS Hall</b> For extension of existing GIS, existing facilities shall be suitably augmented/ extended for GIS equipment under present scope.	In case of Extension of existing 400kV GIS hall at Gopalpur (OPTCL) substation, existing EOT Crane in GIS hall will be utilised for erection & Maintenance of proposed 400kV GIS extension work.  Kindly Confirm		Clarification required for better understanding of scope and cost estimation.	The EOT crane arrangement for erection as well as maintenance shall be arranged by TSP.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
27.	RFP for Selection of Bidder as	<b>B.3.6 GIS Hall</b> For extension of existing GIS, existing facilities shall be suitably	In case of Extension of existing 400kV GIS hall at Gopalpur (OPTCL)		Clarification required for better	TSP is advised to arrange separate Air Handling Unit (AHU) for

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	augmented/ extended for GIS equipment under present scope.	substation, existing AHU to be utilised for execution of present scope of work by TSP.  Please confirm.		understanding of scope and cost estimation.	extension bays.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
28.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	No Drain, Cable trench, Internal Road, fencing considered in present scope of work.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation & 400kV Gopalpur GIS substation.		Clarification required for understanding RFP requirement and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  These should be considered by the TSP as per the site condition and requirement.
29.	RFP for Selection of Bidder as Transmission Service Provider for	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS	As per TSP understanding, necessary I/O ports are available in existing Busbar protection		Clarification required for better understanding of scope and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  Shall be communicated after finalization of the

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	substation	for future bay extension work.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation & 400kV Gopalpur GIS substation.			drawings.
30.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	<b>B.4 General Facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	TSP understand that only relay co-ordination updating is in the scope of TSP. Any kind of hardware upgradation in existing protection system shall be in existing owner scope.  Kindly confirm TSP understanding is correct for 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation		Clarification required for better understanding of scope and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  Yes, arrangement for any auxiliary hardware, if required during relay coordination process, shall be arranged by the TSP.
31.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission	<b>B.5 Extension of Existing Substation</b>	<b>765 kV Angul AIS substation</b>  Please provide following drawings related to existing substation:		Clarification required for better understanding of scope and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  Only tentative SLD for the Gopalpur (OPTCL) Substation is available and enclosed at

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		<ul style="list-style-type: none"> <li>• Earth mat Layout</li> <li>• Cable Trench Layout</li> <li>• SAS Architecture Drawings</li> <li>• Busbar Protection drawing</li> <li>• DSLP Layout</li> <li>• Soil investigation report</li> <li>• ERT Report</li> <li>• Contour Survey</li> </ul> <p><b>400 kV Gopalpur GIS substation</b></p> <p>Please provide following drawings related to existing substation:</p> <ul style="list-style-type: none"> <li>• Substation Layout</li> <li>• Earth mat Layout</li> <li>• Cable trench Layout</li> <li>• SAS Architecture Drawings</li> <li>• Busbar Protection drawing</li> <li>• DSLP Layout</li> <li>• Soil investigation report</li> <li>• ERT Report</li> </ul>			<p><b>Appendix-B.</b></p> <p>Other drawings are yet to be finalized by OPTCL. The same may be availed from OPTCL on finalization.</p> <p>Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
			<ul style="list-style-type: none"> <li>Contour Survey</li> </ul>			
32.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 150 Sr. no. B.5	EXTENSION OF EXISTING SUBSTATION	It is requested to provide Layout Plan/Section and SLD drawing of 765kV Angul (PG) and 400kV Gopalpur (OPTCL) substations showing bay allocation and line termination arrangement for the present scope of work.		Bidder needs information for proper estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  Only tentative SLD for the Gopalpur (OPTCL) Substation is available and enclosed at <b>Appendix-B.</b>  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
33.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)	Annexure C (Specific Technical Requirements for Transmission Lines) - C1.0	We understand Connectivity of voice and data will be provisioned by OPTCL or PGCIL nearby station. TSP will ensure SCADA data and voice is made available at Gopalpur OPTCL and PGCIL Angul station from where it will be taken to SLDC/ RLDC/Backup SLDC over PGCIL/OPTCL network. Please confirm.		Clarification required for better understanding of scope and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  Yes
34.	RFP for Selection of Bidder as	Annexure C (Specific Technical Requirements for Transmission Lines) C.3	We understand Connectivity of PMU to PDC will be provisioned		Clarification required for better	<b>400 kV Gopalpur (OPTCL) substation:</b>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX (ERES-XXXIX)		from OPTCL or PGCIL nearby station. TSP will ensure PMU data is made available at Gopalpur OPTCL and PGCIL Angul station from where it will be taken to SLDC/ RLDC/Backup SLDC over PGCIL/OPTCL network. Please confirm.		understanding of scope and cost estimation.	Yes
35.	RFP for Selection of Bidder as Transmission Service Provider	<p>Clause 1.2</p> <p>Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>• 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</li> </ul> <p>+ #</p> <p>2 nos. for diameter completion</p>	<p>BPC is requested to provide following documents for the extension work at Gopalpur (OPTCL) SS:</p> <ol style="list-style-type: none"> <li>1. Earthmat layout</li> <li>2. Soil investigation report</li> <li>3. Cable trench layout</li> <li>4. Fire hydrant layout</li> <li>5. GA drawing with scope of work clearly marked on it</li> <li>6. Coordinates of take-off gantry</li> </ol>		Bidder needs the information for proper estimation	<p>Only tentative SLD for the Gopalpur (OPTCL) Substation is available and enclosed at <b>Appendix-B.</b></p> <p>Refer clause B.5 of specific technical requirement of substation.</p> <p>Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response												
36.	RFP for Selection of Bidder as Transmission Service Provider	Clause 1.2 Scope of Work #Extension at Gopalpur (OPTCL) GIS S/s <input type="checkbox"/> 400kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line]	We understand TSP has to follow RFP requirement only. Existing station (at Gopalpur (OPTCL) owner practice and requirement is not binding on TSP.		Bidder needs the information for proper estimation	TSP shall follow the requirement of RfP.												
37.	Clause 1.2, Section-1, RFP	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>S. N.</th> <th>Scope of the Transmission Scheme</th> <th>Schedule COD in months from Effective Date</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha ... ..</td> <td>30.06.2026</td> </tr> <tr> <td>4.</td> <td>Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line<sup>@</sup></td> <td></td> </tr> <tr> <td>5.</td> <td>Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s</td> <td></td> </tr> </tbody> </table>	S. N.	Scope of the Transmission Scheme	Schedule COD in months from Effective Date	1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha ... ..	30.06.2026	4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line <sup>@</sup>		5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s		BPC is requested to confirm the followings: 1. In case there is change in coordinates of the Gopalpur (OPTCL) substation leading to change in BEE line length of transmission lines, the same shall be treated as change in law event for suitable compensation in tariff based on the ratio of actual BEE line length to line length as per the co-ordinates of Gopalpur (OPTCL) substation provided by the		Bidder needs information for proper estimation	1. The GPS Co-ordinate of location of the Gopalpur (OPTCL) sub-station, as provided by OPTCL is as below:  <b>Latitude:</b> 19°21'2.10"N <b>Longitude:</b> 84°51'7.54"E  The above coordinate is tentative. The statutory clearance of the land is under progress and shall be confirmed after finalization and possession of the land.  The above coordinate of location of the
S. N.	Scope of the Transmission Scheme	Schedule COD in months from Effective Date																
1.	Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha ... ..	30.06.2026																
4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line <sup>@</sup>																	
5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s																	

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
		<p>.....</p> <p>Note:</p> <p>i. @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur.</p> <p>.....</p> <p>OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.</p>	<p>BPC..</p> <p>2. The space for bays at Gopalpur (OPTCL) will be provided to TSP on an 'as-is, where-is' basis or if the land will be levelled prior to transfer.</p> <p>The owner of Gopalpur (OPTCL) being an intra state entity, whether O&amp;M charges to be paid by the TSP to utility of Gopalpur (OPTCL) be governed by CEA guidelines for O&amp;M charges vide its letter No. I/28514/2023 dated 22.06.2023.</p>			<p>Gopalpur (OPTCL) substation are only for the purpose of facilitating Bidders to locate the substation and the same should not be considered as the point of termination of transmission line. For exact point of termination of transmission line, the Bidder shall have to coordinate with OPTCL for inter-connection facility.</p> <p>2. The space for bays at Gopalpur (OPTCL) will be provided to TSP on an 'as-is, where-is' basis.</p> <p>O&amp;M of 2 Bays for Gopalpur-Gopalpur (OPTCL) 400 kV DC (Quad) lines to be maintained by TSP. Other 2 bays by OPTCL.</p>

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
						Further, CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023 shall be followed. Copy of the guideline is available on CEA website at following link:  <a href="https://cea.nic.in/wp-content/uploads/pse_td/2023/06/om_guidelines.pdf">https://cea.nic.in/wp-content/uploads/pse_td/2023/06/om_guidelines.pdf</a>
38.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern	<b>B.3.0 Substation support facilities</b> for bay extension work at 765 kV Angul AIS substation & 400 kV Gopalpur GIS substation	We understand that existing equipment such as DG Set, LT Transformer, Battery & Battery charger have sufficient capacity to cater the requirements of bay under present scope of work, hence no need to consider new DG Set, LT		Clarification required for understanding RFP requirement and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  TSP to keep the provision of separate DG set, LT Transformer, AC& DC systems etc. as required, dedicated for the extended portion of the bays.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	Region Expansion Scheme - XXXIX (ERES-XXXIX)		Transformer, Battery & Battery charger in the existing substations.  AC & DC Power Supply from existing substation facilities will be made available by substation owner. Power supply arrangement from identified spare feeders will be done by TSP.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation & 400kV Gopalpur GIS substation.			Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.
39.	RFP for Selection of Bidder as Transmission Service Provider for Selection of Bidder as Transmission Service Provider to establish Inter-State Transmission System for Eastern Region Expansion Scheme - XXXIX	<b>B.3.1 AC &amp; DC Supplies</b> for bay Extension work of Angul 765/400 kV AIS substation & 400 kV Gopalpur GIS substation	DC power supply for PLCC and FOTE system will be made available by Substation Owner. Power supply arrangement from identified spare feeders will be done by TSP.  Kindly confirm TSP understanding is correct for 765kV Angul AIS substation & 400kV Gopalpur GIS substation.		Clarification required for better understanding of scope and cost estimation.	<b>400 kV Gopalpur (OPTCL) substation:</b>  TSP to keep the provision of dedicated DCDB for the extended bays under present scope.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.

Sl. No.	Name of the document	Clause No. and Existing provision	Clarification required	Suggested text for the Amendment	Rational for the or Clarification Amendment	RECPDCL Response
	(ERES-XXXIX)					
40.	RfP Document SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION  Page 145 Sr. no. B.3.1	AC and DC power supplies	Bidder understands that existing Battery and Battery chargers (220VDC/110VDC and 48VDC) at 400kV Gopalpur (OPTCL) substation are sufficient to cater the load of the feeders under present scope of work.		Bidder needs information for proper estimation.	TSP to keep the provision of separate Battery, Battery charger, ACDC systems etc. as required, dedicated for the extended portion of the bays under present scope.  Further, successful bidder/ TSP to coordinate with OPTCL during execution stage.

**BEFORE THE HON'BLE CENTRAL ELECTRICITY  
REGULATORY COMMISSION, AT NEW DELHI**

**PETITION NO. \_\_/TL/2024**

**IN THE MATTER OF:**

Application under Section 14, 15, 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other Related Matters) Regulation, 2024 and any other amendments thereon issued from time to time by this Hon'ble Commission, if any, for grant of Transmission License to Eastern Region Expansion Scheme – XXXIX Power Transmission Limited.

**IN THE MATTER OF:**

ERES-XXXIX Power Transmission Limited ...Petitioner

**VERSUS**

Central Transmission Utility of India Limited & Ors. ...Respondents

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**THROUGH:**



**SAGUS LEGAL**

Advocates for Petitioner

ERES-XXXIX Power Transmission Limited

B-7/8, Ground Floor, Safdarjung Enclave,

New Delhi-110029

Email Id: [service@saguslegal.com](mailto:service@saguslegal.com)

Contact No. 011-46552925

**Place: New Delhi**

**Date: 21.11.2024**

# 571 Annexure P-22



भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केंद्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II

Power System Planning & Appraisal Division-II

सेवा में /To

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की बीसवीं बैठक के कार्यवृत्त - के सम्बन्ध में ।

Subject: Minutes of the 20<sup>th</sup> Meeting of National Committee on Transmission (NCT) – regarding.

महोदया (Madam) / महोदय (Sir),

The 20<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) was held on 25<sup>th</sup> June, 2024 at CEA, New Delhi. Minutes of the meeting are enclosed herewith.

भवदीय / Yours faithfully,

Signed by Bhagwan Sahay  
Bairwa

Date: 13-07-2024 19:08:07

(बी.एस. बैरवा / B.S. Bairwa)

मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव, एन.सी.टी. /  
Chief Engineer (I/C) & Member Secretary (NCT)

प्रतिलिपि / Copy to:

Joint Secretary (Trans), Ministry of Power, New Delhi-110001

# 572

## **List of Addresses:**

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power Systems), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Lalit Bohra, Joint Secretary Room no 602, Atal Akshay Urja Bhawan Opposite CGO Complex gate No. 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

## **Special Invitee**

Chief Engineer (PCD), CEA

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## Minutes of the 20<sup>th</sup> meeting of National Committee on Transmission (NCT)

The 20<sup>th</sup> meeting of NCT was held on 25<sup>th</sup> June, 2024 at CEA, New Delhi. List of participants is enclosed at **Annexure-I**. Agenda wise deliberations are given below.

### **1 Confirmation of the minutes of the 19<sup>th</sup> meeting of National Committee on Transmission.**

1.1 The minutes of the 19<sup>th</sup> meeting of NCT held on 29.04.2024 were issued vide CEA letter no CEA-PS-12-13/3/2019-PSPA-II dated 28.05.2024. No comments were received on the minutes.

1.2 Members confirmed the minutes.

### **2 Status of the transmission schemes noted/approved/recommended to MoP in the 18<sup>th</sup> meeting of NCT:**

2.1 Status of new transmission schemes approved/recommended:

Sr. No	Name of the Transmission Scheme	Noted/ Recommended/ Approved	Mode of Implementation	BPC	Award/ Gazette notification
1.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4 :3.5 GW): Part A	Recommended	TBCB	RECPDCL	Notified in Gazette by Ministry of Power on 14.06.2024
2.	Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4 :3.5 GW): Part B	Recommended	TBCB	RECPDCL	
3.	System strengthening at Koppal-II and Gadag-II for integration of RE generation projects	Recommended	TBCB	PFCCL	
4.	Transmission system strengthening to facilitate evacuation of power from Bhadla/Bikaner complex	Approved	TBCB	PFCCL	Notified in Gazette by CEA on 18.06.2024
5.	OPGW installation on existing 400 kV Kurukshetra - Malerkotla line	Approved		Not Applicable	CEA intimated to CTUIL on 28.05.2024. CTUIL vide

2.2 Status of transmission schemes where modifications was suggested by NCT:

S. No.	Scheme where modifications was suggested	Status
1.	Implementation of Jhatikara – Dwarka 400 kV (Quad) D/c line under Rajasthan REZ Ph-III, Part-D- Ph-II Scheme	CTUIL vide letter dated 29.05.2024 informed to implementing agency, i.e. POWERGRID
2.	Delinking of EHVAC System beyond Kaithal from Transmission system for evacuation of RE power from renewable energy parks in Leh (5 GW Leh-Kaithal transmission corridor)	MoP issued O.M. dated 18.06.2024
3.	Change in Scope of transmission scheme "Eastern Region Expansion Scheme- XXXIV (ERES-XXXIV)"	Informed to PFCCCL vide letter dated 28.05.2024
4.	Change in implementation timeframe of Eastern Region Generation Scheme-I (ERGS-I)	Informed to PFCCCL vide letter dated 28.05.2024

2.3 Members noted the status.

**3 Modifications in the earlier approved/notified transmission schemes:**

**3.1 Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL) – PART-B**

3.1.1 Augmentation of transformation capacity at Jam Khambhaliya PS (JKTL)- PART B was approved in the 18<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) held on 05<sup>th</sup> March, 2024, with cost estimate of INR 310 Cr. under TBCB route with PFCCCL as the BPC as mentioned below

Sl. No.	Scope of the Transmission Scheme	Capacity /km
1.	Creation of New 220 kV Bus Section-II at Jam Khambhaliya PS  Space to be kept for 1 No. 220 kV line bay in the same GIS Hall for RE Interconnection being implemented by the RE developer (in addition to 2 Nos. bays at Sl. 4)	220 kV Bus sectionaliser bay - 1 Set (to be kept normally CLOSED and may be opened based on system requirement) 220 kV BC – 1 No.
2.	Augmentation of transformation capacity at Jam Khambhaliya PS (GIS) by 2x500 MVA, 400/220 kV ICT (5th & 6th)	500 MVA, 400/220 kV ICTs: 2 Nos. 400 kV ICT bays: NIL* 220 kV ICT bays: 2 Nos.

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Sl. No.	Bay Type	Present scope	Revised Present scope	Future Scope	Revised Future scope
4	765/400 kV Transformer Bay	3	3	4	4
5	Bus Sectionaliser	0	0	1 set	2 set
6	Bus Reactor	1	1	-	Any Line with reactor bay may be used as Bus reactor bay
<b>220 kV switchyard</b>					
1	Line	15	15 (5 Nos. Shifted to new section)	11	5
2	400/220 kV Transformer Bay	9	9 (2 shifted to new section)	11	5
3	Bus Coupler	3	3	3	1
4	Transfer Bus coupler	3	3	3	1
5	Bus section	2 set	2 set	3 set	0

Additional works due to rearrangement / revised scope:

Sl. No.	Items
1	Land development for additional area for 400 & 220 kV Switchyard
2	400 kV Bus works for 8 Nos. additional diameters
3	Earth mat for additional area for 400 & 220 kV Switchyard
4	Other Auxiliary items i.e. additional requirement of Power & Control Cables, illumination, VMS etc.
5	Associated civil works including dismantling of foundations already casted

### 3.3 Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

3.3.1 Representative of CTUIL stated that in the 16<sup>th</sup> meeting of NCT held on 30.11.2023, Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) was recommended to be implemented through TBCB mode with tentative implementation timeframe of 30-06-2026 and estimated cost of Rs. 2898 crores. This scheme inter alia includes establishment of 765/400 kV ISTS substation at Gopalpur alongwith Angul (POWERGRID) – Gopalpur 765 kV D/c line & Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c line in Odisha. Bidding of the scheme is under progress.

3.3.2 OPTCL vide letter no. CP/INDUSTRY DEPT/82/2023/122 dated 05-06-2024 have informed them that the expected commissioning schedule of their substation is changed from March 2026 to December 2026. One GNA<sub>RE</sub> applicant viz. M/s Avaada has been granted 700 MW GNA<sub>RE</sub> w.e.f. 30-06-2026 at Gopalpur (ISTS) S/s. Subsequently, M/s

Avaada vide letter dated 22-03-2024 had requested to shift the start date of GNA<sub>RE</sub> to Dec 2027.

- 3.3.3 Completion schedule of ERES-XXXIX scheme was finalized keeping in view expected schedule of Gopalpur (OPTCL) S/s and GNA<sub>RE</sub> requirement. Considering the present completion schedule of ERES-XXXIX i.e. 30-06-2026, no drawal arrangement at Gopalpur ISTS S/s would be available between July 2026 and Dec 2026. Accordingly, CTUIL proposed that the completion schedule of ERES-XXXIX scheme may be modified to 31-12-2026 from 30-06-2026.
- 3.3.4 Representative of RECPDCL stated that presently only land has been identified for Gopalpur (OPTCL) substation. OPTCL has not yet submitted the substation plan and bay coordinates to them for inclusion in RfP.
- 3.3.5 After deliberations, NCT approved the change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) from 30<sup>th</sup> June, 2026 to 31<sup>st</sup> December, 2026. Further, CTUIL was directed to reconfirm commissioning schedule of Gopalpur (OPTCL) from Odisha. Based on the response from Odisha, completion timeframe of ERES-XXXIX may again be reviewed at a later stage.

### 3.4 System strengthening at Koppal-II and Gadag-II for integration of RE generation

- 3.4.1 Representative of CTUIL stated that transmission scheme for Koppal-II PS & Gadag-II PS was approved in 10<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) held on 7<sup>th</sup> November, 2022, with cost estimate of INR 310 Cr. under TBCB route with RECPDCL as the BPC with the following space provisions:
- **Koppal-II PS:** 220kV Bus Sectionalizer: 3 sets, 220 kV Bus Coupler (BC) Bay – 3 Nos., 220 kV Transfer Bus Coupler (TBC) Bay – 3 Nos. and 400 kV Bus Sectionalizer : 1 set.
  - **Gadag-II PS:** 220kV Bus Sectionalizer: 3 sets, 220 kV Bus Coupler (BC) Bay – 3 Nos., 220 kV Transfer Bus Coupler (TBC) Bay – 3 Nos.
- 3.4.2 He further added that Transmission scheme for System strengthening at Koppal-II and Gadag-II for integration of RE generation was agreed for implementation in the 19<sup>th</sup> meeting of the "National Committee on Transmission" (NCT) held on 29<sup>th</sup> April, 2024 with cost estimate of INR 1354.4 Cr. under TBCB route with PFCCCL as the BPC with the following scope:
- Augmentation of 3x1500 MVA (5<sup>th</sup> - 7<sup>th</sup>), 765/400 kV ICTs, 5x500 MVA, 400/220kVICTs (5<sup>th</sup> - 9<sup>th</sup>) & 6 Nos. of 220 kV line bays at Koppal-II PS
  - Augmentation of 7x500 MVA, 400/220 kV ICTs (3<sup>rd</sup> - 9<sup>th</sup>), 1 No. of 400kV line bay & 5nos. of 220kV line bays at Gadag-II PS & Gadag-II PS – Koppal-II PS 400 kV (Quad) 2nd D/c line.

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भारत सरकार

Government of India

विद्युत मंत्रालय

Ministry of Power

केंद्रीय विद्युत प्राधिकरण

Central Electricity Authority

विद्युत प्रणाली योजना एवं मूल्यांकन प्रभाग- II

Power System Planning &amp; Appraisal Division-II

सेवा में /To

As per list of Addresses

विषय: ट्रांसमिशन पर राष्ट्रीय समिति (एनसीटी) की इक्कीसवी बैठक के कार्यवृत्त - के सम्बन्ध में ।

Subject: Minutes of the 21<sup>st</sup> Meeting of National Committee on Transmission (NCT) – regarding.

महोदया (Madam) / महोदय (Sir),

The 21<sup>st</sup> meeting of the "National Committee on Transmission" (NCT) was held on 6<sup>th</sup> August, 2024, at CEA, New Delhi. Minutes of the meeting are enclosed herewith.

भवदीय/Yours faithfully,

Signed by Bhagwan Sahay  
Bairwa

Date: 21-08-2024 10:17:05

(बी.एस.बैरवा/ B.S. Bairwa)

मुख्य अभियन्ता (इंचार्ज) एवं सदस्य सचिव, एन.सी.टी./  
Chief Engineer (I/C) & Member Secretary (NCT)

प्रतिलिपि / Copy to:

Joint Secretary (Trans), Ministry of Power, New Delhi-110001

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## List of Addresses:

1.	Chairperson, Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	2.	Member (Power Systems), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.
3.	Member (Economic & Commercial), Central Electricity Authority Sewa Bhawan, R.K. Puram, New Delhi – 110 066.	4.	Director (Trans), Ministry of Power Shram Shakti Bhawan, New Delhi-110001.
5.	Sh. Lalit Bohra, Joint Secretary Room no 602, Atal Akshay Urja Bhawan Opposite CGO Complex, Gate No. 2, Lodhi Road, New Delhi – 110003	6.	Chief Operating Officer, CTUIL, Saudamini, Plot No. 2, Sector-29, Gurgaon – 122 001.
7.	Sh. Rajnath Ram, Adviser (Energy), NITI Aayog, Parliament Street, New Delhi – 110 001.	8.	CMD, Grid Controller of India, B-9, Qutub Institutional Area, Katwaria Sarai, New Delhi – 110016
9.	Sh. Ravinder Gupta Ex. Chief Engineer CEA		

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**Minutes of the 21<sup>st</sup> meeting of National Committee on Transmission (NCT)**

The 21<sup>st</sup> meeting of NCT was held on 6<sup>th</sup> August, 2024 at CEA, New Delhi. List of participants is enclosed at **Annexure-I**. Agenda wise deliberations are given below:

**1 Confirmation of the minutes of the 20<sup>th</sup> meeting of National Committee on Transmission.**

**1.1** The minutes of the 20<sup>th</sup> meeting of NCT held on 25.06.2024 were issued vide CEA letter no CEA-PS-12-13/3/2019-PSPA-II dated 13.07.2024. No comments were received on the minutes.

**1.2** Members confirmed the minutes.

**2 Status of the transmission schemes noted/approved/recommended to MoP in the 20<sup>th</sup> meeting of NCT:**

**2.1** Status of new transmission schemes approved/recommended:

Sl. No.	Name of the Transmission Scheme	Noted/ Recommended/ Approved	Mode of Implementation	BPC	Award/ Gazette Notification
1.	Network Expansion scheme in Western Region to cater to Pumped storage potential near Talegaon (Pune)	Recommended	TBCB	RECPDCL	Under process in MoP
2.	Provision of ICT Augmentation and Bus Reactor at Bhuj-II PS	Recommended	TBCB	PFCCL	Under process in MoP
3.	Transmission System for Offshore Wind Zone Phase-1 (500 MW VGF off the coast of Gujarat for Subzone B3)	Recommended	RTM	Not applicable	Under process in MoP
4.	Transmission System for Offshore wind farm in Tamil Nadu (500 MW VGF)	Recommended	RTM	Not applicable	Under process in MoP
5.	Transmission System for evacuation of power from Mahan Energen Limited Generating Station in Madhya Pradesh	Recommended	TBCB	PFCCL	Under process in MoP
6.	Transmission system for Augmentation of transformation capacity at 765/400 kV Lakadia S/s (WRSS XXI(A) Transco Ltd) in Gujarat – Part B	Recommended	TBCB	RECPDCL	Under process in MoP
7.	Transmission System for evacuation of RE power from Raghnesda area of Gujarat – 3 GW under Phase-I	Recommended	TBCB	PFCCL	Under process in MoP

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3.1.4 After deliberations, NCT approved the change in schedule of one of the 400 kV bays of M/s Indosol Solar Pvt. Ltd of the transmission scheme “Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects” as follows:

Pack age	Scope of the Transmission Scheme	Capacity /km	Schedule	Revised Schedule
A	Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS	<ul style="list-style-type: none"> <li>• 3x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 3 Nos.</li> <li>• 400 kV ICT bay – 3 Nos.</li> <li>• 400 kV Bus Sectionalizer – 1 Set</li> </ul>	24 months	No change
	Kurnool-III PS – 260 km Chilakaluripeta 765 kV D/c line with 240 MVar switchable line reactors at both ends	<ul style="list-style-type: none"> <li>• 765 kV line bays – 2 Nos. (at Kurnool-III PS)</li> <li>• 765 kV line bays – 2 Nos. (at Chilakaluripeta)</li> <li>• 765 kV, 240 MVar SLR at Kurnool-III PS – 2 Nos. (6x80 MVar units)</li> <li>• 765 kV, 240 MVar SLR at Chilakaluripeta – 2 Nos. (6x80 MVar units)</li> </ul>		
B	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Forty Two Ltd.	• 400 kV line bays – 2 Nos.	30.06.26	No change
	4 Nos. of 400 kV line bay at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd.	• 400 kV line bays – 1 Nos.	30.06.25	<b>24 Months</b>
		• 400 kV line bays – 1 Nos.	24 months	No change
		• 400 kV line bays – 2 Nos.	31.03.27	No change
2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Fifty One Ltd.	• 400 kV line bays – 2 Nos.	31.12.27	No change	
C	Augmentation of 1x1500 MVA 765/400 kV ICT (7 <sup>th</sup> ) at Kurnool-II PS	<ul style="list-style-type: none"> <li>• 1x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 1 Nos.</li> <li>• 400 kV ICT bay – 1 Nos.</li> </ul>	24 months	No change

## 3.2 Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

3.2.1 In the 16<sup>th</sup> meeting of NCT held on 30.11.2023, the Eastern Region Expansion Scheme-XXXIX was recommended to be implemented through TBCB mode with tentative implementation timeframe of 30-06-2026. This scheme inter alia includes establishment of 765/400 kV ISTS substation at Gopalpur alongwith Angul

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(POWERGRID) – Gopalpur 765 kV D/c line and Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c line in Odisha. Bidding of the scheme is under progress.

- 3.2.2 In the 20<sup>th</sup> meeting of NCT held on 25.06.2024, change in implementation time-frame of ERES-XXXIX from 30-06-2026 to 31-12-2026 was approved. Further, CTUIL was directed to reconfirm commissioning schedule of Gopalpur S/s (OPTCL) from Odisha.
- 3.2.3 Representative of CTUIL stated that OPTCL vide letter dated 01.08.2024 had informed them that completion schedule of 400 kV OPTCL substation at Gopalpur is Dec'2027.
- 3.2.4 After deliberations, NCT approved the change in schedule of implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) from 31.12.2026 to 31.12.2027

### **3.3 Modification in the scope of works of the transmission scheme "Transmission Scheme for integration of Davanagere / Chitradurga REZ.**

- 3.3.1 Representative of CTUIL stated that "Transmission Scheme for integration of Davanagere / Chitradurga REZ" was agreed in 18<sup>th</sup> meeting of NCT at an estimated cost of ₹ 2640 Cr. The scheme inter-alia includes the LILO of Narendra New – Madhugiri 765 kV D/c line at Davanagere / Chitradurga S/s. Under present scope, 765 kV, 2x240 MVAR (765 kV) Line reactors at Narendra New are proposed for Narendra New – Davanagere / Chitradurga 765 kV D/C line. Existing 765 kV Bus Reactors and Line Reactors at Narendra New are of single phase 110 MVAR rating, therefore, the existing spare 1-phase Shunt Reactor unit cannot be utilized for the switchable line reactor banks (240 MVAR).
- 3.3.2 CTUIL proposed to amend the scope of works incorporating a spare 80 MVAR, 765 kV reactor at Narendra New in the transmission scheme.
- 3.3.3 The revised cost of the said transmission scheme incorporating a spare 80 MVAR, 765 kV reactor is ₹ 2651.5 Cr and the percentage increase in the estimated cost is 0.44%.
- 3.3.4 After deliberations, NCT approved the modification in the scope of the "Transmission Scheme for integration of Davanagere / Chitradurga REZ" by addition of a spare 80 MVAR 765 kV reactor at Narendra New.

## **4 New Transmission Schemes:**

### **4.1 Transmission System for supply of power to Green Hydrogen/Ammonia manufacturing potential in Kandla area of Gujarat (Phase-I: 3 GW)**

- 4.1.1 Representative of CTUIL stated that MNRE has forwarded the Green Hydrogen/Ammonia manufacturing locations along with the associated electricity demand by 2030. It was informed that Green Hydrogen/Ammonia manufacturing is planned in the coastal states of Gujarat, Karnataka, Tamil Nadu, Andhra Pradesh, West Bengal and Odisha.
- 4.1.2 MNRE representative informed that earlier M/s NTPC and M/s Renew Power had plans to establish Green hydrogen/ammonia manufacturing facility in Kandla, however, as

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## Summary of the deliberations of the 21<sup>st</sup> meeting of NCT held on 06<sup>th</sup> August, 2024

### I. Modification in the earlier approved/notified transmission schemes:

#### 1. Modification of implementation schedule of one of the 400 kV bay of M/s Indosol Solar Pvt. Ltd. under the scheme “Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects”

NCT approved the change in schedule of one of the 400 kV bay of M/s Indosol Solar Pvt. Ltd of the transmission scheme “Transmission system strengthening at Kurnool-III PS for integration of additional RE generation projects” as mentioned below:

Pack age	Scope of the Transmission Scheme	Capacity /km	Schedule	Revised Schedule
A	Augmentation of transformation capacity by 3x1500 MVA, 765/400 kV ICTs at Kurnool-III PS	<ul style="list-style-type: none"> <li>• 3x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 3 Nos.</li> <li>• 400 kV ICT bay – 3 Nos.</li> <li>• 400 kV Bus Sectionalizer – 1 Set</li> </ul>	24 months	No change
	Kurnool-III PS – 260 km Chilakaluripeta 765 kV D/c line with 240 MVA switchable line reactors at both ends	<ul style="list-style-type: none"> <li>• 765 kV line bays – 2 Nos. (at Kurnool-III PS)</li> <li>• 765 kV line bays – 2 Nos. (at Chilakaluripeta)</li> <li>• 765 kV, 240 MVA SLR at Kurnool-III PS – 2 Nos. (6x80 MVA units)</li> <li>• 765 kV, 240 MVA SLR at Chilakaluripeta – 2 Nos. (6x80 MVA units)</li> </ul>		
B	2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Forty Two Ltd.	• 400 kV line bays – 2 Nos.	30.06.26	No change
	4 Nos. of 400 kV line bay at Kurnool-III PS for termination of dedicated transmission lines of M/s Indosol Solar Pvt. Ltd.	• 400 kV line bays – 1 Nos.	30.06.25	<b>24 Months</b>
		• 400 kV line bays – 1 Nos.	24 months	No change
		• 400 kV line bays – 2 Nos.	31.03.27	No change
2 Nos. of 400 kV line bays at Kurnool-III PS for termination of dedicated transmission line of M/s Adani Renewable Energy Fifty One Ltd.	• 400 kV line bays – 2 Nos.	31.12.27	No change	
C	Augmentation of 1x1500 MVA 765/400 kV ICT (7 <sup>th</sup> ) at Kurnool-II PS	<ul style="list-style-type: none"> <li>• 1x1500 MVA, 765/400 kV ICT</li> <li>• 765 kV ICT bay – 1 Nos.</li> <li>• 400 kV ICT bay – 1 Nos.</li> </ul>	24 months	No change

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## 2. Change in Implementation time-frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)

NCT approved the change in implementation time frame of Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX) from 31.12.2026 to 31.12.2027

## 3. Modification in the scope of works of the transmissions scheme "Transmission Scheme for integration of Davanagere / Chitradurga REZ."

NCT approved the modification in the scope of "Transmission Scheme for integration of Davanagere / Chitradurga REZ" as follows:

Incorporation of one spare 80 MVA<sub>r</sub>, 765 kV reactor at Narendra New. Cost of the scheme changes from 2640 Cr. to 2651.5 Cr and the percentage variation in the estimated cost is 0.44%.

## 4. Modification in the Transmission scheme "Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B".

NCT approved the modification in the Transmission scheme "Transmission system for evacuation of power from Rajasthan REZ Ph-IV (Part-4: 3.5 GW): Part B" as mentioned below:

S.No.	Earlier Scope of Transmission Scheme	Revised Scope of Transmission Scheme
1	<p>Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Merta (Merta-II Substation) along with 2x240 MVA<sub>r</sub> (765 kV) &amp; 2x125 MVA<sub>r</sub> (420 kV) bus reactor at Merta-II S/s</p> <p><b>Merta-II S/s -AIS</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit)</li> <li>• 400/220 kV 500 MVA ICTs -2 Nos.</li> <li>• 765 kV ICT bays-2 Nos.</li> <li>• 400 kV ICT bays- 4 Nos.</li> <li>• 220 kV ICT bays- 2 Nos.</li> <li>• 765kV line bays: 4 Nos. (for 765kV interconnection with Dausa S/s &amp; Barmer-I PS)</li> <li>• 400 kV line bays: 2 Nos. (for 400 kV interconnection with Beawar S/s)</li> <li>• 240 MVA<sub>r</sub> Bus Reactor-2 Nos. (7x80 MVA<sub>r</sub>, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 125 MVA<sub>r</sub> Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> <li>• 220 kV line bays: 3 Nos. (for RE connectivity)</li> </ul>	<p>Establishment of 765/400 kV, 2x1500 MVA S/s at suitable location near Merta (Merta-II Substation) along with 2x240 MVA<sub>r</sub> (765 kV) &amp; 2x125 MVA<sub>r</sub> (420 kV) bus reactor at Merta-II S/s</p> <p><b>Merta-II S/s -AIS</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV 1500 MVA ICTs- 2 Nos. (7x500 MVA including one spare unit)</li> <li>• 400/220 kV 500 MVA ICTs -<b><u>5 Nos.</u></b></li> <li>• 765 kV ICT bays-2 Nos.</li> <li>• 400 kV ICT bays- <b><u>7 Nos.</u></b></li> <li>• 220 kV ICT bays- <b><u>5 Nos.</u></b></li> <li>• 765 kV line bays: 4 Nos. (for 765 kV interconnection with Dausa S/s &amp; Barmer-I PS)</li> <li>• 400 kV line bays: 2 Nos. (for 400 kV interconnection with Beawar S/s)</li> <li>• 240 MVA<sub>r</sub> Bus Reactor-2 Nos. (7x80 MVA<sub>r</sub>, including one spare unit)</li> <li>• 765 kV Bus reactor bays-2 Nos.</li> <li>• 125 MVA<sub>r</sub> Bus Reactor-2 Nos.</li> <li>• 400 kV Bus reactor bays- 2 Nos.</li> <li>• 220 kV line bays: <b><u>7 Nos. (for RE connectivity)</u></b></li> </ul>



Ref. No.: RECPDCL/ISTS/ERES-XXXIX/2024-25/2175

Date: 01.10.2024

**Mr. Rajat Uprety,**  
**M/s The Tata Power Company Limited,**  
Shatabdi Bhawan, B-12 & 13, sector 4  
Noida, UP-201301

**Subject: RFP dated 16.03.2024 for selection of Bidder for Establishment of "EASTERN REGION EXPANSION SCHEME-XXXIX (ERES – XXXIX)" through Tariff Based Competitive Bidding process.**

Dear Sir,

We are thankful for your participation by submission of Response to RFP and pleased to inform you that pursuant to our evaluation, your response fulfills the qualification requirements as stipulated in the RFP and in accordance with Clause 3.2 to 3.4 you have been declared as "Qualified Bidder".

We look forward for your participation.

Thanking you,

Yours faithfully,

(Satyapan Sahoo)

**General Manager (Tech)**

**List of Qualified Bidders after opening of responses to RFP (Technical Bid) for “Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)”:**

<b>S. No.</b>	<b>Name of the Bidder</b>	<b>Sole / Consortium</b>	<b>Equity Contribution</b>
1.	M/s Power Grid Corporation of India Limited	Sole	100 %
2.	M/s Sterlite Grid 32 Limited	Sole	100 %
3.	M/s Adani Energy Solutions Limited	Sole	100 %
4.	M/s The Tata Power Company Limited	Sole	100 %

Ref. No.: RECPDCL/ISTS/TBCB/ERES-XXXIX/2024-25/2198

Date: 03.10.2024

**Sh. Rajat Uprety,**  
**M/s The Tata Power Company Limited,**  
Shatabdi Bhawan, B-12 & 13, sector 4  
Noida, UP-201301

**Sub:** Selection of Bidder as Transmission Service Provider for "**Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)**" through Tariff Based Competitive Bidding process - **Start of e-Reverse Auction.**

Dear Sir,

This has reference to the response to RFP submitted by you in respect to the subject cited transmission project.

In this regard, it is to inform you that you are qualified to participate in next stage of bidding i.e., e-Reverse Auction. Please note that e-RA will start from **10:00 Hrs. (IST) on 04.10.2024 (Friday)** and the lowest Initial Offer for start of e-RA is **Rs. 3,750.00 Million.**

In case of any issues during the e-RA process you are requested to contact RECPDCL @ +91 9589197099, +917389907977 and tcb@recpdcl.in.

Thanking you,

Yours faithfully,

  
(Satyaban Sahoo) 03/10/24  
**General Manager (Tech)**

Ref No.: RECPDCL/TBCB/ERES-XXXIX/2024-25/2238

Date: 07.10.2024

**Mr. Rajat Uprety,**  
**M/s The Tata Power Company Limited,**  
Shatabdi Bhawan, B-12 & 13, sector 4  
Noida, UP-201301

**Sub:** Selection of Bidder as Transmission Service Provider to establish “**EASTERN REGION EXPANSION SCHEME-XXXIX (ERES – XXXIX)**” through Tariff based competitive bidding process - **Submission of Original Documents.**

Sir,

This has reference to the response to RFP submitted by you in respect to the subject cited transmission project and subsequent e-reverse auction concluded on 05.10.2024.

In this regard, as per provisions of Clause 2.5.2 of RFP Document, you are requested to submit original hard copies of Annexure 3, Annexure 4 (if applicable), Annexure 6 (if applicable) and Annexure 14 on or before 1800 Hrs (IST) on 09.10.2024 (Wednesday) for further evaluation.

Thanking You,

Yours faithfully

  
(Satyaban Sahoo)  
General Manager (Tech) 07/10/24

590  Annexure P-26

Ref. No: T&D/BD/DOM/FY25/RECPDCL/ERES39/118

Date: Oct 07, 2024

To,

Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4, Sec – 29 Gurugram – 122 001

**Subject: Selection of bidder as Transmission Service Provider through tariff based competitive bidding process to establish Inter-State Transmission System for Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)**

Ref: Letter No. RECPDCL/TBCB/ERES-XXXIX/2024-25/2238

Dear Sir,

This is in reference to the aforementioned letter dated 07.10.2024 regarding the submission of the original hard copies of Annexure 3 and Annexure 14 by the bidder, for the subject cited project. May please note that the other mentioned Annexures 4 and 6 are not applicable.

In this regard, we are submitting the required documents as per the desired timeline.

Thanking you,

  
  
Piyush Kumar  
Authorized Signatory, The Tata Power Company Limited  
E-mail: [piyushkumar@tatapower.com](mailto:piyushkumar@tatapower.com);  
Mob: +91-9971152926

**TATA POWER**

The Tata Power Company Limited  
"Shatabdi Bhawan", B-12&13, Sector-4 Noida 201 301 (U.P.)  
Tel.: 91 120 610 2000  
Registered Office Bombay House 24 Homi Mody Street Mumbai 400 001  
Website : [www.tatapower.com](http://www.tatapower.com) Email : [tatapower@tatapower.com](mailto:tatapower@tatapower.com)  
CIN : L28920MH1919PLC000567

# 591

## Annexure P-27

Date: 08.10.2024

### CERTIFICATE BY BID EVALUATION COMMITTEE

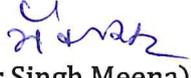
**Subject: Selection of Successful Bidder as Transmission Service Provider to establish "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through tariff based competitive bidding process.**

It is certified that:

- The entire bid process has been carried out in accordance with the "Tariff based Competitive Bidding Guidelines for Transmission Service" and "Guidelines for encouraging competition in development of the Transmission Projects" issued by Ministry of Power, Govt. of India under Section 63 of the Electricity Act, 2003 as amended from time to time.
- M/s The Tata Power Company Limited, with the lowest annual transmission charges of Rs. 2,897.29 Million, emerged as the successful Bidder after the conclusion of electronic reverse auction.
- The transmission charges of Rs. 2,897.29 Million discovered after electronic reverse auction is acceptable.

  
(Rajesh Kumar Singh)  
General Manager,  
CCGRO II, SBI  
Chairman, BEC

  
(Bhagwan Sahay Bairwa)  
Chief Engineer (I/C)  
(PSPA-II), CEA  
Member, BEC

  
(Bhanwar Singh Meena)  
Director (PSETD), CEA  
Member, BEC

  
(Shyam Kejriwal)  
SE, ERPC  
Member, BEC

  
(Ranjan Kumar Panigrahi)  
General Manager (South),  
OPTCL  
Member, BEC

  
(Kuntala Venugopal)  
Chairman, SPV  
Convener - Member  
BEC

Ref No.: RECPDCL/TBCB/ERES XXXIX/2024-25/2385

Date: 15.10.2024

To,

**M/s The Tata Power Company Limited,**  
Shatabdi Bhawan, B-12 & 13, sector 4  
Noida, UP-201301

**Kind Attention: Sh. Piyush Kumar, Authorized Signatory**

**Subject:** Establishment of "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through Tariff Based Competitive Bidding Process (TBCB) – **Letter of Intent.**

Dear Sir,

We refer to:

1. The Request for Proposal (RfP) dated 16.03.2024 comprising RfP, Draft Transmission Service Agreement, Share Purchase Agreement and Survey Report dated 08.04.2024 (& Amendment to Survey Report dated 14.06.2024) issued to M/s The Tata Power Company Limited, as regards participation in the Global Invitation for Bids for establishment of "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through Tariff Based Competitive Bidding process including all correspondence/clarifications/amendments/errata/corrigendum issued by REC Power Development and Consultancy Limited in regard thereto (hereinafter collectively referred to as the 'Final RFP') till the submission of Bid Deadline and as listed below:
  - (i) Amendment-I dated 22.03.2024,
  - (ii) Amendment-II dated 30.04.2024,
  - (iii) Clarifications dated 02.05.2024,
  - (iv) Amendment-III dated 18.05.2024,
  - (v) Amendment-IV dated 29.05.2024,
  - (vi) Amendment-V dated 12.06.2024,
  - (vii) Additional Clarifications dated 14.06.2024,
  - (viii) Amendment-VI dated 03.07.2024,
  - (ix) Amendment-VII dated 18.07.2024,
  - (x) Additional Clarifications dated 22.07.2024,
  - (xi) Amendment-VIII dated 27.07.2024,
  - (xii) Amendment-IX dated 07.08.2024,
  - (xiii) Additional Clarifications dated 16.08.2024
  - (xiv) Amendment-X dated 22.08.2024,
  - (xv) Amendment-XI and Additional Clarifications dated 04.09.2024,
  - (xvi) Amendment-XII dated 09.09.2024,
  - (xvii) Amendment-XIII dated 19.09.2024;
2. The offer of M/s The Tata Power Company Limited by way of a Technical Bid pursuant to (1) above submitted on 24.09.2024 in response to the Final RFP.
3. The Initial Price Offer of M/s The Tata Power Company Limited as submitted on 24.09.2024 in response to the Final RFP.
4. The final offer of M/s The Tata Power Company Limited, discovered during e-Reverse Auction, conducted on 04.10.2024 in response to the Final RFP.

  
Page 1 of 4

5. The Technical Bid as in (2) above, the Initial Price Offer as in (3) above and the Final Offer as in (4) above hereinafter collectively referred to as the 'Bid'.

We are pleased to inform you that your proposal and offer received by way of the 'Bid' has been accepted and M/s The Tata Power Company Limited is hereby declared as Successful Bidder as per clause 3.6.1 of the Final RFP for the above project and consequently, this Letter of Intent (hereinafter referred to as the 'LoI') is being issued in 2 copies, One original plus One copy.

This LoI is based on the Final RFP and is further contingent upon you satisfying the following conditions:

- (a) Acknowledging its issuance and unconditionally accepting its contents and recording 'Accepted unconditionally' under the signature and stamp of your authorized signatory on each page of the duplicate copy of this letter attached herewith and returning the same to REC Power Development and Consultancy Limited within 7 (Seven) days from the date of issuance of LoI.
- (b) Completion of various activities as stipulated in the RFP including in particular Clause 2.15.2, Clause 2.15.3 and Clause 2.15.4 of the Final RFP within the timelines as prescribed therein.
- (c) Provide the Contract Performance Guarantee of Rs. 58.00 Crore (Rupees Fifty-Eight Crore Only) within 10 (Ten) days from issue of this LoI, in favour of the Central Transmission Utility of India Limited, as per the provisions of Clause 2.12.

It may be noted that REC Power Development and Consultancy Limited has the rights available to them under the Final RFP, including rights under clause 2.15.5 and 3.6.3 thereof, upon your failure to comply with the aforementioned conditions.

As you are aware, the issuance and contents of this LoI are based on the Bid submitted by you as per the Final RFP including the Transmission Charges and other details regarding the Scheduled COD as contained therein. The Quoted Transmission Charges as submitted by you and the Scheduled COD of transmission elements as agreed by you in your Bid, as per Annexure 21 and Format-1 of Annexure-8 respectively of the Final RFP is enclosed herewith as Schedule-A and incorporated herein by way of reference.

Further, please note that relationship of M/s The Tata Power Company Limited with the REC Power Development and Consultancy Limited & Central Transmission Utility of India Limited will be governed solely on the basis of the Final RFP.

You are requested to unconditionally accept the LoI, and record on one copy of the LoI, 'Accepted unconditionally', under the signature of the authorized signatory of your Company and return such copy to us within 7 (Seven) days of issue of LoI.

Yours faithfully

  
(Satyaban Sahoo) 15/10/24  
General Manager (Tech)

**Enclosures:**

1. Schedule A: Quoted Transmission Charges and the scheduled COD of transmission element submitted in your Bid, as per Annexure 21 and Format-1 of Annexure-8 respectively of the Final RFP.

**Copy for kind information to:**

1. **The Secretary,**  
Central Electricity Regulatory Commission,  
6<sup>th</sup> Floor, Tower B, World Trade Centre,  
Nauroji Nagar, New Delhi-110029.
2. **The Chairperson,**  
Central Electricity Authority,  
Sewa Bhawan, R K Puram,  
New Delhi-110086.
3. **The Joint Secretary (Transmission),**  
Ministry of Power,  
Shram Shakti Bhawan,  
Rafi Marg, New Delhi- 110 004.
4. **The Director (Transmission),**  
Ministry of Power, Govt, of India,  
Shram Shakti Bhawan, Raft Marg,  
New Delhi 110001
5. **The Chief Engineer (PSP & PA -I)**  
Central Electricity Authority,  
Sewa Bhawan, R.K. Puram,  
New Delhi – 110066.
6. **The Chief Operating Officer,**  
Central Transmission Utility of India Limited,  
5<sup>th</sup> to 10<sup>th</sup> Floor, Ircon International Tower,  
Tower No.-1, Plot No. 16, Sector 32,  
Gurugram, Haryana - 122003



## ANNEXURE 21 - FORMAT FOR FINANCIAL BID

**Quoted Annual Transmission Charges: Rs. 2897.29 Million**

**Notes:**

1. The Bidders are required to ensure compliance with the provisions of Clause 2.5.3 of this RFP.
2. Quotes to be in Rupees Millions and shall be up to two (2) decimal points.
3. The contents of this format shall be clearly typed.
4. The Financial Bid shall be digitally signed by the authorized signatory in whose name power of attorney as per Clause 2.5.2 is issued.
5. Ensure only one value for annual Transmission Charges is quoted. The same charge shall be payable every year to TSP for the term of TSA.



*Satyaran sb*

**UNDERTAKING AND DETAILS OF EQUITY INVESTMENT**

**Format 1: Bidders' Undertakings**

**Date:** 24 September 2024

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. 1 – 4, Sec – 29 Gurugram – 122 001**

Dear Sir,

**Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Inter-State transmission system for "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)"**

We hereby undertake on our own behalf and on behalf of the TSP, that if selected as the Successful Bidder for the Project:

1. The Project shall comply with all the relevant electricity laws, codes, regulations, standards and Prudent Utility Practices, environment laws and relevant technical, operational and safety standards, and we shall execute any agreements that may be required to be executed as per law in this regard.
2. We confirm that the Project shall also comply with the standards and codes as per Clause 1.6.1.2 of the RFP and the TSP shall comply with the provisions contained in the Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-state Transmission and related matters Open Access) Regulations, 2009.
3. We give our unconditional acceptance to the RFP dated 16.03.2024 issued by the BPC and the RFP Project Documents, as amended, and undertake to ensure that the TSP shall execute all the RFP Project Documents, as per the provisions of this RFP.
4. We have submitted the Bid on the terms and conditions contained in the RFP and the RFP Project Documents. Further, the Financial Bid submitted by us is strictly as per the format provided in Annexure 21 of the RFP, without mentioning any deviations, conditions, assumptions or notes in the said Annexure.
5. Our Bid is valid up to the period required under Clause 2.8 of the RFP.



**TATA POWER**

6. Our Bid has been duly signed by authorized signatory and stamped in the manner and to the extent indicated in this RFP and the power of attorney / Board resolution in requisite format as per RFP has been enclosed with this undertaking.
7. Not Applicable
8. We confirm that our Bid meets the Scheduled COD of each transmission Element and the Project as specified below:

S. No.	Name of the Transmission Element	Scheduled COD in months from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1	Establishment of new 765/400 kV, 2x1500MVA GIS substation at Gopalpur in Odisha	31-12-2027	<u>29.98%</u>	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
2	Angul (POWERGRID) – Gopalpur 765kV D/c line along with 765kV, 1x330MVA switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits		<u>61.95%</u>	
3	Gopalpur - Gopalpur (OPTCL) 400kV D/c (Quad) line <sup>@</sup>		<u>3.72%</u>	
4	Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS		<u>1.93%</u>	
5	Extension at 400 kV level at *Gopalpur (OPTCL) GIS S/s		<u>2.42%</u>	

**Note:**

- (a) <sup>@</sup>Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- (b) <sup>#</sup>The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- (c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- (d) POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765 kV D/c line



We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

**Scheduled COD for the Project: 31-12-2027.**

9. We confirm that our Financial Bid conforms to all the conditions mentioned in this RFP, and in particular, we confirm that:
  - a. Financial Bid in the prescribed format of Annexure 21 has been submitted duly signed by the authorized signatory
  - b. Financial Bid is unconditional.
  - c. Only one Financial Bid has been submitted.
10. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our acquisition of ERES-XXXIX Power Transmission Limited, pursuant to our selection as Selected Bidder, we agree that the same would be treated as a TSP's Event of Default under Transmission Service Agreement, and relevant provisions of Transmission Service Agreement shall apply.
11. We confirm that there are no litigations or other disputes against us which materially affect our ability to fulfil our obligations with regard to the Project as per the terms of RFP Project Documents.
12. Power of attorney/ Board resolution as per Clause 2.5.2 is enclosed.

Yours faithfully

.....  




**(Signature and stamp)**

Name: Piyush Kumar  
Date: 24 September 2024  
Place: Noida

## Annexure P-29

Ref. No: T&D/BD/DOM/FY25/RECPDCL/ERES39/120

Date: October 21, 2024

To,

Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. I – 4, Sec – 29 Gurugram – 122 001

**Subject: Acceptance for LOI for selection of bidder as Transmission Service Provider through tariff based competitive bidding process to establish Inter-State Transmission System for Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)**

Dear Sir,

With reference to your Letter No. RECPDCL/TBCB/ERES XXXIX/2024-25/2238 dated 15.10.2024, we acknowledge the issuance of Lol and hereby enclose the copy of the subject Lol, accepted unconditionally, with the signature of authorized signatory on each page as per Clause (a) of the Lol.

Thanking you and assuring our best services always.

Yours sincerely,

For & on behalf of The Tata Power Company Limited

  
Piyush Kumar  
Authorized Signatory



**TATA POWER**

The Tata Power Company Limited  
"Shatabdi Bhawan", B-12&13, Sector-4 Noida 201 301 (U.P.)  
Tel.: 91 120 610 2000  
Registered Office Bombay House 24 Homi Mody Street Mumbai 400 001  
Website : [www.tatapower.com](http://www.tatapower.com) Email : [tatapower@tatapower.com](mailto:tatapower@tatapower.com)  
CIN : L28920MH1919PLC000567

Ref No.: RECPDCL/TBCB/ERES XXXIX/2024-25/2385

Date: 15.10.2024

To,  
**M/s The Tata Power Company Limited,**  
Shatabdi Bhawan, B-12 & 13, sector 4  
Noida, UP-201301

**Kind Attention: Sh. Piyush Kumar, Authorized Signatory**

**Subject:** Establishment of "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through Tariff Based Competitive Bidding Process (TBCB) – **Letter of Intent.**

Dear Sir,

We refer to:

1. The Request for Proposal (RfP) dated 16.03.2024 comprising RfP, Draft Transmission Service Agreement, Share Purchase Agreement and Survey Report dated 08.04.2024 (& Amendment to Survey Report dated 14.06.2024) issued to M/s The Tata Power Company Limited, as regards participation in the Global Invitation for Bids for establishment of "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through Tariff Based Competitive Bidding process including all correspondence/clarifications/amendments/errata/corrigendum issued by REC Power Development and Consultancy Limited in regard thereto (hereinafter collectively referred to as the 'Final RFP') till the submission of Bid Deadline and as listed below:
  - (i) Amendment-I dated 22.03.2024,
  - (ii) Amendment-II dated 30.04.2024,
  - (iii) Clarifications dated 02.05.2024,
  - (iv) Amendment-III dated 18.05.2024,
  - (v) Amendment-IV dated 29.05.2024,
  - (vi) Amendment-V dated 12.06.2024,
  - (vii) Additional Clarifications dated 14.06.2024,
  - (viii) Amendment-VI dated 03.07.2024,
  - (ix) Amendment-VII dated 18.07.2024,
  - (x) Additional Clarifications dated 22.07.2024,
  - (xi) Amendment-VIII dated 27.07.2024,
  - (xii) Amendment-IX dated 07.08.2024,
  - (xiii) Additional Clarifications dated 16.08.2024
  - (xiv) Amendment-X dated 22.08.2024,
  - (xv) Amendment-XI and Additional Clarifications dated 04.09.2024,
  - (xvi) Amendment-XII dated 09.09.2024,
  - (xvii) Amendment-XIII dated 19.09.2024;
2. The offer of M/s The Tata Power Company Limited by way of a Technical Bid pursuant to (1) above submitted on 24.09.2024 in response to the Final RFP.
3. The Initial Price Offer of M/s The Tata Power Company Limited as submitted on 24.09.2024 in response to the Final RFP.
4. The final offer of M/s The Tata Power Company Limited, discovered during e-Reverse Auction, conducted on 04.10.2024 in response to the Final RFP.



Accepted  
Unconditionally  
fkd



5. The Technical Bid as in (2) above, the Initial Price Offer as in (3) above and the Final Offer as in (4) above hereinafter collectively referred to as the 'Bid'.

We are pleased to inform you that your proposal and offer received by way of the 'Bid' has been accepted and M/s The Tata Power Company Limited is hereby declared as Successful Bidder as per clause 3.6.1 of the Final RFP for the above project and consequently, this Letter of Intent (hereinafter referred to as the 'Lol') is being issued in 2 copies, One original plus One copy.

This Lol is based on the Final RFP and is further contingent upon you satisfying the following conditions:

- (a) Acknowledging its issuance and unconditionally accepting its contents and recording 'Accepted unconditionally' under the signature and stamp of your authorized signatory on each page of the duplicate copy of this letter attached herewith and returning the same to REC Power Development and Consultancy Limited within 7 (Seven) days from the date of issuance of Lol.
- (b) Completion of various activities as stipulated in the RFP including in particular Clause 2.15.2, Clause 2.15.3 and Clause 2.15.4 of the Final RFP within the timelines as prescribed therein.
- (c) Provide the Contract Performance Guarantee of Rs. 58.00 Crore (Rupees Fifty-Eight Crore Only) within 10 (Ten) days from issue of this Lol, in favour of the Central Transmission Utility of India Limited, as per the provisions of Clause 2.12.

It may be noted that REC Power Development and Consultancy Limited has the rights available to them under the Final RFP, including rights under clause 2.15.5 and 3.6.3 thereof, upon your failure to comply with the aforementioned conditions.

As you are aware, the issuance and contents of this Lol are based on the Bid submitted by you as per the Final RFP including the Transmission Charges and other details regarding the Scheduled COD as contained therein. The Quoted Transmission Charges as submitted by you and the Scheduled COD of transmission elements as agreed by you in your Bid, as per Annexure 21 and Format-1 of Annexure-8 respectively of the Final RFP is enclosed herewith as Schedule-A and incorporated herein by way of reference.

Further, please note that relationship of M/s The Tata Power Company Limited with the REC Power Development and Consultancy Limited & Central Transmission Utility of India Limited will be governed solely on the basis of the Final RFP.

You are requested to unconditionally accept the Lol, and record on one copy of the Lol, 'Accepted unconditionally', under the signature of the authorized signatory of your Company and return such copy to us within 7 (Seven) days of issue of Lol.



*Accepted unconditionally*  
*MS*

Yours faithfully

*Satyaban Sahoo*  
(Satyaban Sahoo)

General Manager (Tech)



*15/10/24*

#### Enclosures:

1. Schedule A: Quoted Transmission Charges and the scheduled COD of transmission element submitted in your Bid, as per Annexure 21 and Format-1 of Annexure-8 respectively of the Final RFP.

**Copy for kind information to:**

1. **The Secretary,**  
Central Electricity Regulatory Commission,  
6<sup>th</sup> Floor, Tower B, World Trade Centre,  
Nauroji Nagar, New Delhi-110029.
2. **The Chairperson,**  
Central Electricity Authority,  
Sewa Bhawan, R K Puram,  
New Delhi-110086.
3. **The Joint Secretary (Transmission),**  
Ministry of Power,  
Shram Shakti Bhawan,  
Rafi Marg, New Delhi- 110 004.
4. **The Director (Transmission),**  
Ministry of Power, Govt. of India,  
Shram Shakti Bhawan, Raft Marg,  
New Delhi 110001
5. **The Chief Engineer (PSP & PA -I)**  
Central Electricity Authority,  
Sewa Bhawan, R.K. Puram,  
New Delhi – 110066.
6. **The Chief Operating Officer,**  
Central Transmission Utility of India Limited,  
5<sup>th</sup> to 10<sup>th</sup> Floor, Ircan International Tower,  
Tower No.-1, Plot No. 16, Sector 32,  
Gurugram, Haryana - 122003



*Accepted  
Unconditionally  
11/4*

## ANNEXURE 21 - FORMAT FOR FINANCIAL BID

**Quoted Annual Transmission Charges: Rs. 2897.29 Million**

**Notes:**

1. The Bidders are required to ensure compliance with the provisions of Clause 2.5.3 of this RFP.
2. Quotes to be in Rupees Millions and shall be up to two (2) decimal points.
3. The contents of this format shall be clearly typed.
4. The Financial Bid shall be digitally signed by the authorized signatory in whose name power of attorney as per Clause 2.5.2 is issued.
5. Ensure only one value for annual Transmission Charges is quoted. The same charge shall be payable every year to TSP for the term of TSA.



*Satyam Singh*



*Accepted  
Unconditionally  
R.L.*

604



**UNDERTAKING AND DETAILS OF EQUITY INVESTMENT**

**Format 1: Bidders' Undertakings**

**Date:** 24 September 2024

**Chief Executive Officer,  
REC Power Development and Consultancy Limited  
(A wholly owned subsidiary of REC Limited)  
REC Corporate Head Quarter,  
D Block, Plot No. 1-4, Sec - 29 Gurugram - 122 001**

Dear Sir,

**Sub: Bidders' Undertakings in respect of Bid for selection of Bidder as TSP to establish Inter-State transmission system for "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)"**

We hereby undertake on our own behalf and on behalf of the TSP, that if selected as the Successful Bidder for the Project:

1. The Project shall comply with all the relevant electricity laws, codes, regulations, standards and Prudent Utility Practices, environment laws and relevant technical, operational and safety standards, and we shall execute any agreements that may be required to be executed as per law in this regard.
2. We confirm that the Project shall also comply with the standards and codes as per Clause 1.6.1.2 of the RFP and the TSP shall comply with the provisions contained in the Central Electricity Regulatory Commission Grant of Connectivity, Long-term Access and Medium-term Open Access in inter-state Transmission and related matters Open Access) Regulations, 2009.
3. We give our unconditional acceptance to the RFP dated 16.03.2024 issued by the BPC and the RFP Project Documents, as amended, and undertake to ensure that the TSP shall execute all the RFP Project Documents, as per the provisions of this RFP.
4. We have submitted the Bid on the terms and conditions contained in the RFP and the RFP Project Documents. Further, the Financial Bid submitted by us is strictly as per the format provided in Annexure 21 of the RFP, without mentioning any deviations, conditions, assumptions or notes in the said Annexure.
5. Our Bid is valid up to the period required under Clause 2.8 of the RFP.



TATA POWER

6. Our Bid has been duly signed by authorized signatory and stamped in the manner and to the extent indicated in this RFP and the power of attorney / Board resolution in requisite format as per RFP has been enclosed with this undertaking.
7. Not Applicable
8. We confirm that our Bid meets the Scheduled COD of each transmission Element and the Project as specified below:

S. No.	Name of the Transmission Element	Scheduled COD in months from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1	Establishment of new 765/400 kV, 2x1500MVA GIS substation at Gopalpur in Odisha	31-12-2027	<u>29.98%</u>	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other.
2	Angul (POWERGRID) – Gopalpur 765kV D/c line along with 765kV, 1x330MVAR switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits		<u>61.95%</u>	
3	Gopalpur - Gopalpur (OPTCL) 400kV D/c (Quad) line <sup>@</sup>		<u>3.72%</u>	
4	Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS		<u>1.93%</u>	
5	Extension at 400 kV level at *Gopalpur (OPTCL) GIS S/s		<u>2.42%</u>	

**Note:**

- (a) <sup>@</sup>Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- (b) \*The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- (c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- (d) POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765 kV D/c line



Accepted  
Unconditional  
BZA



We agree that the payment of Transmission Charges for any Element irrespective of its successful commissioning on or before its Scheduled COD shall only be considered after the successful commissioning of Element(s) which are pre - required for declaring the commercial operation of such Element as mentioned in the above table.

**Scheduled COD for the Project: 31-12-2027.**

9. We confirm that our Financial Bid conforms to all the conditions mentioned in this RFP, and in particular, we confirm that:
  - a. Financial Bid in the prescribed format of Annexure 21 has been submitted duly signed by the authorized signatory
  - b. Financial Bid is unconditional.
  - c. Only one Financial Bid has been submitted.
10. We have neither made any statement nor provided any information in this Bid, which to the best of our knowledge is materially inaccurate or misleading. Further, all the confirmations, declarations and representations made in our Bid are true and accurate. In case this is found to be incorrect after our acquisition of ERES-XXXIX Power Transmission Limited, pursuant to our selection as Selected Bidder, we agree that the same would be treated as a TSP's Event of Default under Transmission Service Agreement, and relevant provisions of Transmission Service Agreement shall apply.
11. We confirm that there are no litigations or other disputes against us which materially affect our ability to fulfil our obligations with regard to the Project as per the terms of RFP Project Documents.
12. Power of attorney/ Board resolution as per Clause 2.5.2 is enclosed.

Yours faithfully

.....  
*[Handwritten Signature]*



**(Signature and stamp)**

Name: Piyush Kumar  
Date: 24 September 2024  
Place: Noida



*Accepted  
Chander Bhandari  
[Handwritten Signature]*

## Annexure P-30

Shram Shakti Bhawan, Rafi Marg,  
New Delhi, dated: the 4<sup>th</sup> November, 2024

To

The Chairman & Managing Director,  
REC Limited, Plot No. I-4, Sector-29,  
Gurugram, Haryana -122001.

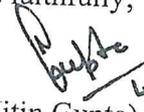
**Subject: Approval for Sale and transfer of ERES-XXXIX Power Transmission Limited to M/s The Tata Power Company Limited – Regarding.**

Sir,

I am directed to refer to RECPDCL's letter No. SEC No. 1/219/2024/2483 dated 22<sup>nd</sup> October, 2024 on the subject mentioned above and to convey the approval of competent authority for sale and transfer of 50,000 equity shares of Rs. 10 each of ERES-XXXIX Power Transmission Limited to the Successful Bidder, selected through Tariff Based Competitive Bidding Process i.e. M/s The Tata Power Company Limited.

2. This issues in supersession of letter No. 27-44/1/2024- REC DESK dated 04.10.2024.

Yours faithfully,

  
(Nitin Gupta)

Under Secretary to the Govt. of India

Tel.: 011-23711302

Copy for information and necessary action to:

1. US (Trans), MoP with the request that transmission wing should also write to concerned states informing about the project for extending all possible help in assessment of compensation to be paid to landowners and also expediting forest clearance, if involved in the project.
2. CEO, RECPDCL
3. HOD (Finance & CS), RECPDCL

# Annexure P-31

Ref No.: REC PDCL/Fin/ERES-XXXIXPTL/2024-25/ 2679

Dated: 07.11.2024

To,

**M/s. Tata Power Company Limited**

Shatabdi Bhawan, B-12 &amp; 13, Sector-4,

Noida, UP-201301

**Kind Attention:** Mr. Piyush Kumar (Authorized Signatory)**Subject: Payment of Acquisition Price towards handing over of M/s. ERES-XXXIX POWER TRANSMISSION LIMITED.**

Sir,

This is to inform that the acquisition price of M/s. ERES-XXXIX Power Transmission Limited is **Rs 18,56,22,381/- (Rupees Eighteen Crore Fifty-Six Lakh Twenty-Two Thousand Three Hundred Eighty-One Only)** as per the breakup given below:

S No	Particulars	Amount (INR)
1	Professional Fee of BPC #	17,70,00,000
2	Reimbursement of cost incurred by BPC #	81,22,381
3	Share Capital of ERES XXXIX Power Transmission Limited	5,00,000
<b>Acquisition Value/ Net Amount Payable by Bidder</b>		<b>18,56,22,381</b>

# including GST

Kindly credit the above total amount i.e., **Rs. 18,56,22,381/-** in the below mentioned Bank Account of REC Power Development and Consultancy Limited. TDS will be deposited by RECPDCL on behalf and under TAN of ERES-XXXIX Power Transmission Limited.



# 609

The acquisition price may be credited to our account through RTGS as per the following:

<b>Bank Name, Address &amp; Branch</b>	<b>IDFC First Bank Limited</b> Gurgaon Golf Course Road Branch, Ground Floor Unit no. CG-01A and 01B, Gurgaon - 122003
<b>Bank Account Name</b>	<b>REC Power Development and Consultancy Ltd</b>
<b>Bank Account No</b>	<b>10171707713</b>
<b>Bank IFSC Code No</b>	<b>IDFB0021001</b>

Thanking You,

Yours faithfully

  
(Ch V Lakshmana Charyulu)  
HoD (E&A)

## Annexure P-32

Date: 07-11-2024  
Ref: 0393NDLG00178825

To,  
CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED  
5TH TO 10TH FLOOR IRCON  
INTERNATIONAL TOWER TOWER NO 1  
PLOT NO 16 SECTOR 32  
GURUGRAM  
HARYANA  
INDIA  
400001

Sub: Issuance of Bank Guarantee

Dear Sir/Madam,

Please find enclosed Bank Guarantee issued by ICICI Bank Limited ("ICICI Bank") favoring yourself on behalf of: THE TATA POWER COMPANY LTD, FCOE,42 KISHANLAL MARWAH,ROAD,, OFF SAKI VIHAR ROAD,ANDHERI EAST, , MUMBAI, MAHARASHTRA, INDIA, 400072 ("Bank Guarantee") with the tenor and claim period as requested by you. For ease of reference the details have been reproduced as below:

Bank Guarantee No. & Date of Issue	Expiry Date	Claim Expiry Date	Currency	Amount of Bank Guarantee
0393NDLG00178825 07-11-2024	31-03-2028	31-03-2029	INR	58,00,00,000.00

We confirm that the officials who have signed the above Bank Guarantee are authorized to sign such documents on behalf of ICICI Bank. You may verify genuineness of the Bank Guarantee by writing to us at [bgconfirmation@icicibank.com](mailto:bgconfirmation@icicibank.com) for receiving the confirmation over email.

Alternatively, you may also write to the following address to verify the genuineness of the BG :

ICICI Bank Limited, Trade Finance Operations Group,  
ICICI Bank Towers, Survey No.115/27, Tower 3, South Wing, 6th Floor,  
Plot No. 12, Nanakramguda, Serilingampally, Hyderabad - 500032, Telangana

In the event of invocation, we request you to please ensure compliance with the terms and conditions of the Bank Guarantee in order to ensure timely payment. You are requested to ensure special care inter alia with respect to the following in the invocation claim letter -

- Bank Guarantee Number
- Expiry/Claim Expiry date
- Claim Amount
- Designated Bank branch for submission of invocation claim
- Any declaration / certification that may be required as part of the guarantee text.
- Any other requisite document including the original Bank Guarantee.

Please note that ICICI Bank shall not be liable under the Bank Guarantee post expiry of the claim period as requested by you.

Thanking you,

Yours faithfully,



For ICICI Bank Limited  
Authorized Signatory

**ASHUTOSH SHARMA**  
Deputy Manager-II : 491451

**ICICI Bank Limited**  
9A, Phelps Building,  
2nd Floor, Connaught Place,  
New Delhi - 110 001,  
Delhi, India.

Website [www.icicibank.com](http://www.icicibank.com)  
CIN :L65190GJ1994PLC021012

Regd. Office : ICICI Bank Tower, Near Chakli Circle,  
Old Padra Road, Vadodara 390 007,  
India.  
Corp. Office : ICICI Bank Towers, Bandra-Kurla  
Complex, Mumbai 400051, India.



BG Number: 612 2393NDLG00178825

Issuance Date: November 07, 2024 S.No. 1878847

**BANK GUARANTEE**

**ICICI Bank Limited**

(Incorporated in India)



**1 CONTRACT PERFORMANCE GUARANTEE**

**2 To, ED (BCD & Regulatory) Central Transmission Utility of India Limited 5 to10 Floor, Ircon**  
**3 International Tower, Tower no-1, Plot no -16 , Sector-32, Gurugram, Haryana-122003**

**4 In consideration of M/s The Tata Power Company Limited Bombay House, 24, Homi Mody**  
**5 Street, Mumbai - 400001 (the Selected Bidder) agreeing to undertake the obligations under**  
**6 the Transmission Service Agreement to be executed on 14 November 2024 and the other RFP**  
**7 Project Documents and the Central Transmission Utility of India Ltd. and REC Power**  
**8 Development and Consultancy Limited, agreeing to execute the RFP Project Documents with**  
**9 the Selected Bidder, regarding setting up the Project, the We ICICI Bank Ltd. a banking**  
**10 company incorporated and registered under Companies Act 1956 and having license to carry**  
**11 on banking business under the Banking Regulation Act, 1949 having its registered office at**  
**12 ICICI Bank Ltd, ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code -**  
**13 390 007, Gujarat and branch address at ICICI Bank Ltd, ICICI Centre, H T Parekh Marg,**  
**14 Backbay Reclamation, Churchgate, Mumbai- 400 020 (hereinafter referred to as "Guarantor**  
**15 Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to the Central**  
**16 Transmission Utility of India Ltd.(being the nodal agency) at 5 to10 Floor, Ircon International**  
**17 Tower, Tower no-1,Plot no -16 , Sector-32, Gurugram, Haryana-122003 forthwith on demand**  
**18 in writing from the Central Transmission Utility of India Ltd. or any Officer authorized by it in**  
**19 this behalf, any amount up to and not exceeding Rs.58,00,00,000/- (Rupees Fifty-Eight Crore**  
**20 Only) on behalf of M/s The Tata Power Company Limited.**

**21 This guarantee shall be valid and binding on the Guarantor Bank up to and including**  
**22 31.03.2028 and shall not be terminable by notice or any change in the constitution of the Bank**  
**23 or the term of the Transmission Service Agreement or by any other reasons whatsoever and**  
**24 our liability hereunder shall not be impaired or discharged by any extension of time or**  
**25 variations or alternations made, given, or agreed with or without our knowledge or consent,**  
**26 by or between parties to the respective agreement.**

**27 Our liability under this Guarantee is restricted to Rs.58,00,00,000/- (Rupees Fifty-Eight Crore**  
**28 Only). Our Guarantee shall remain in force until 31.03.2028. The Central Transmission Utility**  
**29 of India Ltd. shall be entitled to invoke this Guarantee up to three hundred sixty five (365)**  
**30 days of the last date of the validity of this Guarantee, i.e., 31.03.2029**

**31 The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to**  
**32 the written demand from the Central Transmission Utility of India Ltd. (in its role as the Nodal**

Page 1 of 3

**DEEPALI GUPTA**  
Deputy Manager-II : 453822

**For ICICI Bank Limited**  
*Deepali*  
**Authorised Signatory**  
Transaction Banking, 9A, C.P., N.D.-1

**RUCHITA SINGH**  
Manager-II S13827

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance by writing to the email ID [bgconfirmation@icicibank.com](mailto:bgconfirmation@icicibank.com) or to ICICI Bank Limited, Trade Finance Operations Group, ICICI Bank Towers, Survey No.115/27, Tower 3, South Wing, 6th Floor, Plot No. 12, Nanakramguda, Serilingampally, Hyderabad - 500032, Telangana.

Regd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat  
Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

613  
BG Number 0393NDLG00178825  
S.No 1878848  
Issuance Date: November 07, 2024

**BANK GUARANTEE**  
**ICICI Bank Limited**



(Incorporated in India)  
33 agency), made in any format, raised at the above mentioned address of the Guarantor Bank,  
34 in order to make the said payment to the Central Transmission Utility of India Ltd.

35 The Guarantor Bank shall make payment hereunder on first demand without restriction or  
36 conditions and notwithstanding any objection by ERES-XXXIX Power Transmission Limited,  
37 M/s The Tata Power Company Limited, and/or any other person. The Guarantor Bank shall not  
38 require the Central Transmission Utility of India Ltd. to justify the invocation of this BANK  
39 GUARANTEE, nor shall the Guarantor Bank have any recourse against the Central  
40 Transmission Utility of India Ltd. in respect of any payment made hereunder.

41 This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

42 The Guarantor Bank represents that this BANK GUARANTEE has been established in such  
43 form and with such content that it is fully enforceable in accordance with its terms as against  
44 the Guarantor Bank in the manner provided herein.

45 This BANK GUARANTEE shall not be affected in any manner by reason of merger,  
46 amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the  
47 constitution of the Guarantor Bank.

48 This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly  
49 the Central Transmission Utility of India Ltd. shall not be obliged before enforcing this BANK  
50 GUARANTEE to take any action in any court or arbitral proceedings against ERES-XXXIX  
51 Power Transmission Limited or The Tata Power Co. Ltd. as the case may be, to make any  
52 claim against or any demand on ERES-XXXIX Power Transmission Limited or The Tata Power  
53 Co. Ltd. as the case may be, or to give any notice to ERES-XXXIX Power Transmission Limited  
54 or The Tata Power Co. Ltd., as the case may be, or to enforce any security held by the Central  
55 Transmission Utility of India Ltd. or to exercise, levy or enforce any distress, diligence or other  
56 process against ERES-XXXIX Power Transmission Limited or The Tata Power Co. Ltd., as the  
57 case may be.

58 The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to the Central  
59 Transmission Utility of India Ltd. and may be assigned, in whole or in part, (whether  
60 absolutely or by way of security) by the Central Transmission Utility of India Ltd. to any entity  
61 to whom the Central Transmission Utility of India Ltd. is entitled to assign its rights and  
62 obligations under the Transmission Service Agreement.

63 The Guarantor Bank hereby agrees and acknowledges that the Central Transmission Utility of

Page 2 of 3

**DEEPALI GUPTA**  
Deputy Manager-II : 453822

For ICICI Bank Limited  
*Deepali*  
Authorised Signatory  
Transaction Banking, 9A, C.P., N.D.-1

**RUCHITA SINGH**  
Manager-II S13827

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance by writing to the email ID [bgconfirmation@icicibank.com](mailto:bgconfirmation@icicibank.com) or to ICICI Bank Limited, Trade Finance Operations Group, ICICI Bank Towers, Survey No.115/27, Tower 3, South Wing, 6th Floor, Plot No. 12, Nanakramguda, Serilingampally, Hyderabad – 500032, Telangana.

Regd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat  
Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

**BANK GUARANTEE**  
**ICICI Bank Limited**



(Incorporated in India) The beneficiary may have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs.58,00,00,000/- (Rupees Fifty-Eight Crore Only) and it shall remain in force until 31.03.2028, with an additional claim period of three hundred sixty five (365) days thereafter, i.e., 31.03.2029. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by M/s The Tata Power Company Limited. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if the Central Transmission Utility of India Ltd. serves upon us a written claim or demand.

In witness where of:  
Signature: [Handwritten Signature]  
Name: [Handwritten Name]  
Power of attorney No.: [Handwritten No.]

**ICICI Bank Limited**  
9A, Connaught Place  
Transaction Banking  
1st Floor, New Delhi-110 001

Date: 07/11/2024  
Place: Delhi

FOR ICICI BANK LIMITED  
Authorised Signatories

Signature: [Handwritten Signature] Signature: [Handwritten Signature]  
Name: [Handwritten Name] Name: [Handwritten Name]  
Signature Code: [Handwritten Code] Signature Code: [Handwritten Code]

**BENEFICIARY COPY**

**DEEPA GUPTA**  
Deputy Manager-II : 453822

**RUCHITA SINGH**  
Manager-II S13827

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance by writing to the email ID [bgconfirmation@icicibank.com](mailto:bgconfirmation@icicibank.com) or to ICICI Bank Limited, Trade Finance Operations Group, ICICI Bank Towers, Survey No.115/27, Tower 3, South Wing, 6th Floor, Plot No. 12, Nanakramguda, Serilingampally, Hyderabad - 500032, Telangana.

Regd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat  
Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

Date: 07-11-2024  
Ref: 0393NDLG00178825

To,  
THE TATA POWER COMPANY LTD  
FCOE,42 KISHANLAL MARWAH,ROAD,  
OFF SAKI VIHAR ROAD,ANDHERI EAST

MUMBAI  
MAHARASHTRA  
INDIA  
400072

Sub:-Issuance of Bank Guarantee

Dear Sir/Madam,

Please find enclosed the Bank Guarantee issued by ICICI Bank Limited ("ICICI Bank") favouring CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED, 5TH TO 10TH FLOOR IRCON, INTERNATIONAL TOWER TOWER NO 1, PLOT NO 16 SECTOR 32, GURUGRAM, HARYANA, INDIA, 400001 ("Bank Guarantee") at your request. Details are as under:

Bank Guarantee No. & Date of Issue	Expiry Date	Claim Expiry Date	Currency	Amount of Bank Guarantee
0393NDLG00178825 07-11-2024	31-03-2028	31-03-2029	INR	58,00,00,000.00

We confirm that the officials who have signed the above Bank Guarantee are authorized to sign such documents on behalf of ICICI Bank Limited.

Please confirm that the Bank Guarantee has been issued in the desired format. In case of any discrepancy in the format of the Bank Guarantee, please bring it to our notice before providing the same to the Beneficiary.

Yours faithfully,

  
Name

Designation

**ASHUTOSH SHARMA**  
Deputy Manager-II : 491451

# 616

## INDIA NON JUDICIAL



सत्यमेव जयते

### Government of National Capital Territory of Delhi

₹100

e-Stamp

₹100 ₹100 ₹100 ₹100

Certificate No. : IN-DL80156002903049W  
Certificate Issued Date : 01-Nov-2024 11:15 PM  
Account Reference : IMPACC (IV)/ dl736003/ DELHI/ DL-DLH  
Unique Doc. Reference : SUBIN-DL73600309059768819786W  
Purchased by : ICICI BANK LIMITED  
Description of Document : Article Bank Guarantee  
Property Description : Not Applicable  
Consideration Price (Rs.) : 0  
(Zero)  
First Party : ICICI BANK LIMITED  
Second Party : Not Applicable  
Stamp Duty Paid By : ICICI BANK LIMITED  
Stamp Duty Amount(Rs.) : 100  
(One Hundred only)

सत्यमेव जयते



₹100

Please write or type below this line

IN-DL80156002903049W

This Stamp Paper forms an Integral Part of

BG No. 0393NDLG00178825

Dated 07.11.2024

Amount INR - 58,00,00,000.00

For ICICI Bank Limited

*Deepali*  
Authorised Signatory  
Transaction Banking, 9A, C.P., N.D.-1

DEEPAI GUPTA

Deputy Manager: 453822

RUCHITA SINGH  
Manager-II S13827

- The authenticity of this Stamp certificate should be verified at 'www.shcilestamp.com' or using e-Stamp Mobile App of Stock Holding. Any discrepancy in the details on this Certificate and as available on the website / Mobile App renders it invalid.
- The onus of checking the legitimacy is on the users of the certificate.

**BANK GUARANTEE**  
**ICICI Bank Limited**  
(Incorporated in India)



1 CONTRACT PERFORMANCE GUARANTEE

2 To, ED (BCD & Regulatory) Central Transmission Utility of India Limited 5 to10 Floor, Ircon  
3 International Tower, Tower no-1, Plot no -16 , Sector-32, Gurugram, Haryana-122003

4 In consideration of M/s The Tata Power Company Limited Bombay House, 24, Homi Mody  
5 Street, Mumbai - 400001 (the Selected Bidder) agreeing to undertake the obligations under  
6 the Transmission Service Agreement to be executed on 14 November 2024 and the other RFP  
7 Project Documents and the Central Transmission Utility of India Ltd. and REC Power  
8 Development and Consultancy Limited, agreeing to execute the RFP Project Documents with  
9 the Selected Bidder, regarding setting up the Project, the We ICICI Bank Ltd. a banking  
10 company incorporated and registered under Companies Act 1956 and having license to carry  
11 on banking business under the Banking Regulation Act, 1949 having its registered office at  
12 ICICI Bank Ltd, ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code -  
13 390 007, Gujarat and branch address at ICICI Bank Ltd, ICICI Centre, H T Parekh Marg,  
14 Backbay Reclamation, Churchgate, Mumbai- 400 020 (hereinafter referred to as "Guarantor  
15 Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to the Central  
16 Transmission Utility of India Ltd.(being the nodal agency) at 5 to10 Floor, Ircon International  
17 Tower, Tower no-1,Plot no -16 , Sector-32, Gurugram, Haryana-122003 forthwith on demand  
18 in writing from the Central Transmission Utility of India Ltd. or any Officer authorized by it in  
19 this behalf, any amount up to and not exceeding Rs.58,00,00,000/- (Rupees Fifty-Eight Crore  
20 Only) on behalf of M/s The Tata Power Company Limited.

21 This guarantee shall be valid and binding on the Guarantor Bank up to and including  
22 31.03.2028 and shall not be terminable by notice or any change in the constitution of the Bank  
23 or the term of the Transmission Service Agreement or by any other reasons whatsoever and  
24 our liability hereunder shall not be impaired or discharged by any extension of time or  
25 variations or alternations made, given, or agreed with or without our knowledge or consent,  
26 by or between parties to the respective agreement.

27 Our liability under this Guarantee is restricted to Rs.58,00,00,000/- (Rupees Fifty-Eight Crore  
28 Only). Our Guarantee shall remain in force until 31.03.2028. The Central Transmission Utility  
29 of India Ltd. shall be entitled to invoke this Guarantee up to three hundred sixty five (365)  
30 days of the last date of the validity of this Guarantee, i.e., 31.03.2029

31 The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to  
32 the written demand from the Central Transmission Utility of India Ltd. (in its role as the Nodal

Page 1 of 3

**DEEPALI GUPTA**  
Deputy Manager-II : 453822

For ICICI Bank Limited  
*Deepali*  
Authorized Signatory  
Transaction Banking, 9A, C.P., N.D.-1

**RUCHITA SINGH**  
Manager-II S13827

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance by writing to the email ID [bgconfirmation@icicibank.com](mailto:bgconfirmation@icicibank.com) or to ICICI Bank Limited, Trade Finance Operations Group, ICICI Bank Towers, Survey No.115/27, Tower 3, South Wing, 6th Floor, Plot No. 12, Nanakramguda, Serilingampally, Hyderabad - 500032, Telangana.

Regd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat  
Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

Note : This duplicate copy is for the exclusive records of the applicant and any request including claim made by any person based on this copy shall not be honoured by ICICI Bank.

**BANK GUARANTEE**  
**ICICI Bank Limited**



(Incorporated in India)

33 agency), made in any format, raised at the above mentioned address of the Guarantor Bank,  
34 in order to make the said payment to the Central Transmission Utility of India Ltd.

35 The Guarantor Bank shall make payment hereunder on first demand without restriction or  
36 conditions and notwithstanding any objection by ERES-XXXIX Power Transmission Limited,  
37 M/s The Tata Power Company Limited, and/or any other person. The Guarantor Bank shall not  
38 require the Central Transmission Utility of India Ltd. to justify the invocation of this BANK  
39 GUARANTEE, nor shall the Guarantor Bank have any recourse against the Central  
40 Transmission Utility of India Ltd. in respect of any payment made hereunder.

41 This BANK GUARANTEE shall be interpreted in accordance with the laws of India.

42 The Guarantor Bank represents that this BANK GUARANTEE has been established in such  
43 form and with such content that it is fully enforceable in accordance with its terms as against  
44 the Guarantor Bank in the manner provided herein.

45 This BANK GUARANTEE shall not be affected in any manner by reason of merger,  
46 amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the  
47 constitution of the Guarantor Bank.

48 This BANK GUARANTEE shall be a primary obligation of the Guarantor Bank and accordingly  
49 the Central Transmission Utility of India Ltd. shall not be obliged before enforcing this BANK  
50 GUARANTEE to take any action in any court or arbitral proceedings against ERES-XXXIX  
51 Power Transmission Limited or The Tata Power Co. Ltd. as the case may be, to make any  
52 claim against or any demand on ERES-XXXIX Power Transmission Limited or The Tata Power  
53 Co. Ltd. as the case may be, or to give any notice to ERES-XXXIX Power Transmission Limited  
54 or The Tata Power Co. Ltd. as the case may be, or to enforce any security held by the Central  
55 Transmission Utility of India Ltd. or to exercise, levy or enforce any distress, diligence or other  
56 process against ERES-XXXIX Power Transmission Limited or The Tata Power Co. Ltd., as the  
57 case may be.

58 The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to the Central  
59 Transmission Utility of India Ltd. and may be assigned, in whole or in part, (whether  
60 absolutely or by way of security) by the Central Transmission Utility of India Ltd. to any entity  
61 to whom the Central Transmission Utility of India Ltd. is entitled to assign its rights and  
62 obligations under the Transmission Service Agreement.

63 The Guarantor Bank hereby agrees and acknowledges that the Central Transmission Utility of

Page 2 of 3

**DEEPALI GUPTA**  
Deputy Manager-II : 453822

For ICICI Bank Limited  
*Deepali*  
Authorised Signatory  
Transaction Banking, 9A, C.P., N.D.-1

**RUCHITA SINGH**  
Manager-II S13827

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance by writing to the email ID [bgconfirmation@icicibank.com](mailto:bgconfirmation@icicibank.com) or to ICICI Bank Limited, Trade Finance Operations Group, ICICI Bank Towers, Survey No.115/27, Tower 3, South Wing, 6th Floor, Plot No. 12, Nanakramguda, Serilingampally, Hyderabad – 500032, Telangana.

Regd. Office: ICICI Bank Ltd., ICICI Bank Tower, Near Chakli Circle, Old Padra Road, Vadodara, Pin code- 390 007, Gujarat  
Phone : +91-265-6722286, CIN L65190GJ1994PLC021012

Note : This duplicate copy is for the exclusive records of the applicant and any request including claim made by any person based on this copy shall not be honoured by ICICI Bank.

619

BG Number: 0393NDLG00178825 1878849

Issuance Date: November 07, 2024

**BANK GUARANTEE  
ICICI Bank Limited**



(Incorporated in India)

64 India Ltd. shall have a right to invoke this Bank Guarantee either in part or in full, as it may  
65 deem fit.

66 Notwithstanding anything contained hereinabove, our liability under this Guarantee is  
67 restricted to Rs.58,00,00,000/- (Rupees Fifty-Eight Crore Only) and it shall remain in force until  
68 31.03.2028, with an additional claim period of three hundred sixty five (365) days thereafter,  
69 i.e., 31.03.2029. This BANK GUARANTEE shall be extended from time to time for such period,  
70 as may be desired by M/s The Tata Power Company Limited. We are liable to pay the  
71 guaranteed amount or any part thereof under this Bank Guarantee only if the Central  
72 Transmission Utility of India Ltd. serves upon us a written claim or demand.

73 In witness where of:  
74 Signature .....  
75 Name: .....  
76 Power of attorney No.: .....

*ICICI Bank Limited*  
9A, Connaught Place  
Transaction Banking  
1st Floor, New Delhi-110 001

77 Date:07/11/2024

78 Place:Delhi

79 FOR ICICI BANK LIMITED

80 Authorised Signatories

81 Signature: *Deepali* Signature: *Ruchita*

82 Name: *Deepali* Name: *Ruchita*

83 Signature Code: *Deepali* Signature Code: *Ruchita*

**DEEPALI GUPTA**  
Deputy Manager-II : 453822

**RUCHITA SINGH**  
Manager-II S13827

DUPLICATE COPY  
APPLICANT COPY

The beneficiary may, in its own interest, verify the genuineness of the bank guarantee by seeking confirmation of its issuance by writing to the email ID [bgconfirmation@icicibank.com](mailto:bgconfirmation@icicibank.com) or to ICICI Bank Limited, Trade Finance Operations Group, ICICI Bank Towers, Survey No.115/27, Tower 3, South Wing, 6th Floor, Plot No. 12, Nanakramguda, Serilingampally, Hyderabad – 500032, Telangana.

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**Annexure P-33**

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**SHARE PURCHASE AGREEMENT**

**BETWEEN**

**REC POWER DEVELOPMENT AND CONSULTANCY LIMITED**

**AND**

**ERES-XXXIX POWER TRANSMISSION LIMITED**

**AND**

**THE TATA POWER COMPANY LIMITED**

---

**Dated: 14<sup>th</sup> November, 2024**

---







**WHEREAS:**

- A. The Ministry of Power, Government of India, vide its notification no. 943 [F. No. 15/3/2018-Trans-Pt(1)] dated 01.03.2024 has appointed REC Power Development and Consultancy Limited to be the Bid Process Coordinator (BPC) for the purpose of selection of Bidder as Transmission Service Provider (TSP) to establish “**Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**” through tariff based competitive bidding process (hereinafter referred to as the “Project”).
- B. In accordance with the Bidding Guidelines, the BPC had initiated a competitive bidding process through issue of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project comprising of the Elements mentioned in **Schedule 2** of the Transmission Service Agreement (TSA). BPC had initiated this process in accordance with and on the terms and conditions mentioned in the RFP Project Documents (as defined hereinafter).
- C. BPC has incorporated the Company and has undertaken the preliminary studies, obtained certain approvals, etc. regarding the Project on behalf of the Company
- D. REC PDCL along with the Nominees hold one hundred per cent (100%) of the total issued and paid up equity share capital of the Company.
- E. Pursuant to the said Bid Process, The Tata Power Company Limited has been identified as the Selected Bidder vide Letter of Intent dated 15<sup>th</sup> October 2024 issued by the BPC in favour of the Selected Bidder.
- F. As envisaged in the RFP, the Shares Seller (as defined hereinafter) has agreed to sell the Sale Shares (as defined hereinafter) to the Selected Bidder and the Selected Bidder has agreed to purchase the Sale Shares from the Shares Seller, subject to and on the terms and conditions set forth in this Agreement.

**NOW THEREFORE, IN CONSIDERATION OF THE MUTUAL COVENANTS AND AGREEMENTS SET FORTH IN THIS AGREEMENT AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, THE PARTIES HEREBY AGREE AS FOLLOWS:**



1. DEFINITIONS

- 1.1 Capitalised terms in this Agreement, unless defined in this Agreement shall, in so far as the context admits, have the same meaning in this Agreement as has been ascribed to them in the TSA.
- 1.2 Additionally, the following terms shall have the meaning hereinafter respectively assigned to them herein below:
- (i) **“Acquisition Price”** shall mean INR 18,56,22,381 (Rupees Eighteen Crore Fifty-Six Lakh Twenty-Two Thousand Three Hundred Eighty-One Only), which is the aggregate consideration payable by the Selected Bidder towards purchase of the Sale Shares at par and for taking over of all assets and liabilities of the Company as on the Closing Date subject to adjustment as per the audited accounts of the Company as on the Closing Date;
  - (ii) **“Agreement”** or **“the Agreement”** or **“this Agreement”** shall mean this Share Purchase Agreement and shall include the recitals and/or annexures attached hereto, and the contracts, certificates, disclosures and other documents to be executed and delivered pursuant hereto, if any, and any amendments made to this Agreement by the Parties in writing;
  - (iii) **“Bid Process”** shall mean the competitive bidding process initiated by the BPC, by issuance of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project in accordance with and on the terms and conditions mentioned in the RFP Project Documents;
  - (iv) **“Board”** shall mean the board of directors of the Company;
  - (v) **“Closing Date”** shall mean a mutually agreed date between the Parties falling within the period as mentioned in clause 2.15.2 of RFP or on failure of such mutual agreement between the Parties shall be the date falling on the last date of such period;
  - (vi) **“Encumbrance”** shall mean any mortgage, pledge, lien, charge, security assignment, hypothecation, trust, encumbrance or any other agreement having the effect of creating security interest;
  - (vii) **“Letter of Intent”** shall have the meaning ascribed thereto under the Bid Documents;
  - (viii) **“Nominees”** shall mean the Persons, who are named in Annexure A of this Agreement, holding the Sale Shares as nominees of REC PDCL;



- (ix) “**Party**” shall mean REC PDCL, Company and the Selected Bidder, referred to individually, and “**Parties**” shall mean REC PDCL, Company and the Selected Bidder collectively referred to, as relevant;
- (x) “**Person**” shall include an individual, an association, a corporation, a partnership, a joint venture, a trust, an unincorporated organisation, a joint stock company or other entity or organisation, including a government or political subdivision, or an agency or instrumentality thereof, and/or any other legal entity;
- (xi) “**RFP Project Documents**” shall mean the following documents, referred to collectively:
- a. Transmission Service Agreement; and
  - b. this Agreement.
- (xii) “**Representations and Warranties**” shall mean the representations and warranties mentioned in Clause 4 hereto;
- (xiii) “**RoC**” shall mean the Registrar of Companies;
- (xiv) “**Sale Shares**” shall mean 50,000 (Fifty Thousand) shares, representing one hundred percent (100%) of the total issued, subscribed and fully paid-up equity share capital of the Company held by the Shares Seller and Nominees as more particularly described in Annexure A attached hereto;
- (xv) “**Shares**” shall mean the fully paid-up equity shares of Company, of face value Rs. 10 each;
- (xvi) “**Shares Seller**” shall mean REC PDCL; and
- (xvii) “**Transmission Service Agreement**” or “**TSA**” means the agreement titled ‘Transmission Service Agreement’ to be executed on 14<sup>th</sup> November, 2024 between Central Transmission Utility of India Limited (CTUIL) and ERES-XXXIX Power Transmission Limited, pursuant to which the TSP shall build, own, operate and transfer the Project and make available the assets of the Project on a commercial basis.

### 1.3 Interpretation Clause

Unless the context otherwise requires, the provisions of the TSA relating to the interpretation of the TSA shall apply to this Agreement as if they were set out in full in this Agreement and to this end are incorporated herein by reference.



## 2. TRANSFER OF SHARES

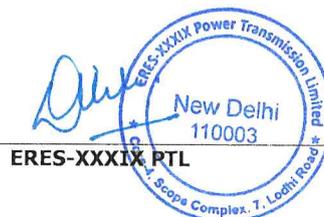
- 2.1 Subject to the terms and conditions of this Agreement, the Shares Seller agrees to sell and transfer to the Selected Bidder and the Selected Bidder hereby agrees to purchase from the Shares Seller, the Sale Shares free from Encumbrances together with all assets and liabilities of the Company with rights and benefits attached thereto in consideration of the Acquisition Price and the covenants, undertakings and the agreements of the Selected Bidder contained in this Agreement.
- 2.2 The Shares Seller hereby undertakes to cause the Nominees to transfer part of the Sale Shares held by them as nominees of the Shares Seller to the Nominees of Selected Bidder and execute any documents required to deliver good title to the Sale Shares to the Selected Bidder.

## 3. CLOSING

- 3.1 Prior to the Closing Date, the Selected Bidder shall provide to the Shares Seller, valid share transfer forms duly stamped with requisite amount of stamp duty payable on the transfer of the Sale Shares ("**Share Transfer Forms**").
- 3.2 On the Closing Date, the Shares Seller shall hand over to the Selected Bidder or its authorised representative, the original share certificates representing the Sale Shares ("**Sale Share Certificates**") executed by the Shares Seller and the Nominees, simultaneously against the Selected Bidder handing over to the Shares Seller, demand drafts drawn in favour of the Shares Seller or by confirmation of RTGS transfer in favour of the Shares Seller, for the Acquisition Price payable to it.

Provided that prior to the handing over of the Sale Share Certificates to the Selected Bidder as mentioned above, the Selected Bidder shall provide satisfactory evidence to REC PDCL that on the Closing Date, the Selected Bidder has furnished the Contract Performance Guarantee to Central Transmission Utility of India Limited (CTUIL) and is in a position to comply with all other requirements of Clause 2.15.2 of the RFP.

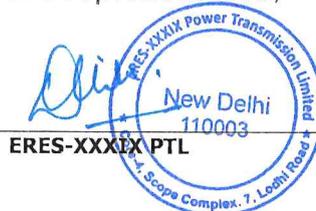
- 3.3 The Selected Bidder shall immediately upon receiving the Sale Share Certificates and the Share Transfer Forms, duly execute the Share Transfer Forms and duly lodge the Share Transfer Forms and the Share Certificates with the Company along with the names of its nominees to be appointed on the Board of the Company and the address within the jurisdiction of the Registrar of Companies of New Delhi and Haryana, which would be the new registered office of the Company. The Company shall, upon receipt of the said documents from the Selected Bidder, do the following:
- (i) Immediately on the Closing Date convene a meeting of the Board, wherein the Board shall pass the following necessary resolutions:



- (a) approving the transfer of the Shares constituting the Sale Shares from the Shares Seller and the Nominees to the name of the **The Tata Power Company Limited** and its nominees and transfer of all assets and liabilities of the Company as on Closing Date;
- (b) approving the **The Tata Power Company Limited** and its nominees as the members of the Company and entering the name of the **The Tata Power Company Limited** and its nominees in the register of members.
- (c) changing the address of the registered office of the Company to the new address as provided by the Selected Bidder as per clause 3.3 above.
- (d) appointing the nominees of the Selected Bidder on the Board and accepting the resignations of the other existing Directors on the Board and the Chair of the meeting which was taken by one of the existing Directors shall be vacated and appointment of a new Chairman who shall be one of the newly appointed Director, for the rest of the meeting.

Immediately pursuant to the acceptance of resignation of the existing Directors and appointment of new Chairman, the newly constituted Board of Directors shall continue with the meeting and pass the following resolution:

- (e) terminating all the authorizations granted regarding the business and/or operations of the Company or the operations of the bank accounts of the Company, with prospective effect; and
  - (f) acknowledging and accepting the terms and conditions as contained in the executed copies of the RFP Project Documents and to abide by the provisions contained therein.
- (ii) Enter the name of the **The Tata Power Company Limited** and its nominees as the legal and beneficial owner of the Sale Shares, free of all Encumbrances, in the register of members of the Company;
  - (iii) Make the necessary endorsements on the Sale Share Certificates, indicating the name of the **The Tata Power Company Limited** and its nominees as the legal and beneficial owner of the Sale Shares evidenced there under;
  - (iv) Return the original Sale Share Certificates, duly endorsed in the name of the **The Tata Power Company Limited** and its nominees, to the **The Tata Power Company Limited** and its nominees, as the case may be or its authorized representative;



- (v) Handover all the statutory registers and records, if any, of the Company to the Selected Bidder.
- (vi) Handover certified true copies of the Board resolution passed by the Company as per (i) (a) to (i) (f) of Clause 3.3 (i) to the Central Transmission Utility of India Limited (CTUIL).

3.4 The Parties to this Agreement agree to take all measures that may be required to ensure that all the events contemplated in the **Clauses 3.1 to 3.3** above on the Closing Date are completed on the same day.

Notwithstanding the provisions of **Clause 3.3** hereto, all proceedings to be taken and all documents to be executed and delivered by the Parties at the Closing Date shall be deemed to have been taken and executed simultaneously and no proceedings shall be deemed to have been taken nor documents executed or delivered until all have been taken, executed and delivered.

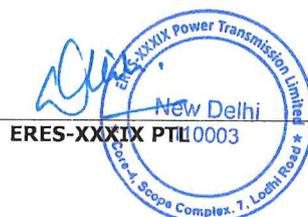
3.5 The Selected Bidder hereby acknowledges and agrees that after the date of acquisition of one hundred percent (100%) of the Shares of the Company by the Selected Bidder as per Clause 3.3, (a) the authority of the BPC in respect of the Bid Process shall forthwith cease and any actions to be taken thereafter regarding the Bid Process will be undertaken by the Central Transmission Utility of India Limited (CTUIL) themselves, (b) all rights and obligations of the BPC shall cease forthwith, (c) all other rights and obligations of the Company shall be of the TSP and (d) any decisions taken by the BPC on behalf of the Company prior to the date of acquisition, shall continue to be binding on the Company and/or Central Transmission Utility of India Limited (CTUIL) as the case may be.

3.6 This Agreement shall be effective from the date of its signing by the Parties and shall remain in force until all the obligations of the respective Parties under Clause 3.3 hereto are fulfilled.

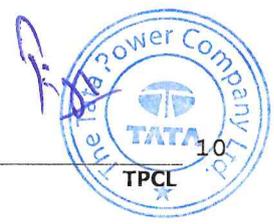
#### 4. REPRESENTATIONS AND WARRANTIES

4.1 The Selected Bidder hereby represents and warrants to the Shares Seller that:

4.1.1 The Selected Bidder has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein, and this Agreement has been duly and validly executed and delivered by the Selected Bidder and constitutes its legal, valid and binding obligations, enforceable against it in accordance with its terms;



- 4.1.2 The execution, delivery and performance of this Agreement by the Selected Bidder (i) will not violate or contravene any provision of the Memorandum of Association or Articles of the Selected Bidder, (ii) will not violate or contravene any law, statute, rule, regulation, licensing requirement, order, writ, injunction or decree of any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority by which the Selected Bidder is bound or by which any of its and/or their properties or assets are bound, and (iii) except to the extent that the same have been duly and properly completed or obtained, will not require any filing with, or permit, consent or approval of or license from, or the giving of any notice to, any court, governmental instrumentality or other regulatory, governmental or public body, agency or authority, joint venture party, or any other entity or person whatsoever; and
- 4.1.3 The Selected Bidder is not restricted in any manner whatsoever, including without limitation, on account of any judicial or governmental order, action or proceeding, or any contractual obligation assumed by the Selected Bidder, from purchasing the Sale Shares from the Shares Seller in the manner provided for in this Agreement.
- 4.2 The Shares Seller hereby represents and warrants to the Selected Bidder that;
- 4.2.1 The Shares Seller and the Nominees are the legal and beneficial owners of the Sale Shares, free and clear of any Encumbrance and the delivery to the Selected Bidder of the Sale Shares pursuant to the provisions of this Agreement will transfer to the Selected Bidder a good title to the Sale Shares.
- 4.2.2 The Shares Seller has full legal right, power and authority to enter into, execute and deliver this Agreement and to perform the obligations, undertakings and transactions set forth herein. The execution, delivery and performance of this Agreement will not violate the Memorandum and Articles of Association of the Shares Seller or contravene any contract by which it is bound.
- 4.2.3 The Shares Seller has obtained requisite authorizations to sell and transfer the Sale Shares to the Selected Bidder. The Shares Seller also represent that it is not prevented from transferring and selling the Sale Shares. Also, to the best of its knowledge, the Sale Shares are not the subject matter of any claim or pending proceeding or threatened by any legal proceeding made by any third party.
- 4.3 Except as specified in Clause 4.2 above, the Shares Seller shall not be deemed to have, made any representation or warranty whatsoever, whether express or implied, in relation to the Sale Shares or Company, including but not limited to any implied warranty or representation as to the business or affairs of Company.



- 4.4 The Representations and Warranties are given as at the date of this Agreement except that where a Representation and Warranty is expressed to be made as at another date, the Representation and Warranty is given with respect to that date only.
- 4.5 Each Representation and Warranty is to be construed independently of the others and is not limited by reference to any other Warranty. The Representations, Warranties and undertakings contained in this **Clause 4** hereto or in any document delivered pursuant to or in connection with this Agreement are continuing in nature and shall survive the Closing Date for a period of one (1) year.
- 4.6 The Parties represent to each other that all Representations and Warranties provided herein by the respective Party shall be true as of Closing Date.

## 5. OBLIGATIONS OF THE SELECTED BIDDER

The Selected Bidder agrees that the Shares Seller shall not be liable in any manner, nor shall it assume any responsibility or liability whatsoever, in respect of the business of the Company and its operations or activities, arising after the Closing Date, to any Person or any authority, central, state, local or municipal or otherwise and the same shall be the sole responsibility of the Selected Bidder.

## 6. MISCELLANEOUS

### 6.1 NOTICES

- a) All notices to be given under this Agreement shall be in writing and in the English language.
- b) All notices must be delivered personally or by registered or certified mail or by recognised courier to the addresses below:

Selected Bidder: **The Tata Power Company Limited,**  
Bombay House, 24, Homi Mody Street, Mumbai  
400001

REC PDCL: **REC Power Development and Consultancy Limited**  
Core-4, SCOPE Complex, 7, Lodhi Road, New  
Delhi-110003

Company: **ERES-XXXIX Power Transmission Limited**  
Core-4, SCOPE Complex, 7, Lodhi Road, New  
Delhi-110003

- c) Any Party may by notice of at least fifteen (15) days to the other Parties change the address and / or addresses to which such notices and communications to it are to be delivered or mailed



## 6.2 RESOLUTION OF DISPUTES

- 6.2.1 If any dispute arises between the Parties, in connection with the validity, interpretation, implementation or alleged breach of any provision of this Agreement ("Dispute"), the disputing Parties hereto shall endeavor to settle such Dispute amicably. The attempt to bring about an amicable settlement shall be considered to have failed if not resolved within sixty (60) days from the date of the Dispute.
- 6.2.2 If the Parties are unable to amicably settle the Dispute in accordance with Clause 6.2.1 within the period specified therein, any of the Parties shall be entitled to within thirty (30) days after expiry of the aforesaid period, refer the Dispute to the Chief Executive Officer/Director of REC PDCL and Chief Executive/ Managing Director of the Selected Bidder for resolution of the said Dispute. The attempt to bring about such resolution shall be considered to have failed if not resolved within thirty (30) days from the date of receipt of a written notification in this regard.
- 6.2.3 In the event the Dispute is not settled in accordance with Clause 6.2.2 above, any Party to the Dispute shall be entitled to serve a notice invoking this Clause and making a reference to a sole arbitrator. If the Parties to the Dispute cannot agree as to the appointment of the sole arbitrator within thirty (30) days of receipt of the notice of the Party making the reference, then the Shares Seller along with the Company shall appoint one arbitrator and the Selected Bidder shall appoint one arbitrator and the two arbitrators, so appointed shall appoint a third arbitrator. However, after the Closing Date, in such an event the Shares Seller shall appoint one arbitrator and the Selected Bidder along with the Company shall appoint one arbitrator and the two arbitrators, so appointed shall appoint the third arbitrator.
- 6.2.4 The place of the arbitration shall be New Delhi. The Arbitration proceedings shall be governed by the Arbitration and Conciliation Act, 1996.
- 6.2.5 The proceedings of arbitration shall be in English language.
- 6.2.6 The arbitrator's award shall be substantiated in writing. The arbitrators shall also decide on the costs of the arbitration proceedings. In case the arbitrators have not decided on the costs of the arbitration proceedings, each Party to the Dispute shall bear its own costs, in relation to the arbitration proceedings.



### 6.3 AUTHORISED PERSON

For the purposes of this Agreement, the Selected Bidder is represented by Shri. Piyush Kumar, Head BD-T&D (International), pursuant to an authorization granted to Shri. Piyush Kumar, Head BD-T&D (International) through necessary Board resolutions. Further, Shri. Piyush Kumar, Head BD-T&D (International) is also authorized by such resolutions to take any decision which may be required to be taken, do all acts and execute all documents which are or may be required by the Selected Bidder for the proper and effective fulfillment of the rights and obligations under this Agreement. Any action taken or document executed by Shri. Piyush Kumar, Head BD-T&D (International) shall be deemed to be acts done or documents executed by the Selected Bidder and shall be binding on the Selected Bidder.

### 6.4 RESERVATION OF RIGHTS

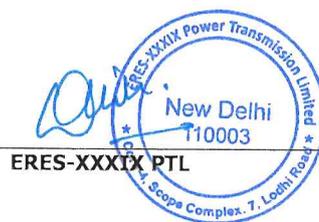
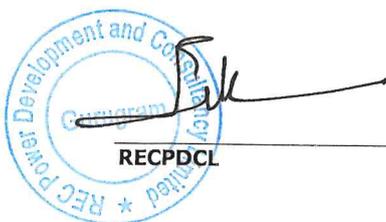
No forbearance, indulgence or relaxation or inaction by any Party at any time to require performance of any of the provisions of this Agreement shall in any way affect, diminish or prejudice the right of such Party to require performance of that provision, and any waiver or acquiescence by any Party of any breach of any of the provisions of this Agreement shall not be construed as a waiver or acquiescence of any continuing or succeeding breach of such provisions, a waiver of any right under or arising out of this Agreement or acquiescence to or recognition of rights other than that expressly stipulated in this Agreement.

### 6.5 CUMULATIVE RIGHTS

All remedies of either Party under this Agreement whether provided herein or conferred by statute, civil law, common law, custom or trade usage, are cumulative and not alternative and may be enforced successively or concurrently.

### 6.6 PARTIAL INVALIDITY

If any provision of this Agreement or the application thereof to any person or circumstance shall be invalid or unenforceable to any extent, the remainder of this Agreement and the application of such provision to persons or circumstances other than those as to which it is held invalid or unenforceable shall not be affected thereby, and each provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law. Any invalid or unenforceable provision of this Agreement shall be replaced with a provision, which is valid and enforceable and most nearly reflects the original intent of the unenforceable provision.



## 6.7 TERMINATION

If (i) the Closing does not occur on the Closing Date for any reason whatsoever, or (ii) the Letter of Intent is withdrawn or terminated for any reason, or (iii) due to termination of the TSA by the Central Transmission Utility of India Limited (CTUIL) in accordance with Article 3.3.2 or Article 13 of the TSA thereof, REC PDCL shall have a right to terminate this Agreement forthwith by giving a written notice to the other Parties hereto.

## 6.8 AMENDMENTS

No modification or amendment of this Agreement and no waiver of any of the terms or conditions hereof shall be valid or binding unless made in writing and duly executed by all the Parties.

## 6.9 ASSIGNMENT

This Agreement and the rights and liabilities hereunder shall bind and inure to the benefit of the respective successors of the Parties hereto, but no Party hereto shall assign or transfer its rights and liabilities hereunder to any other Person without the prior written consent of the other Parties, which will not be unreasonably withheld.

## 6.10 ENTIRE AGREEMENT

This Agreement constitutes the entire Agreement between the Parties with respect to the subject matter herein and supersedes and cancels any prior oral or written agreement, representation, understanding, arrangement, communication or expression of intent relating to the subject matter of this Agreement.

## 6.11 COSTS

Each of the Parties hereto shall pay their own costs and expenses relating to the negotiation, preparation and execution of this Agreement and the transactions contemplated by this Agreement.

The Selected Bidder shall be liable to bear and pay the costs in respect of this Agreement and transfer of Sale Shares.

## 6.12 RELATIONSHIP

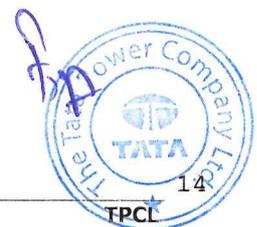
None of the provisions of this Agreement shall be deemed to constitute a partnership between the Parties hereto and no Party shall have any authority to bind the other Party otherwise than under this Agreement or shall be deemed to be the agent of the other in any way.



RECPDCL



ERES-XXXIX PTL



TPCIL

### 6.13 GOVERNING LAW AND JURISDICTION

This Agreement shall be governed by and construed in accordance with the laws of India and shall be subject to the exclusive jurisdiction of the courts of Delhi.

### 6.14 COUNTERPARTS

This Agreement may be executed in counterparts by the Parties and each fully executed counterpart shall be deemed to be original.

### 6.15 CONFIDENTIALITY

The Parties undertake to hold in confidence and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- (a) to their professional advisors;
- (b) to their officers, employees, agents or representatives, who need to have access to such information for the proper performance of their activities;
- (c) disclosures required under Law;

without the prior written consent of the other Parties.

Provided that the Central Transmission Utility of India Limited (CTUIL) and REC PDCL may at any time, disclose the terms and conditions of transactions contemplated hereby to any person, to the extent stipulated under the law or the Bidding Guidelines.

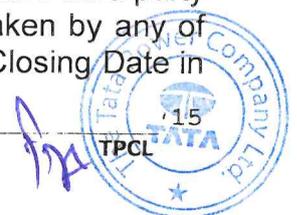
### 6.16 INDEMNIFICATION

- The Parties hereby agree that transfer of Sale Shares to the Selected Bidder shall vest all the rights, privileges, licenses, responsibilities, liabilities and other obligations pertaining to the Company in the Selected Bidder.
- The Selected Bidder hereby agrees that the Selected Bidder shall not be entitled to any claims or initiate any legal proceedings by itself or through the Transmission Service Provider against the Shares Seller, its directors, officers, employees and the subscribers including the members of any committees appointed by them in respect of any actions or decisions taken by any of them up to the Closing Date in furtherance of the Project referred to in recital A of this Agreement.
- Further, the Selected Bidder hereby indemnifies and holds harmless at all times the Shares Seller against all past, present and future third party claims and liabilities arising out of actions or decisions taken by any of the persons or bodies referred to in Clause 6.3 up to the Closing Date in



RECPDCL

New Delhi  
ERES-XXXIX PTL 110003



TPCL

furtherance of the Project referred to above or otherwise concerning the Company. All such actions shall be defended by the Selected Bidder either itself or through the TSP at its own cost.

- The Parties hereby agree that the provisions of this clause shall survive the termination of this Agreement.

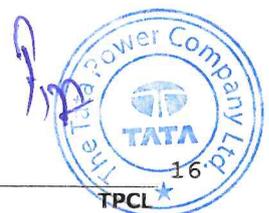
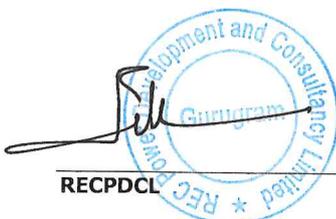
## 6.17 SURVIVAL

The provisions of Clause 1 (Definitions and Interpretation), Clause 4 (Representations and Warranties), Clause 6.2 (Resolution of Disputes), Clause 6.7 (Termination), Clause 6.15 (Confidentiality), Clause 6.16 (Indemnification) and other representations, warranties, covenants and provisions contained herein that by their nature are intended to survive, shall survive the termination of this Agreement

## 6.18 FORCE MAJEURE

No party shall be liable for its inability or delay in performing any of its obligations hereunder if such delay is caused by circumstances beyond the reasonable control of the party including delay caused through flood, riot, Act of God, lighting civil commotion, storm, tempest and earthquake.

**IN WITNESS WHEREOF, THE PARTIES HERETO HAVE CAUSED THIS AGREEMENT TO BE DULY EXECUTED AND DELIVERED AS OF THE DAY AND YEAR FIRST ABOVE WRITTEN**



SIGNED AND DELIVERED by the within named **REC POWER DEVELOPMENT AND CONSULTANCY LIMITED** by the hand of Sh. TSC Bosh, CEO

(Authorised pursuant to the resolution passed by its Board of Directors in its meeting held on 21<sup>st</sup> October, 2024)

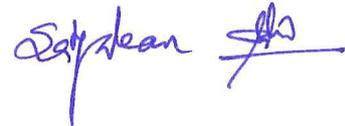
  


IN THE PRESENCE OF:

WITNESS:

(Name and address)

1. SATYABAN SAHOO  
GM (E&C)



(Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003)

2. Anil Kumar Perala  
Chief Manager (Engg)



(Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003)

SIGNED AND DELIVERED by the within named **ERES-XXXIX POWER TRANSMISSION LIMITED** by the hand of Sh. Debasis Mitra, Director

(Authorised pursuant to the resolution passed by its Board of Directors in its meeting held on 14<sup>th</sup> November, 2024)

WITNESS:

(Name and address)

CCH. V. LAKSHMANA CHARYULU  
GM & HOD (F), RECPDCL


  
(Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003)

RITU MADAN ARORA  
CM (CS)  
REC LIMITED.



(Core-4, SCOPE Complex, 7, Lodhi Road, New Delhi-110003)

SIGNED AND DELIVERED by the within named **THE TATA POWER COMPANY LIMITED** by the hand of Shri Piyush Kumar, Head BD-T&D (International)

(Authorised pursuant to the resolution passed by the Committee of Directors on 8<sup>th</sup> September, 2024)



WITNESS:  
(Name and address)

1. NEERAJ SRIVASTAVA  
Gr- HEAD - BD (T&D)

Shatabdi Bhawan, B - 12 & 13,  
Sector 4, Noida, U. P. - 201301

2. AJEY SUHAS DESAI  
HEAD PROJECT COORDINATION (TBCB)

Shatabdi Bhawan, B - 12 & 13,  
Sector 4, Noida, U. P. - 201301

**ANNEXURE A****DESCRIPTION OF THE SALE SHARES**

S. NO.	NAME OF THE SHAREHOLDER(s)	NUMBER OF EQUITY SHARES HELD	PERCENTAGE OF THE TOTAL PAID UP EQUITY CAPITAL
1.	REC POWER DEVELOPMENT AND CONSULTANCY LIMITED	49,994	99.988
2.	Shri Thangarajan Subash Chandira Bosh*	1	0.002
3.	Shri Mukul Agarwal*	1	0.002
4.	Shri Satyaban Sahoo*	1	0.002
5.	Shri Alok Singh*	1	0.002
6.	Shri Mohan Lal Kumawat*	1	0.002
7.	Shri Arvind Kumar*	1	0.002
	Total	50,000	100.000

\* Held as nominee of REC PDCL.



REC Power Development and Consultancy Limited  
Gurgaon



ERES-XXXIX Power Transmission Limited  
New Delhi  
110003



TATA Power Company Limited  
TATA  
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# 640 Annexure P-34

## Proof of Payment of SPV Acquisition Price made by TPCL

Description	Transaction Amount	UTR No.	Date
<u>0040058558-13 11</u> <u>2024-HD763HD763</u>	(185,622,381.00)	N318243395486476	13/11/2024

**TRANSMISSION SERVICE AGREEMENT**

**FOR**

**DEVELOPMENT AND OPERATION OF  
INTER-STATE TRANSMISSION SYSTEM**

**FOR TRANSMISSION OF ELECTRICITY  
THROUGH TARIFF BASED COMPETITIVE  
BIDDING**

**FOR**

**EASTERN REGION EXPANSION SCHEME-  
XXXIX (ERES-XXXIX)**

**BETWEEN THE**

**CENTRAL TRANSMISSION UTILITY OF  
INDIA LIMITED  
(NODAL AGENCY)**

**AND**

**ERES-XXXIX POWER TRANSMISSION  
LIMITED**

*14<sup>th</sup> November*, 2024

Central Transmission Utility of India Limited

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ERES-XXXIX Power Transmission Limited



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Central Transmission Utility of India Limited

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ERES-XXXIX Power Transmission Limited



Bond		<b>Indian-Non Judicial Stamp Haryana Government</b>		Date :01/07/2024
Certificate No. G0A2024G2654			Stamp Duty Paid : ₹ 101	
GRN No. 118416938			Penalty : ₹ 0	
<b>Deponent</b>				
Name: Central Transmission utility of India ltd				
H.No/Floor : 2	Sector/Ward : 29	Landmark : Na		
City/Village : Gurugram	District : Gurugram	State : Haryana		
Phone : 98*****10				
Purpose : ARTICLE 5 GENERAL AGREEMENT to be submitted at Concerned office				

**THIS TRANSMISISON SERVICE AGREEMENT** (hereinafter referred to as "TSA" or "Agreement" or "the Agreement" or "this Agreement") is made on the 14<sup>th</sup> [Insert day] of November [Insert month] of Two Thousand and Twenty-Four.

**BETWEEN:**

The **Central Transmission Utility of India Limited**, having its registered office at Plot No.2, Sector 29, Gurugram, Haryana-122001 & correspondence address at Floor No. 5-10, Tower 1, Plot No. 16, IRCON International Tower, Institutional Area, Sector 32, Gurugram, Haryana – 122001 acting as a Nodal Agency (referred to as the "Nodal Agency"), which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the one part;

**AND**

**ERES-XXXIX Power Transmission Limited**, incorporated under the Companies Act, 2013, having its registered office at Core-4, Scope Complex 7, Lodhi Road Delhi, South Delhi, Delhi 110003 (herein after referred to as "Transmission Service Provider" or "TSP" or "ISTS Licensee", which expression shall unless repugnant to the context or meaning thereof include its successors, and permitted assigns) as Party of the other part;

**("Nodal Agency" and "TSP" are individually referred to as "Party" and collectively as the "Parties"**

Central Transmission Utility of India Limited

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ERES-XXXIX Power Transmission Limited



**AND WHEREAS:**

- A) In accordance with the Bidding Guidelines, the Bid Process Coordinator (hereinafter referred to as BPC) had initiated a competitive e-reverse bidding process through issue of RFP for selecting a Successful Bidder to build, own, operate and transfer the Project comprising of the Elements mentioned in Schedule 1 (hereinafter referred to as the Project)
- B) Pursuant to the said e-reverse bidding process, the BPC has identified the Successful Bidder, who will be responsible to set up the Project on build, own, operate and transfer basis to provide Transmission Service in accordance with the terms of this Agreement and the Transmission License.
- C) The Selected Bidder have submitted the Contract Performance Guarantee and acquired one hundred percent (100%) of the equity shareholding of **ERES-XXXIX Power Transmission Limited**, along with all its related assets and liabilities in terms of the provisions of the Share Purchase Agreement.
- D) The TSP has agreed to make an application for a Transmission License to the Commission for setting up the Project on build, own, operate and transfer basis.
- E) The TSP has further agreed to make an application to the Commission for the adoption of the Transmission Charges under Section 63 of the Electricity Act, 2003, along with a certification from the Bid Evaluation Committee in accordance with the Bidding Guidelines issued by Ministry of Power, Government of India.
- F) The TSP has agreed to execute the agreement(s) required, if any, under Sharing Regulations within fifteen (15) days from the date of grant of Transmission License from the Commission.
- G) The TSP agrees to the terms and conditions laid down under Sharing Regulations, for making available the ISTS and charge the Transmission Charges in accordance with the terms and conditions of Sharing Regulations.
- H) The billing, collection and disbursement of the Transmission Charges by the CTU to the ISTS Licensee shall be governed as per Sharing Regulations.
- I) The terms and conditions stipulated in the Transmission License issued by the Commission to the TSP shall be applicable to this Agreement and the TSP agrees to comply with these terms and conditions. In case of inconsistency between the Transmission License terms & conditions and the conditions of this Agreement, the conditions stipulated in the Transmission License granted by the Commission shall prevail.

**NOW, THEREFORE, IN CONSIDERATION OF THE PREMISES AND MUTUAL AGREEMENTS, COVENANTS AND CONDITIONS SET FORTH HEREIN, IT IS HEREBY AGREED BY AND BETWEEN THE PARTIES HERETO AS FOLLOWS:**

Central Transmission Utility of India Limited

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ERES-XXXIX Power Transmission Limited



**ARTICLE: 1**

**1 DEFINITIONS AND INTERPRETATIONS**

**1.1 Definitions:**

1.1.1 The words / expressions used in this Agreement, unless as defined below or repugnant to the context, shall have the same meaning as assigned to them by the Electricity Act, 2003 and the rules or regulations framed there under including those issued / framed by the Commission (as defined hereunder), as amended or re-enacted from time to time or the General Clauses Act, failing which it shall bear its ordinary English meaning.

The words/expressions when used in this Agreement shall have the respective meanings as specified below:

“**Acquisition Price**” shall have the same meaning as defined in the Share Purchase Agreement;

“**Act**” or “**Electricity Act**” or “**Electricity Act 2003**” shall mean the Electricity Act, 2003 and any amendments made to the same or any succeeding enactment thereof;

“**Affiliate**” shall mean a company that either directly or indirectly

- i. controls or
- ii. is controlled by or
- iii. is under common control with

a Bidding Company (in the case of a single company) or a Member (in the case of a Consortium) and “**control**” means ownership by one entity of at least twenty-six percent (26%) of the voting rights of the other entity;

“**Availability**” in relation to the Project or in relation to any Element of the Project, for a given period shall mean the time in hours during that period the Project is capable to transmit electricity at its Rated Voltage and shall be expressed in percentage of total hours in the given period and shall be calculated as per the procedure contained in Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, attached herewith in Schedule 6;

“**Bid**” shall mean technical bid and financial bid submitted by the Bidder, in response to the RFP, in accordance with the terms and conditions of the RFP;

“**Bid Deadline**” shall mean the last date and time for submission of the Bid in response to RFP, as specified in the RFP;

Central Transmission Utility of India Limited

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ERES-XXXIX Power Transmission Limited



“**Bidding Company**” shall refer to such single company that has made a Response to RFP for the Project;

“**Bidding Consortium / Consortium**” shall refer to a group of companies that has collectively made a Response to RFP for the Project;

“**Bid Documents**” or “**Bidding Documents**” shall mean the RFP, along with all attachments thereto or clarifications thereof;

“**Bidding Guidelines**” shall mean the “Tariff Based Competitive Bidding Guidelines for Transmission Service” and “Guidelines for Encouraging Competition in Development of Transmission Projects” issued by Government of India, Ministry of Power under Section – 63 of the Electricity Act as amended from time to time;

“**Bid Process Coordinator**” or “**BPC**” shall mean a person or its authorized representative as notified by the Government of India, responsible for carrying out the process for selection of Bidder who will acquire Transmission Service Provider;

“**Bill**” shall mean any bill raised by the CTU on the DICs to recover the Transmission Charges pursuant to the Sharing Regulations;

“**Business Day**” shall mean a day other than Sunday or a statutory holiday, on which the banks remain open for business in the State in which the Nodal Agency’s registered office is located and the concerned TSP are located;

“**CEA**” shall mean the Central Electricity Authority constituted under Section -70 of the Electricity Act;

“**Change in law**” shall have the meaning ascribed thereto in Article 12;

“**Commercial Operation Date**” or “**COD**” shall mean the date as per Article 6.2;

“**Commission**” or “**CERC**” shall mean the Central Electricity Regulatory Commission referred to in sub-section (1) of Section 76 of the Electricity Act, 2003 or its successors and assigns;

“**Competent Court of Law**” shall mean the Supreme Court or any High Court, or any tribunal or any similar judicial or quasi-judicial body in India that has jurisdiction to adjudicate upon issues relating to the Project;

“**Connection Agreement**” shall mean the agreement between the CTU or STU or any other concerned parties and the TSP, setting out the terms relating to the connection of the Project to the Inter-connection Facilities and use of the Inter State Transmission System as per the provisions of the IEGC, as the case may be;



**“Consultation Period”** shall mean the period of sixty (60) days or such longer period as the Parties may agree, commencing from the date of issue of a TSP’s Preliminary Notice or a Nodal Agency’s Preliminary Termination Notice, as provided in Article 13 of this Agreement, for consultation between the Parties to mitigate the consequence of the relevant event having regard to all the circumstances;

**“Consents, Clearances and Permits”** shall mean all authorizations, licenses, approvals, registrations, permits, waivers, privileges, acknowledgements, agreements, or concessions required to be obtained from or provided by any concerned authority for the development, execution and operation of Project including without any limitation for the construction, ownership, operation and maintenance of the Transmission Lines and/or sub-stations;

**“Construction Period”** shall mean the period from (and including) the Effective Date of the Transmission Service Agreement up to (but not including) the COD of the Element of the Project in relation to an Element and up to (but not including) the COD of the Project in relation to the Project;

**“Contractors”** shall mean the engineering, procurement, construction, operation & maintenance contractors, surveyors, advisors, consultants, designers, suppliers to the TSP and each of their respective sub-contractors (and each of their respective successors and permitted assigns) in their respective capacities as such;

**“Contract Performance Guarantee”** shall mean the irrevocable unconditional bank guarantee, submitted and to be submitted by the TSP or by the Selected Bidder on behalf of the TSP to the Nodal Agency from a bank mentioned in Annexure 17 of the RFP, in the form attached here to as Schedule 8, in accordance with Article 3 of this Agreement and which shall include the additional bank guarantee furnished by the TSP under this Agreement;

**“Contract Year”**, for the purpose of payment of Transmission Charges, shall mean the period beginning on the COD, and ending on the immediately succeeding March 31 and thereafter each period of 12 months beginning on April 1 and ending on March 31 provided that the last Contract Year shall end on the last day of the term of the TSA;

**“CTU” or “Central Transmission Utility”** shall have same meaning as defined in the Electricity Act, 2003;

**“Day”** shall mean a day starting at 0000 hours and ending at 2400 hours;

**“D/C”** shall mean Double Circuit;



“**Designated ISTS Customers**” or “**DICs**” shall have the meaning as ascribed in the Sharing Regulations;

“**Dispute**” shall mean any dispute or difference of any kind between the Parties, in connection with or arising out of this Agreement including any issue on the interpretation and scope of the terms of this Agreement as provided in Article 16;

“**Effective Date**” for the purposes of this Agreement, shall have the same meaning as per Article 2.1 of this Agreement;

“**Electrical Inspector**” shall mean a person appointed as such by the Government under sub-section (1) of Section 162 of the Electricity Act 2003 and also includes Chief Electrical Inspector;

“**Electricity Rules 2005**” shall mean the rules framed pursuant to the Electricity Act 2003 and as amended from time to time;

“**Element**” shall mean each Transmission Line or each circuit of the Transmission Lines (where there are more than one circuit) or each bay of Sub-station or switching station or HVDC terminal or inverter station of the Project, including ICTs, Reactors, SVC, FSC, etc. forming part of the ISTS, which will be owned, operated and maintained by the concerned ISTS Licensee, and which has a separate Scheduled COD as per Schedule 2 of this Agreement and has a separate percentage for recovery of Transmission Charges on achieving COD as per Schedule 5 of this Agreement;

“**Event of Default**” shall mean the events as defined in Article 13 of this Agreement;

“**Expiry Date**” shall be the date which is thirty-five (35) years from the COD of the Project;

“**Financial Closure**” shall mean the first Business Day on which funds are made available to the TSP pursuant to the Financing Agreements;

“**Financially Evaluated Entity**” shall mean the company which has been evaluated for the satisfaction of the financial requirement set forth in the RFP;

“**Financing Agreements**” shall mean the agreements pursuant to which the TSP is to finance the Project including the loan agreements, security documents, notes, indentures, security agreements, letters of credit and other documents, as may be amended, modified, or replaced from time to time, but without in anyway increasing the liabilities of the Designated ISTS Customers / Nodal Agency;



“**Financial Year**” shall mean a period of twelve months at midnight Indian Standard Time (IST) between 1st April & 31st March;

“**Force Majeure**” and “**Force Majeure Event**” shall have the meaning assigned thereto in Article 11;

“**GOI**” shall mean Government of India;

“**Grid Code**” / “**IEGC**” shall mean the Grid Code specified by the Central Commission under Clause (h) of sub-section (1) of Section 79 of the Electricity Act;

“**Independent Engineer**” shall mean an agency/ company, appointed by Nodal Agency in accordance with the Guidelines for Encouraging Competition in Development of Transmission Projects.

“**Indian Governmental Instrumentality**” shall mean Government of India, Government of any State in India or any ministry, department, board, authority, agency, corporation, commission under the direct or indirect control of Government of India or any State Government or both, any political sub-division of any of them including any court or Commission or tribunal or judicial or quasi-judicial body in India but excluding the CTU, TSP and the Designated ISTS Customers;

“**Insurances**” shall mean the insurance cover to be obtained and maintained by the TSP in accordance with Article 9 of this Agreement;

“**Interconnection Facilities**” shall mean the facilities as may be set up for transmission of electricity through the use of the Project, on either one or both side of generating station’s / CTU’s / STU’s / ISTS Licensee’s / Designated ISTS Customer’s substations (as the case may be) which shall include, without limitation, all other transmission lines, gantries, sub-stations and associated equipments not forming part of the Project;

“**ISTS Licensee**” shall be the TSP under this Agreement, consequent to having been awarded a Transmission License by the CERC and shall be referred to as the TSP or the ISTS Licensee, as the context may require in this Agreement;

“**Law**” or “**Laws**” in relation to this Agreement, shall mean all laws including electricity laws in force in India and any statute, ordinance, rule, regulation, notification, order or code, or any interpretation of any of them by an Indian Governmental Instrumentality having force of law and shall include all rules, regulations, decisions and orders of the Commission;

Central Transmission Utility of India Limited



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ERTS-XXXX Power Transmission Limited



**“Lead Member of the Bidding Consortium” or “Lead Member”** shall mean a company who commits at least 26% equity stake in the Project, meets the technical requirement as specified in the RFP and so designated by other Member(s) in Bidding Consortium;

**“Lenders”** means the banks, financial institutions, multilateral funding agencies, non-banking financial companies registered with the Reserve Bank of India (RBI), insurance companies registered with the Insurance Regulatory & Development Authority (IRDA), pension funds regulated by the Pension Fund Regulatory & Development Authority (PFRDA), mutual funds registered with Securities & Exchange Board of India (SEBI), etc., including their successors and assigns, who have agreed on or before COD of the Project to provide the TSP with the debt financing described in the capital structure schedule, and any successor banks or financial institutions to whom their interests under the Financing Agreements may be transferred or assigned;

Provided that, such assignment or transfer shall not relieve the TSP of its obligations to the Nodal Agency under this Agreement in any manner and shall also does not lead to an increase in the liability of the Nodal Agency;

**“Lenders Representative”** shall mean the person notified by the Lender(s) in writing as being the representative of the Lender(s) or the Security Trustee and such person may from time to time be replaced by the Lender(s) pursuant to the Financing Agreements by written notice to the TSP;

**“Letter of Intent” or “LOI”** shall have the same meaning as in the RFP;

**“Member in a Bidding Consortium / Member”** shall mean each company in the Bidding Consortium;

**“Month”** shall mean a period of thirty (30) days from (and excluding) the date of the event;

**“Monthly Transmission Charges”** for any Element of the Project, after COD of the Element till COD of the Project, and for the Project after COD of the Project, shall mean the amount of Transmission Charges as specified in Schedule 5 of this Agreement multiplied by no. of days in the relevant month and divided by no. of days in the year;

**“National Load Despatch Centre”** shall mean the centre established as per sub-section (1) of Section 26 of the Electricity Act 2003;

**“Nodal Agency”** shall mean CTU, which shall execute and implement the Transmission Service Agreement (TSA);



Provided that while taking major decisions, CTU shall consult CEA on technical matters and any other matter it feels necessary.

“**Notification**” shall mean any notification, issued in the Gazette of India;

“**Operating Period**” for any Element of the Project shall mean the period from (and including) the COD of such Element of the Project, up to (and including) the Expiry Date and for the Project, shall mean the period from (and including) the COD of the Project, up to (and including) the Expiry Date;

“**Parent Company**” shall mean an entity that holds at least twenty-six percent (26%) of the paid - up equity capital directly or indirectly in the Bidding Company or in the Member in a Bidding Consortium, as the case may be;

“**Preliminary Termination Notice**” shall mean a Nodal Agency’s Preliminary Termination Notice as defined in Article 13 of this Agreement;

“**Project**” shall mean **Eastern Region Expansion Scheme-XXXIX (ERES – XXXIX)**”, as detailed in Schedule 1 of this Agreement;

“**Project Assets**” shall mean all physical and other assets relating to and forming part of the Project including:

- (a) rights over the Site for substations, ROW for transmission lines;
- (b) tangible & intangible assets such as civil works and equipment including foundations, embankments, pavements, electrical systems, communication systems, relief centres, administrative offices, Sub-stations, software, tower and sub-stations designs etc;
- (c) project facilities situated on the Site;
- (d) all rights of the TSP under the project agreements;
- (e) financial assets, such as receivables, security deposits etc;
- (f) insurance proceeds; and
- (g) Applicable Permits and authorisations relating to or in respect of the Transmission System;”

“**Project Execution Plan**” shall mean the plan referred to in Article 3.1.3(c) hereof;

“**Prudent Utility Practices**” shall mean the practices, methods and standards that are generally accepted internationally from time to time by electric transmission



utilities for the purpose of ensuring the safe, efficient and economic design, construction, commissioning, operation, repair and maintenance of the Project and which practices, methods and standards shall be adjusted as necessary, to take account of:

- (i) operation, repair and maintenance guidelines given by the manufacturers to be incorporated in the Project,
- (ii) the requirements of Law, and
- (iii) the physical conditions at the Site;
- (iv) the safety of operating personnel and human beings;

**“Rated Voltage”** shall mean voltage at which the Transmission System is designed to operate or such lower voltage at which the line is charged, for the time being, in consultation with the Central Transmission Utility;

**“Rebate”** shall have the meaning as ascribed to in Article 10.3 of this Agreement;

**“RFP”** shall mean Request for Proposal dated 16.03.2024 along with all schedules, annexures and RFP Project Documents attached thereto, issued by the BPC for tariff based competitive bidding process for selection of Bidder as TSP to execute the Project, including any modifications, amendments or alterations thereto;

**“RFP Project Documents”** shall mean the following documents to be entered into in respect of the Project, by the Parties to the respective agreements:

- a. Transmission Service Agreement,
- b. Share Purchase Agreement,
- c. Agreement(s) required under Sharing Regulations and
- d. Any other agreement as may be required;

**“RLDC”** shall mean the relevant Regional Load Dispatch Centre as defined in the Electricity Act, 2003, in the region(s) in which the Project is located;

**“RPC”** shall mean the relevant Regional Power Committee established by the Government of India for the specific Region(s) in accordance with the Electricity Act, 2003 for facilitating integrated operation of the Power System in that Region;

**“Scheduled COD”** in relation to an Element(s) shall mean the date(s) as mentioned in Schedule 2 as against such Element(s) and in relation to the Project, shall mean



the date as mentioned in Schedule 2 as against such Project, subject to the provisions of Article 4.4 of this Agreement, or such date as may be mutually agreed among the Parties;

“**Scheduled Outage**” shall mean the final outage plan as approved by the RPC as per the provisions of the Grid Code;

“**Selected Bid**” shall mean the technical Bid and the Final Offer of the Selected Bidder submitted during e-reverse bidding, which shall be downloaded and attached in Schedule 7 on or prior to the Effective Date;

“**Share Purchase Agreement**” shall mean the agreement amongst REC Power Development and Consultancy Limited, ERES-XXXIX Power Transmission Limited and the Successful Bidder for the purchase of one hundred (100%) per cent of the shareholding of the ERES-XXXIX Power Transmission Limited for the Acquisition Price, by the Successful Bidder on the terms and conditions as contained therein;

“**Sharing Regulations**” shall mean the Central Electricity Regulatory Commission (Sharing of Inter-State Transmission Charges and Losses) Regulations, 2020 and as amended from time to time;

“**Site**” in relation to a substation, switching station or HVDC terminal or inverter station, shall mean the land and other places upon which such station / terminal is to be established;

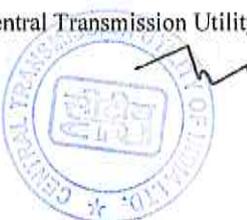
“**SLDC**” shall mean the State Load Despatch Centre established as per sub-section (1) of Section 31 of the Electricity Act 2003;

“**STU**” or “**State Transmission Utility**” shall be the Board or the Government company, specified as such by the State Government under sub-section (1) of Section 39 of the Electricity Act 2003;

“**Successful Bidder**” or “**Selected Bidder**” shall mean the Bidder selected pursuant to the RFP and who has to acquire one hundred percent (100%) equity shares of ERES-XXXIX Power Transmission Limited along with all its related assets and liabilities, which will be responsible as the TSP to establish the Project on build, own, operate and transfer basis as per the terms of the TSA and other RFP Project Documents;

“**TSP’s Preliminary Notice**” shall mean a notice issued by the TSP in pursuant to the provisions of Article 13.3 of this Agreement;

“**Target Availability**” shall have the meaning as ascribed hereto in Article 8.2 of this Agreement;



“**Technically Evaluated Entity**” shall mean the company which has been evaluated for the satisfaction of the technical requirement set forth in RFP;

“**Termination Notice**” shall mean a Nodal Agency’s Termination Notice given by the Nodal Agency to the TSP pursuant to the provisions of Articles 3.3.2, 3.3.4, 4.4.2, 5.8, 13.2 and 13.3 of this Agreement for the termination of this Agreement;

“**Term of Agreement**” for the purposes of this Agreement shall have the meaning ascribed thereto in Article 2.2 of this Agreement;

“**Transmission Charges**” shall mean the Final Offer of the Selected Bidder during the e-reverse bidding and adopted by the Commission, payable to the TSP as per Sharing Regulations;

“**Transmission License**” shall mean the license granted by the Commission in terms of the relevant regulations for grant of such license issued under the Electricity Act;

“**Transmission Service**” shall mean making the Project available as per the terms and conditions of this Agreement and Sharing Regulations;

“**Unscheduled Outage**” shall mean an interruption resulting in reduction of the Availability of the Element(s) / Project (as the case may be) that is not a result of a Scheduled Outage or a Force Majeure Event.

“**Ultimate Parent Company**” shall mean an entity which owns at least twenty six percent (26%) equity in the Bidding Company or Member of a Consortium, (as the case may be) and in the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) and such Bidding Company or Member of a Consortium, (as the case may be) and the Technically Evaluated Entity and / or Financially Evaluated Entity (as the case may be) shall be under the direct control or indirectly under the common control of such entity;

## 1.2 Interpretation:

*Save where the contrary is indicated, any reference in this Agreement to:*

“**Agreement**” shall be construed as including a reference to its Schedules, Appendices and Annexures;

“**Rupee**”, “**Rupees**” and “**Rs.**” shall denote lawful currency of India;

“**crore**” shall mean a reference to ten million (10,000,000) and a “**lakh**” shall mean a reference to one tenth of a million (1,00,000);

“**encumbrance**” shall be construed as a reference to a mortgage, charge, pledge, lien or other encumbrance securing any obligation of any person or any other type



of preferential arrangement (including, without limitation, title transfer and retention arrangements) having a similar effect;

**"holding company"** of a company or corporation shall be construed as a reference to any company or corporation of which the other company or corporation is a subsidiary;

**"indebtedness"** shall be construed so as to include any obligation (whether incurred as principal or surety) for the payment or repayment of money, whether present or future, actual or contingent;

**"person"** shall have the meaning as defined in Section 2 (49) of the Act;

**"subsidiary"** of a company or corporation (the holding company) shall be construed as a reference to any company or corporation:

- (i) which is controlled, directly or indirectly, by the holding company, or
- (ii) more than half of the issued share capital of which is beneficially owned, directly or indirectly, by the holding company, or
- (iii) which is a subsidiary of another subsidiary of the holding company,

for these purposes, a company or corporation shall be treated as being controlled by another if that other company or corporation is able to direct its affairs and/or to control the composition of its board of directors or equivalent body;

**"winding-up", "dissolution", "insolvency", or "reorganization"** in the context of a company or corporation shall have the same meaning as defined in the Companies Act, 1956/ Companies Act, 2013 (as the case may be).

- 1.2.1 Words importing the singular shall include the plural and vice versa.
- 1.2.2 This Agreement itself or any other agreement or document shall be construed as a reference to this or to such other agreement or document as it may have been, or may from time to time be, amended, varied, novated, replaced or supplemented.
- 1.2.3 A Law shall be construed as a reference to such Law including its amendments or re-enactments from time to time.
- 1.2.4 A time of day shall, save as otherwise provided in any agreement or document be construed as a reference to Indian Standard Time.



- 1.2.5 Different parts of this Agreement are to be taken as mutually explanatory and supplementary to each other and if there is any inconsistency between or among the parts of this Agreement, they shall be interpreted in a harmonious manner so as to give effect to each part.
- 1.2.6 The tables of contents and any headings or sub-headings in this Agreement have been inserted for ease of reference only and shall not affect the interpretation of this Agreement.
- 1.2.7 All interest payable under this Agreement shall accrue from day to day and be calculated on the basis of a year of three hundred and sixty five (365) days.
- 1.2.8 The words “hereof” or “herein”, if and when used in this Agreement shall mean a reference to this Agreement.
- 1.2.9 The contents of Schedule 7 shall be referred to for ascertaining accuracy and correctness of the representations made by the Selected Bidder in Article 17.2.1 hereof.

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**ARTICLE: 2**

**2 EFFECTIVENESS AND TERM OF AGREEMENT**

**2.1 Effective Date:**

This Agreement shall be effective from later of the dates of the following events:

- a. The Selected Bidder, on behalf of the TSP, has provided the Contract Performance Guarantee, as per terms of Article 3.1 of this Agreement; and
- b. The Selected Bidder has acquired for the Acquisition Price, one hundred percent (100%) of the equity shareholding of REC Power Development and Consultancy Limited in ERES-XXXIX Power Transmission Limited along with all its related assets and liabilities as per the provisions of the Share Purchase Agreement. and
- c. The Agreement is executed and delivered by the Parties;

**2.2 Term and Termination:**

2.2.1 Subject to Article 2.2.3 and Article 2.4, this Agreement shall continue to be effective in relation to the Project until the Expiry Date, when it shall automatically terminate.

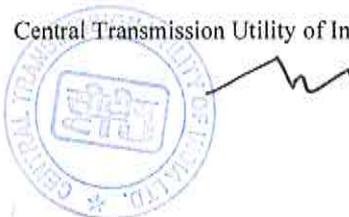
2.2.2 Post the Expiry Date of this Agreement, the TSP shall ensure transfer of Project Assets to CTU or its successors or an agency as decided by the Central Government at zero cost and free from any encumbrance and liability. The transfer shall be completed within 90 days of expiry of this Agreement failing which CTU shall be entitled to take over the Project Assets Suo moto.

2.2.3 This Agreement shall terminate before the Expiry Date in accordance with Article 13 or Article 3.3.2 or Article 3.3.4.

**2.3 Conditions prior to the expiry of the Transmission License**

2.3.1 In order to continue the Project beyond the expiry of the Transmission License, the TSP shall be obligated to make an application to the Commission at least two (2) years before the date of expiry of the Transmission License, seeking the Commission's approval for the extension of the term of the Transmission License up to the Expiry Date.

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2.3.2 The TSP shall timely comply with all the requirements that may be laid down by the Commission for extension of the term of the Transmission License beyond the initial term of twenty-five (25) years & upto the Expiry Date and the TSP shall keep the Nodal Agency fully informed about the progress on its application for extension of the term of the Transmission License.

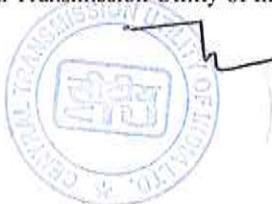
**2.4 Survival:**

The expiry or termination of this Agreement shall not affect any accrued rights, obligations/ roles and liabilities of the Parties under this Agreement, including the right to receive liquidated damages as per the terms of this Agreement, nor shall it effect the survival of any continuing obligations/ roles for which this Agreement provides, either expressly or by necessary implication, which are to survive after the Expiry Date or termination including those under Articles 3.3.3, 3.3.5, Article 9.3 (Application of Insurance Proceeds), Article 11 (Force Majeure), Article 13 (Events of Default and Termination), Article 14 (Liability & Indemnification), Article 16 (Governing Law & Dispute Resolution), Article 19 (Miscellaneous).

**2.5 Applicability of the provisions of this Agreement**

2.5.1 For the purpose of Availability, Target Availability and the computation of Availability, Incentive, Penalty, the provisions provided in this Agreement shall apply and any future modifications in the relevant Rules and Regulations shall not be applicable for this Project.

2.5.2 For the purposes of this Agreement for ISTS systems developed under the tariff based competitive bidding framework, the provisions relating to the definitions (Availability and COD), Article 3 (Contract Performance Guarantee and Conditions Subsequent), Article 5 (Construction of the Project), Article 6 (Connection and Commissioning of the Project), Article 8 (Target Availability and calculation of Availability), Article 11 (Force Majeure), Article 12 (Change in Law), Article 13 (Event of Default), Article 14 (Indemnification), Article 15 (Assignment and Charges), Articles 16.1, 16.2 and 16.4 (Governing Laws and Dispute Resolution) and Article 17 (representation and warranties of the ISTS Licensee) of this agreement shall supersede the corresponding provisions under Sharing Regulations.



**ARTICLE: 3**

**3 CONDITIONS SUBSEQUENT**

**3.1 Satisfaction of conditions subsequent by the TSP**

3.1.1 Within ten (10) days from the date of issue of Letter of Intent, the Selected Bidder, shall:

- a. Provide the Contract Performance Guarantee, and
- b. Acquire, for the Acquisition Price, one hundred percent (100%) equity shareholding of ERES-XXXIX Power Transmission Limited from REC Power Development and Consultancy Limited, who shall sell to the Selected Bidder, the equity shareholding of ERES-XXXIX Power Transmission Limited, along with all its related assets and liabilities.
- c. Execute this Agreement;

The TSP shall, within five (5) working days from the date of acquisition of SPV by the Selected Bidder, undertake to apply to the Commission for the grant of Transmission License and for the adoption of tariff as required under section-63 of the Electricity Act.

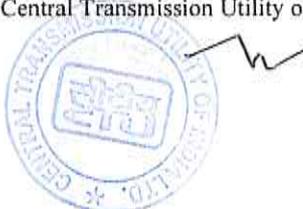
The Selected Bidder, on behalf of the TSP, will provide to the Central Transmission Utility of India Limited (being the Nodal Agency) the Contract Performance Guarantee for an amount of Rs. 58 Crore (Rupees Fifty-Eight Crore only).

3.1.2 The Contract Performance Guarantee shall be initially valid for a period up to three (3) months after the Scheduled COD of the Project and shall be extended from time to time to be valid for a period up to three (3) months after the COD of the Project. In case the validity of the Contract Performance Guarantee is expiring before the validity specified in this Article, the TSP shall, at least thirty (30) days before the expiry of the Contract Performance Guarantee, replace the Contract Performance Guarantee with another Contract Performance Guarantee or extend the validity of the existing Contract Performance Guarantee until the validity period specified in this Article.

3.1.3 The TSP agrees and undertakes to duly perform and complete the following activities within six (6) months from the Effective Date (except for c) below), unless such completion is affected due to any Force Majeure Event, or if any of the activities is specifically waived in writing by the Nodal Agency:

- a. To obtain the Transmission License for the Project from the Commission;

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- b. To obtain the order for adoption of Transmission Charges by the Commission, as required under Section 63 of the Electricity Act 2003;
- c. To submit to the Nodal Agency, CEA & Independent Engineer, the Project Execution Plan, immediately after award of contract(s) and maximum within one hundred and twenty (120) days from the Effective Date. Also, an approved copy each of Manufacturing Quality Plan (MQP) and Field Quality Plan (FQP) would be submitted to Independent Engineer & Nodal Agency in the same time period. The TSP's Project Execution Plan should be in conformity with the Scheduled COD as specified in Schedule 2 of this Agreement, and shall bring out clearly the organization structure, time plan and methodology for executing the Project, award of major contracts, designing, engineering, procurement, shipping, construction, testing and commissioning to commercial operation;
- d. To submit to the Nodal Agency, CEA & Independent Engineer a detailed bar (GANTT) chart of the Project outlining each activity (taking longer than one Month), linkages as well as durations;
- e. To submit to the Nodal Agency, CEA & Independent Engineer detailed specifications of conductor meeting the functional specifications specified in RFP;
- f. To achieve Financial Closure;
- g. To provide an irrevocable letter to the Lenders duly accepting and acknowledging the rights provided to the Lenders under the provisions of Article 15.3 of this Agreement and all other RFP Project Documents;
- h. To award the Engineering, Procurement and Construction contract ("EPC contract") for the design and construction of the Project and shall have given to such Contractor an irrevocable notice to proceed; and
- i. To sign the Agreement(s) required, if any, under Sharing Regulations.

### **3.2 Recognition of Lenders' Rights by the Nodal Agency**

- 3.2.1 The Nodal Agency hereby accepts and acknowledges the rights provided to the Lenders as per Article 15.3 of this Agreement and all other RFP Project Documents.

### **3.3 Consequences of non-fulfilment of conditions subsequent**

- 3.3.1 If any of the conditions specified in Article 3.1.3 is not duly fulfilled by the TSP even within three (3) Months after the time specified therein, then on and from the expiry of such period and until the TSP has satisfied all the conditions



specified in Article 3.1.3, the TSP shall, on a monthly basis, be liable to furnish to Central Transmission Utility of India Limited (being the Nodal Agency) additional Contract Performance Guarantee of Rupees Five Crore Eighty Lakh Only (Rs. 5.80 Crore) within two (2) Business Days of expiry of every such Month. Such additional Contract Performance Guarantee shall be provided to Central Transmission Utility of India Limited (being the Nodal Agency) in the manner provided in Article 3.1.1 and shall become part of the Contract Performance Guarantee and all the provisions of this Agreement shall be construed accordingly. Central Transmission Utility of India Limited (being the Nodal Agency) shall be entitled to hold and / or invoke the Contract Performance Guarantee, including such additional Contract Performance Guarantee, in accordance with the provisions of this Agreement.

3.3.2 Subject to Article 3.3.4, if:

(i) the fulfilment of any of the conditions specified in Article 3.1.3 is delayed beyond nine (9) Months from the Effective Date and the TSP fails to furnish additional Contract Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof; or

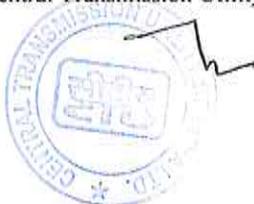
(ii) the TSP furnishes additional Performance Guarantee to the Nodal Agency in accordance with Article 3.3.1 hereof but fails to fulfil the conditions specified in Article 3.1.3 within a period of twelve (12) months from the Effective Date,

the Nodal Agency shall have the right to terminate this Agreement, by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

3.3.3 If the Nodal Agency elects to terminate this Agreement as per the provisions of Article 3.3.2, the TSP shall be liable to pay to the Nodal Agency an amount of Rs. 58 Crore (Rupees Fifty Eight Crore Only) as liquidated damages. The Nodal Agency shall be entitled to recover this amount of damages by invoking the Contract Performance Guarantee to the extent of liquidated damages, which shall be required by the Nodal Agency, and the balance shall be returned to TSP, if any.

It is clarified for removal of doubt that this Article shall survive the termination of this Agreement.

3.3.4 In case of inability of the TSP to fulfil the conditions specified in Article 3.1.3 due to any Force Majeure Event, the time period for fulfilment of the condition subsequent as mentioned in Article 3.1.3, may be extended for a period of such Force Majeure Event. Alternatively, if deemed necessary, this Agreement may be



terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement and the Contract Performance Guarantee shall be returned as per the provisions of Article 6.5.1.

Provided, that due to the provisions of this Article 3.3.4, any increase in the time period for completion of conditions subsequent mentioned under Article 3.1.3, shall lead to an equal increase in the time period for the Scheduled COD. If the Scheduled COD is extended beyond a period of one hundred eighty (180) days due to the provisions of this Article 3.3.4, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.

3.3.5 Upon termination of this Agreement as per Articles 3.3.2 and 3.3.4, the Nodal Agency may take steps to bid out the Project again.

3.3.6 The Nodal agency, on the failure of the TSP to fulfil its obligations, if it considers that there are sufficient grounds for so doing, apart from invoking the Contract Performance Guarantee under para 3.3.3 may also initiate proceedings for blacklisting the TSP as per provisions of Article 13.2 of TSA.

#### 3.4 Progress Reports

The TSP shall notify the Nodal Agency and CEA in writing at least once a Month on the progress made in satisfying the conditions subsequent in Articles 3.1.3.



**ARTICLE: 4****4 DEVELOPMENT OF THE PROJECT****4.1 TSP's obligations in development of the Project:**

Subject to the terms and conditions of this Agreement, the TSP at its own cost and expense shall observe, comply with, perform, undertake and be responsible:

- a. for procuring and maintaining in full force and effect all Consents, Clearances and Permits, required in accordance with Law for development of the Project;
- b. for financing, constructing, owning and commissioning each of the Element of the Project for the scope of work set out in Schedule 1 of this Agreement in accordance with:

- i. the Electricity Act and the Rules made thereof;
- ii. the Grid Code;
- iii. the CEA Regulations applicable, and as amended from time to time, for Transmission Lines and sub-stations:

- the Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007;
- Central Electricity Authority (Technical Standards for construction of Electrical Plants and Electric Lines) Regulation, 2010;
- Central Electricity Authority (Grid Standard) Regulations, 2010;
- Central Electricity Authority (Safety requirements for construction, operation and maintenance of Electrical Plants and Electrical Lines) Regulation, 2011;
- Central Electricity Authority (Measures relating to Safety and Electricity Supply) Regulation, 2010;
- Central Electricity Authority (Technical Standards for Communication System in Power System Operation) Regulations, 2020.

- iv. Safety/ security Guidelines laid down by the Government;
- v. Prudent Utility Practices, relevant Indian Standards and the Law;

not later than the Scheduled COD as per Schedule 2 of this Agreement;



- c. for entering into a Connection Agreement with the concerned parties in accordance with the Grid Code.
- d. for owning the Project throughout the term of this Agreement free and clear of any encumbrances except those expressly permitted under Article 15 of this Agreement;
- e. to co-ordinate and liaise with concerned agencies and provide on a timely basis relevant information with regard to the specifications of the Project that may be required for interconnecting the Project with the Interconnection Facilities;
- f. for providing all assistance to the Arbitrators as they may require for the performance of their duties and responsibilities;
- g. to provide to the Nodal Agency and CEA, on a monthly basis, progress reports with regard to the Project and its execution (in accordance with prescribed form) to enable the CEA to monitor and co-ordinate the development of the Project matching with the Interconnection Facilities;
- h. to comply with Ministry of Power order no. 25-11/6/2018 – PG dated 02.07.2020 as well as other Guidelines issued by Govt. of India pertaining to this;
- i. to procure the products associated with the Transmission System as per provisions of Public Procurement (Preference to Make in India) orders issued by Ministry of Power vide orders No. 11/5/2018 - Coord. dated 28.07.2020 for transmission sector, as amended from time to time read with Department for Promotion of Industry and Internal Trade (DPIIT) orders in this regard (Procuring Entity as defined in above orders shall deemed to have included Selected Bidder and/ or TSP).

Also, to comply with Department of Expenditure, Ministry of Finance vide Order (Public Procurement No 1) bearing File No. 6/18/2019-PPD dated 23.07.2020, Order (Public Procurement No 2) bearing File No. 6/18/2019-PPD dated 23.07.2020 and Order (Public Procurement No. 3) bearing File No. 6/18/2019-PPD, dated 24.07.2020, as amended from time to time, regarding public procurement from a bidder of a country, which shares land border with India;

- j. to submit to Nodal Agency information in the prescribed format [To be devised by Nodal Agency] for ensuring compliance to Article 4.1 i) above.
- k. to comply with all its obligations undertaken in this Agreement.



**4.2 Roles of the Nodal Agency in implementation of the Project:**

4.2.1 Subject to the terms and conditions of this Agreement, the Nodal Agency shall be the holder and administrator of this Agreement and shall inter alia:

- a. appoint an Independent Engineer within 90 days of the Effective Date
- b. provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project;
- c. coordinate among TSP and upstream/downstream entities in respect of Interconnection Facilities; and
- d. monitor the implementation of the Agreement and take appropriate action for breach thereof including revocation of guarantees, cancellation of Agreement, blacklisting etc
- e. provide all assistance to the Arbitrators as required for the performance of their duties and responsibilities; and
- f. perform any other responsibility (ies) as specified in this Agreement.

**4.3 Time for Commencement and Completion:**

- a. The TSP shall take all necessary steps to commence work on the Project from the Effective Date of the Agreement and shall achieve Scheduled COD of the Project in accordance with the time schedule specified in Schedule 2 of this Agreement;
- b. The COD of each Element of the Project shall occur no later than the Scheduled COD or within such extended time to which the TSP shall be entitled under Article 4.4 hereto.

**4.4 Extension of time:**

4.4.1 In the event that the TSP is unable to perform its obligations for the reasons solely attributable to the Nodal Agency, the Scheduled COD shall be extended, by a 'day to day' basis, subject to the provisions of Article 13.

4.4.2 In the event that an Element or the Project cannot be commissioned by its Scheduled COD on account of any Force Majeure Event as per Article 11, the Scheduled COD shall be extended, by a 'day to day' basis for a period of such Force Majeure Event. Alternatively, if deemed necessary, the Nodal Agency may terminate the Agreement as per the provisions of Article 13.4 by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.



4.4.3 If the Parties have not agreed, within thirty (30) days after the affected Party's performance has ceased to be affected by the relevant circumstance, on how long the Scheduled COD should be deferred by, any Party may raise the Dispute to be resolved in accordance with Article 16.

**4.5 Metering Arrangements:**

4.5.1 The TSP shall comply with all the provisions of the IEGC and the Central Electricity Authority (Installation and Operation of Meters) Regulations, 2006 as amended from time to time, with regard to the metering arrangements for the Project. The TSP shall fully cooperate with the CTU / STU / RLDC and extend all necessary assistance in taking meter readings.

**4.6 Interconnection Facilities:**

4.6.1 Subject to the terms and conditions of this Agreement, the TSP shall be responsible for connecting the Project with the interconnection point(s) specified in Schedule 1 of this Agreement. The Interconnection Facilities shall be developed as per the scope of work and responsibilities assigned in Schedule 1 of this Agreement. The Nodal Agency shall be responsible for coordinating to make available the Interconnection Facilities.

4.6.2 In order to remove any doubts, it is made clear that the obligation of the TSP within the scope of the project is to construct the Project as per Schedule-1 of this Agreement and in particular to connect it to the Interconnection Facilities as specified in this Agreement.



**ARTICLE: 5**

**5 CONSTRUCTION OF THE PROJECT**

**5.1 TSP's Construction Responsibilities:**

5.1.1 The TSP, at its own cost and expense, shall be responsible for designing, constructing, erecting, testing and commissioning each Element of the Project by the Scheduled COD in accordance with the Regulations and other applicable Laws specified in Article 4.1 of this Agreement.

5.1.2 The TSP acknowledges and agrees that it shall not be relieved from any of its obligations under this Agreement or be entitled to any extension of time or any compensation whatsoever by reason of the unsuitability of the Site or Transmission Line route(s).

5.1.3 The TSP shall be responsible for obtaining all Consents, Clearances and Permits related but not limited to road / rail / river / canal / power line / crossings, Power and Telecom Coordination Committee (PTCC), defence, civil aviation, right of way / way-leaves and environmental & forest clearances from relevant authorities required for developing, financing, constructing, maintaining/ renewing all such Consents, Clearances and Permits in order to carry out its obligations under this Agreement in general and shall furnish to the Nodal Agency such copy/ies of each Consents, Clearances and Permits, on demand. Nodal Agency shall provide letters of recommendation to the concerned Indian Governmental Instrumentality, as may be requested by the TSP from time to time, for obtaining the Consents, Clearances and Permits required for the Project.

5.1.4 The TSP shall be responsible for:

- (a) **[To be deleted by the BPC in case no land acquisition is involved in the Project and replaced by "deleted"]** acquisition of land for location specific substations, switching stations or HVDC terminal or inverter stations. Also, the actual location of Greenfield substations (Switching Stations or HVDC Terminal or Inverter Stations) for a generation pooling substation and for load serving substations in the scope of TSP shall not be beyond 3 Km radius of the location proposed by the BPC in the survey report. However, actual location of any Greenfield Intermediate Substations in the scope of TSP shall not be beyond 10 Km radius of the location proposed by the BPC in the Survey Report;

- (b) [To be deleted by the BPC in case no land acquisition is involved in the Project and replaced by “deleted”] final selection of Site including its geo-technical investigation;
- (c) survey and geo-technical investigation of line route in order to determine the final route of the Transmission Lines;
- (d) seeking access to the Site and other places where the Project is being executed, at its own risk and costs, including payment of any crop, tree compensation or any other compensation as may be required.

5.1.5 In case the Project involves any resettlement and rehabilitation, the resettlement and rehabilitation package will be implemented by the State Government authorities, for which the costs is to be borne by the TSP and no changes would be allowed in the Transmission Charges on account of any variation in the resettlement and rehabilitation cost. The TSP shall provide assistance on best endeavour basis, in implementation of the resettlement and rehabilitation package, if execution of such package is in the interest of expeditious implementation of the Project and is beneficial to the Project affected persons.

**5.2 Appointing Contractors:**

- 5.2.1 The TSP shall conform to the requirements as provided in this Agreement while appointing Contractor(s) for procurement of goods & services.
- 5.2.2 The appointment of such Contractor(s) shall neither relieve the TSP of any of its obligations under this Agreement nor make the Nodal Agency liable for the performance of such Contractor(s).

**5.3 Monthly Progress Reporting:**

The TSP shall provide to the CEA, Nodal Agency & Independent Engineer, on a monthly basis, progress reports along with likely completion date of each Element with regard to the Project and its execution (in accordance with prescribed form). The Nodal Agency/ CEA shall monitor the development of the Project for its timely completion for improving and augmenting the electricity system as a part of its statutory responsibility.

**5.4 Quality of Workmanship:**

The TSP shall ensure that the Project is designed, built and completed in a good workmanship using sound engineering and construction practices, and using only materials and equipment that are new and manufactured as per the MQP and following approved FQP for erection, testing & commissioning and complying



with Indian /International Standards such that, the useful life of the Project will be at least thirty-five (35) years from the COD of the Project.

The TSP shall ensure that all major substation equipment / component (e.g. transformers, reactors, Circuit Breakers, Instrument Transformers (IT), Surge Arresters (SA), Protection relays, clamps & connectors etc.), equipment in terminal stations of HVDC installations including Thyristor/ IGBT valves, Converter Transformers, smoothing reactors, Transformer bushings and wall bushings, GIS bus ducts, towers and gantry structures and transmission towers or poles and line materials (conductors, earthwire, OPGW, insulator, accessories for conductors, OPGW & earthwires, hardware fittings for insulators, aviation lights etc), facilities and system shall be designed, constructed and tested (Type test, Routine tests, Factory Acceptance Test (FAT)) in accordance with relevant CEA Regulations and Indian Standards. In case Indian Standards for any particular equipment/ system/ process is not available, IEC/ IEEE or equivalent International Standards and Codes shall be followed.

#### **5.5 Progress Monitoring & Quality Assurance:**

- 5.5.1 The Project Execution Plan submitted by the TSP in accordance with Article 3.1.3 c) shall comprise of detailed schedule of all the equipments/items /materials required for the Project, right from procurement of raw material till the dispatch from works and receipt at the site. Further, it should also include various stages of the construction schedule up to the commissioning of the Project.
- 5.5.2 Nodal Agency, CEA & Independent Engineer shall have access at all reasonable times to the Site and to the Manufacturer's works and to all such places where the Project is being executed.
- 5.5.3 Independent Engineer shall ensure conformity of the conductor specifications with the functional specifications specified in RFP.
- 5.5.4 The Independent Engineer shall monitor the following during construction of the Project:
- Quality of equipments, material, foundation, structures and workmanship etc. as laid down in Article 5.4 and 6.1.4 of the TSA. Specifically, quality of Sub-station equipments, transmission line material and workmanship etc. would be checked in accordance with the Article 5.4.
  - Progress in the activities specified in Condition Subsequent

- c) Verification of readiness of the elements including the statutory clearances & completion of civil works, fixing of all components and finalisation of punch points (if any) prior to charging of the elements
- d) Progress of construction of substation and Transmission Lines

5.5.5 The progress shall be reviewed by the Independent Engineer against the Project Execution Plan. The Independent Engineer shall prepare its report on monthly basis and submit the same to Nodal Agency highlighting the progress achieved till the end of respective month vis-à-vis milestone activities, areas of concern, if any, which may result in delay in the timely completion of the Project. Based on the progress, Nodal Agency and/ or CEA shall issue written instructions to the TSP to take corrective measures, as may be prudent for the timely completion of the Project. In case of any deficiency, the Nodal Agency would be at liberty to take action in accordance with the procedure of this Agreement.

5.5.6 For any delay in commissioning any critical Element(s), as identified in Schedule 1 & Schedule 2 of this Agreement, beyond a period of 45 days shall lead to a sequestration of 10% of the Contract Performance Guarantee.

#### 5.6 Site regulations and Construction Documents

The TSP shall abide by the Safety Rules and Procedures as mentioned in Schedule 3 of this Agreement

The TSP shall retain at the Site and make available for inspection at all reasonable times, copies of the Consents, Clearances and Permits, construction drawings and other documents related to construction.

#### 5.7 Supervision of work:

The TSP shall provide all necessary superintendence for execution of the Project and its supervisory personnel shall be available to provide full-time superintendence for execution of the Project. The TSP shall provide skilled personnel who are experienced in their respective fields.

#### 5.8 Remedial Measures:

The TSP shall take all necessary actions for remedying the shortfall in achievement of timely progress in execution of the Project, if any, as intimated by the Independent Engineer and/ or CEA and/ or the Nodal Agency. However, such intimation by the Independent Engineer and/ or CEA and/ or the Nodal Agency and the subsequent effect of such remedial measures carried out by the TSP shall not relieve the TSP of its obligations in the Agreement. Independent Engineer and/ or CEA and/ or the Nodal Agency may carry out random inspections during the



Project execution, as and when deemed necessary by it. If the shortfalls as intimated to the TSP are not remedied to the satisfaction of the CEA and/ or the Nodal Agency, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

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**ARTICLE: 6**

**6 CONNECTION AND COMMISSIONING OF THE PROJECT**

**6.1 Connection with the Inter-Connection Facilities:**

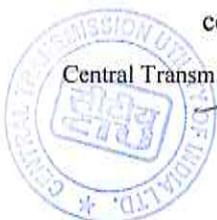
6.1.1 The TSP shall give the RLDC(s), CTU, / STU, as the case may be, and any other agencies as required, at least sixty (60) days advance written notice of the date on which it intends to connect an Element of the Project, which date shall not be earlier than its Scheduled COD or Schedule COD extended as per Article 4.4.1 & 4.4.2 of this Agreement, unless mutually agreed to by Parties. Further, any preponing of COD of any element prior to Scheduled COD must be approved by the Nodal Agency.

6.1.2 The RLDC / SLDC (as the case may be) or the CTU / STU (as the case may be), for reasonable cause, including non-availability of Interconnection Facilities as per Article 4.2, can defer the connection for up to fifteen (15) days from the date notified by the TSP pursuant to Article 6.1.1, if it notifies to the TSP in writing, before the date of connection, of the reason for the deferral and when the connection is to be rescheduled. However, no such deferment on one or more occasions would be for more than an aggregate period of thirty (30) days. Further, the Scheduled COD would be extended as required, for all such deferments on "day to day" basis.

6.1.3 Subject to Articles 6.1.1 and 6.1.2, any Element of Project may be connected with the Interconnection Facilities when:

- a. it has been completed in accordance with this Agreement and the Connection Agreement;
- b. it meets the Grid Code, Central Electricity Authority (Technical Standards for Connectivity to the Grid) Regulations, 2007 as amended from time to time and all other Indian legal requirements, and
- c. The TSP has obtained the approval in writing of the Electrical Inspector certifying that the Element is ready from the point of view of safety of supply and can be connected with the Interconnection Facilities.
- d. It has satisfactorily met all the testing requirements as per Articles 6.1.4

6.1.4 Site Acceptance Test (SAT)/ pre-commissioning tests of all major substation equipment, component, system, facilities shall be successfully carried out before commissioning. The Type tests, FAT and SAT reports should be available at the



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substation / terminal station of HVDC installations for ready reference of operation and maintenance staff and has to be made available to the Independent Engineer appointed for quality monitoring or their authorised representatives, as and when they wish to examine the same.

## 6.2 Commercial Operation:

6.2.1 An Element of the Project shall be declared to have achieved COD twenty-four (24) hours following the connection of the Element with the Interconnection Facilities pursuant to Article 6.1 or seven (7) days after the date on which it is declared by the TSP to be ready for charging but is not able to be charged for reasons not attributable to the TSP subject to Article 6.1.2.

Provided that an Element shall be declared to have achieved COD only after all the Element(s), if any, which are pre-required to have achieved COD as defined in Schedule 2 of this Agreement, have been declared to have achieved their respective COD.

6.2.2 Once any Element of the Project has been declared to have achieved deemed COD as per Article 6.2.1 above, such Element of the Project shall be deemed to have Availability equal to the Target Availability till the actual charging of the Element and to this extent, TSP shall be eligible for the Monthly Transmission Charges applicable for such Element

## 6.3 Compensation for Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event (affecting the Nodal Agency)

6.3.1 If the TSP is otherwise ready to connect the Element(s) of the Project and has given due notice, as per provisions of Article 6.1.1, to the concerned agencies of the date of intention to connect the Element(s) of the Project, where such date is not before the Scheduled COD, but is not able to connect the Element(s) of the Project by the said date specified in the notice, due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, provided such Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency has continued for a period of more than three (3) continuous or non-continuous Months, the TSP shall, until the effects of the Direct Non Natural Force Majeure Event or of Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency no longer prevent the TSP from connecting the Element(s) of the Project, be deemed to have achieved COD relevant to that date and to this extent, be deemed to have been providing Transmission Service with effect from the date notified,



and shall be treated as follows:

- a. In case of delay due to Direct Non Natural Force Majeure Event, TSP is entitled for Transmission Charges calculated on Target Availability for the period of such events in excess of three (3) continuous or non-continuous Months in the manner provided in (c) below.
- b. In case of delay due to Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, TSP is entitled for payment for debt service which is due under the Financing Agreements, subject to a maximum of Transmission Charges calculated on Target Availability, for the period of such events in excess of three (3) continuous or non-continuous Months in the manner provided in (c) below.
- c. In case of delay due to Direct Non Natural Force Majeure Event or Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency, the TSP is entitled for payments mentioned in (a) and (b) above, after commencement of Transmission Service, in the form of an increase in Transmission Charges. These amounts shall be paid from the date, being the later of a) the date of cessation of such Indirect Non Natural Force Majeure Event or Natural Force Majeure Event affecting the Nodal Agency and b) the completion of sixty (60) days from the receipt of the Financing Agreements by the Nodal Agency from the TSP.

Provided such increase in Transmission Charges shall be so as to put the TSP in the same economic position as the TSP would have been in case the TSP had been paid amounts mentioned in (a) and (b) above in a situation where the Force Majeure Event had not occurred.

For the avoidance of doubt, it is clarified that the charges payable under this Article 6.3.1 shall be recovered as per Sharing Regulations.

#### **6.4 Liquidated Damages for Delay in achieving COD of Project:**

- 6.4.1 If the TSP fails to achieve COD of any Element of the Project or the Project, by the Element's / Project's Scheduled COD or such Scheduled COD as extended under Articles 4.4.1 and 4.4.3, then the TSP shall pay to the Nodal Agency, a sum equivalent to 3.33% of Monthly Transmission Charges applicable for the Element of the Project [in case where no Elements have been defined, to be on the Project as a whole] / Project, for each day of delay up to sixty (60) days of delay and beyond that time limit, at the rate of five percent (5%) of the Monthly Transmission Charges applicable to such Element / Project, as liquidated damages



for such delay and not as penalty, without prejudice to any rights of the Nodal Agency under the Agreement.

- 6.4.2 The TSP's maximum liability under this Article 6.4 shall be limited to the amount of liquidated damages calculated in accordance with Article 6.4.1 for and up to six (6) months of delay for the Element or the Project.

Provided that, in case of failure of the TSP to achieve COD of the Element of the Project even after the expiry of six (6) months from its Scheduled COD, the provisions of Article 13 shall apply.

- 6.4.3 The TSP shall make payment to the Nodal Agency of the liquidated damages calculated pursuant to Article 6.4.1 within ten (10) days of the earlier of:

- a. the date on which the applicable Element achieves COD; or
- b. the date of termination of this Agreement.

The payment of such damages shall not relieve the TSP from its obligations to complete the Project or from any other obligation and liabilities under the Agreement.

- 6.4.4 If the TSP fails to pay the amount of liquidated damages to the Nodal Agency within the said period of ten (10) days, the Nodal Agency shall be entitled to recover the said amount of the liquidated damages by invoking the Contract Performance Guarantee. If the then existing Contract Performance Guarantee is for an amount which is less than the amount of the liquidated damages payable by the TSP to the Nodal Agency under this Article 6.3 and the TSP fails to make payment of the balance amount of the liquidated damages not covered by the Contract Performance Guarantee, then such balance amount shall be deducted from the Transmission Charges payable to the TSP. The right of the Nodal Agency to encash the Contract Performance Guarantee is without prejudice to the other rights of the Nodal Agency under this Agreement.

- 6.4.5 For avoidance of doubt, it is clarified that amount payable by TSP under this Article is over and above the penalty payable by TSP under Article 5.5.6 of this Agreement.

## 6.5 Return of Contract Performance Guarantee

- 6.5.1 The Contract Performance Guarantee as submitted by TSP in accordance with Article 3.1.1 shall be released by the Nodal Agency within three (3) months from the COD of the Project. In the event of delay in achieving Scheduled COD of any of the Elements by the TSP (otherwise than due to reasons as mentioned in Article 3.1.3 or Article 11) and consequent part invocation of the Contract Performance



Guarantee by the Nodal Agency, Nodal Agency shall release the Contract Performance Guarantee, if any remaining unadjusted, after the satisfactory completion by the TSP of all the requirements regarding achieving the Scheduled COD of the remaining Elements of the Project. It is clarified that the Nodal Agency shall also return / release the Contract Performance Guarantee in the event of (i) applicability of Article 3.3.2 to the extent the Contract Performance Guarantee is valid for an amount in excess of Rs. 58 Crore (Rupees Fifty Eight Crore only), or (ii) termination of this Agreement by the Nodal Agency as mentioned under Article 3.3.4 of this Agreement.

6.5.2 The release of the Contract Performance Guarantee shall be without prejudice to other rights of the Nodal Agency under this Agreement.



**ARTICLE: 7**

**7 OPERATION AND MAINTENANCE OF THE PROJECT**

**7.1 Operation and Maintenance of the Project:**

The TSP shall be responsible for ensuring that the Project is operated and maintained in accordance with the regulations made by the Commission and CEA from time to time and provisions of the Act.



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## ARTICLE: 8

### 8 AVAILABILITY OF THE PROJECT

#### 8.1 Calculation of Availability of the Project:

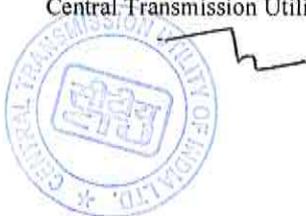
Calculation of Availability for the Elements and for the Project, as the case may be, shall be as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, as applicable on the Bid Deadline and as appended in Schedule 6 of this Agreement.

#### 8.2 Target Availability:

The Target Availability of each Element and the Project shall be 98%.

Payment of monthly Transmission charges based on actual availability will be calculated as per para 1.2 of Schedule 4 of this Agreement.

If the availability of any Element or the Project is below the Target Availability, for six consecutive months in a Contract Year, the DIC(s) or the Nodal Agency may issue a show cause notice to the TSP, asking them to show cause as to why the Transmission Service Agreement be not terminated, and if no satisfactory cause is shown it may terminate the Agreement. If the Nodal Agency is of the opinion that the transmission system is of critical importance, it may carry out or cause to carry the operation and maintenance of transmission system at the risk and cost of TSP.



**ARTICLE: 9**

**9 INSURANCES**

**9.1 Insurance:**

9.1.1 The TSP shall effect and maintain or cause to be effected and maintained during the Construction Period and the Operating Period, adequate Insurances against such risks, with such deductibles including but not limited to any third party liability and endorsements and co-beneficiary/insured, as may be necessary under

- a. any of the Financing Agreements,
- b. the Laws, and
- c. in accordance with Prudent Utility Practices.

The Insurances shall be taken effective from a date prior to the date of the Financial Closure till the Expiry Date.

**9.2 Evidence of Insurance cover:**

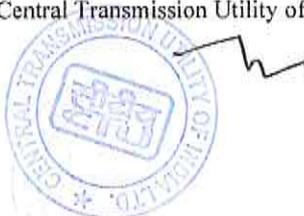
9.2.1 The TSP shall furnish to the Nodal Agency copies of certificates and policies of the Insurances, as and when the Nodal Agency may seek from the TSP as per the terms of Article 9.1

**9.3 Application of Insurance Proceeds:**

9.3.1 Save as expressly provided in this Agreement, the policies of Insurances and the Financing Agreements, the proceeds of any insurance claim made due to loss or damage to the Project or any part of the Project shall be first applied to reinstatement, replacement or renewal of such loss or damage.

9.3.2 If a Natural Force Majeure Event renders the Project no longer economically and technically viable and the insurers under the Insurances make payment on a "total loss" or equivalent basis, the portion of the proceeds of such Insurance available to the TSP (after making admissible payments to the Lenders as per the Financing Agreements) shall be allocated only to the TSP. Nodal Agency and / or concerned Designated ISTS Customers shall have no claim on such proceeds of the Insurance.

9.3.3 Subject to the requirements of the Lenders under the Financing Agreements, any dispute or difference between the Parties as to whether the Project is no longer economically and technically viable due to a Force Majeure Event or whether that event was adequately covered in accordance with this Agreement by the Insurances shall be determined in accordance with Article 16.



**9.4 Effect on liability of the Nodal Agency / Designated ISTS Customers**

9.4.1 The Nodal Agency and / or the Designated ISTS Customers shall have no financial obligations or liability whatsoever towards the TSP in respect of this Article 9.



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**ARTICLE: 10****10 BILLING AND PAYMENT OF TRANSMISSION CHARGES**

**10.1** Subject to provisions of this Article 10, the Monthly Transmission Charges shall be paid to the TSP, in Indian Rupees, on monthly basis as per the provisions of the Sharing Regulations, from the date on which an Element(s) has achieved COD until the Expiry Date of this Agreement, unless terminated earlier and in line with the provisions of Schedule 4 of this Agreement.

**10.2 Calculation of Monthly Transmission Charges:**

The Monthly Transmission Charges for each Contract Year including Incentive & Penalty payment shall be calculated in accordance with the provisions of Schedule 4 of this Agreement.

**10.3 Rebate & Late Payment Surcharge:**

The rebate and late payment surcharge shall be governed as per Sharing Regulations.

**10.4 Disputed Bills, Default in payment by the Designated ISTS Customers & Annual Reconciliation:**

Any Disputed Bill, Default in payment by the Designated ISTS Customers & Annual Reconciliation shall be governed as per Sharing Regulations.



**ARTICLE: 11**

**11 FORCE MAJEURE**

**11.1 Definitions**

11.1.1 The following terms shall have the meanings given hereunder.

**11.2 Affected Party**

11.2.1 An Affected Party means any Party whose performance has been affected by an event of Force Majeure.

11.2.2 Any event of Force Majeure shall be deemed to be an event of Force Majeure affecting the TSP only if the Force Majeure event affects and results in, late delivery of machinery and equipment for the Project or construction, completion, commissioning of the Project by Scheduled COD and/or operation thereafter;

**11.3 Force Majeure**

A 'Force Majeure' means any event or circumstance or combination of events and circumstances including those stated below that wholly or partly prevents or unavoidably delays an Affected Party in the performance of its obligations/ roles under this Agreement, but only if and to the extent that such events or circumstances are not within the reasonable control, directly or indirectly, of the Affected Party and could not have been avoided if the Affected Party had taken reasonable care or complied with Prudent Utility Practices:

**(a) Natural Force Majeure Events:**

- i. act of God, including, but not limited to drought, fire and explosion (to the extent originating from a source external to the Site), earthquake, volcanic eruption, landslide, flood, cyclone, typhoon, tornado, or exceptionally adverse weather conditions, which are in excess of the statistical measures for the last hundred (100) years; and
- ii. epidemic/ pandemic notified by Indian Governmental Instrumentality.

**(b) Non-Natural Force Majeure Events :**

- i. Direct Non-Natural Force Majeure Events
  - Nationalization or compulsory acquisition by any Indian Governmental Instrumentality of any material assets or rights of the Affected Party; or



- the unlawful, unreasonable or discriminatory revocation of, or refusal to renew, any Consents, Clearances and Permits required by the Affected Party to perform their obligations/ roles under the RFP Project Documents or any unlawful, unreasonable or discriminatory refusal to grant any other Consents, Clearances and Permits required for the development/ operation of the Project, provided that a Competent Court of Law declares the revocation or refusal to be unlawful, unreasonable and discriminatory and strikes the same down; or
- any other unlawful, unreasonable or discriminatory action on the part of an Indian Governmental Instrumentality which is directed against the Project, provided that a Competent Court of Law declares the action to be unlawful, unreasonable and discriminatory and strikes the same down.

ii. Indirect Non - Natural Force Majeure Events

- act of war (whether declared or undeclared), invasion, armed conflict or act of foreign enemy, blockade, embargo, revolution, riot, insurrection, terrorist or military action; or
- radio active contamination or ionising radiation originating from a source in India or resulting from any other Indirect Non Natural Force Majeure Event mentioned above, excluding circumstances where the source or cause of contamination or radiation is brought or has been brought into or near the Site by the Affected Party or those employed or engaged by the Affected Party; or
- industry-wide strikes and labour disturbances, having a nationwide impact in India.

#### 11.4 Force Majeure Exclusions

11.4.1 Force Majeure shall not include (i) any event or circumstance which is within the reasonable control of the Parties and (ii) the following conditions, except to the extent that they are consequences of an event of Force Majeure:

- (a) Unavailability, late delivery, or changes in cost of the machinery, equipment, materials, spare parts etc. for the Project;
- (b) Delay in the performance of any Contractors or their agents;
- (c) Non-performance resulting from normal wear and tear typically experienced



in transmission materials and equipment;

- (d) Strikes or labour disturbance at the facilities of the Affected Party;
- (e) Insufficiency of finances or funds or the Agreement becoming onerous to perform; and
- (f) Non-performance caused by, or connected with, the Affected Party's:
  - i. negligent or intentional acts, errors or omissions;
  - ii. failure to comply with an Indian Law; or
  - iii. breach of, or default under this Agreement or any Project Documents.
- (g) Any error or omission in the survey report provided by BPC during the bidding process.

## 11.5 Notification of Force Majeure Event

- 11.5.1 The Affected Party shall give notice to the other Party of any event of Force Majeure as soon as reasonably practicable, but not later than seven (7) days after the date on which such Party knew or should reasonably have known of the commencement of the event of Force Majeure. If an event of Force Majeure results in a breakdown of communications rendering it unreasonable to give notice within the applicable time limit specified herein, then the Party claiming Force Majeure shall give such notice as soon as reasonably practicable after reinstatement of communications, but not later than one (1) day after such reinstatement.

Provided that, such notice shall be a pre-condition to the Affected Party's entitlement to claim relief under this Agreement. Such notice shall include full particulars of the event of Force Majeure, its effects on the Party claiming relief and the remedial measures proposed. The Affected Party shall give the other Party regular reports on the progress of those remedial measures and such other information as the other Party may reasonably request about the Force Majeure.

- 11.5.2 The Affected Party shall give notice to the other Party of (i) the cessation of the relevant event of Force Majeure; and (ii) the cessation of the effects of such event of Force Majeure on the performance of its rights or obligations/ roles under this Agreement, as soon as practicable after becoming aware of each of these cessations.

## 11.6 Duty to perform and duty to mitigate

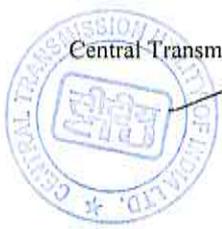


To the extent not prevented by a Force Majeure Event, the Affected Party shall continue to perform its obligations/ roles as provided in this Agreement. The Affected Party shall use its reasonable efforts to mitigate the effect of any event of Force Majeure as soon as practicable.

#### 11.7 Available Relief for a Force Majeure Event

Subject to this Article 11,

- (a) no Party shall be in breach of its obligations/ roles pursuant to this Agreement to the extent that the performance of its obligations/ roles was prevented, hindered or delayed due to a Force Majeure Event;
- (b) each Party shall be entitled to claim relief for a Force Majeure Event affecting its performance in relation to its obligations/ roles under Articles 3.3.4, 4.4.2 and 6.3.1 of this Agreement.
- (c) For the avoidance of doubt, it is clarified that the computation of Availability of the Element(s) under outage due to Force Majeure Event, as per Article 11.3 affecting the TSP shall be as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024 as on Bid Deadline. For the event(s) for which the Element(s) is/are deemed to be available as per Appendix –IV to Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations, 2024, then the Transmission Charges, as applicable to such Element(s), shall be payable as per Schedule 4, for the duration of such event(s).
- (d) For so long as the TSP is claiming relief due to any Force Majeure Event under this Agreement, the Nodal Agency may, if it so desires, from time to time on one (1) day notice, inspect the Project and the TSP shall provide the Nodal Agency's personnel with access to the Project to carry out such inspections.
- (e) For avoidance of doubt, the TSP acknowledges that for extension of Scheduled COD a period up to one hundred eighty (180) days due to Force Majeure event, no compensation on the grounds such as interest cost, incident expenditure, opportunity cost will be made to the TSP. However, if Scheduled COD is extended beyond a period of one hundred eighty (180) days due to Force Majeure event, the TSP will be allowed to recover the interest cost during construction corresponding to the period exceeding one hundred eighty (180) days by adjustment in the Transmission Charges in accordance with Schedule 9.



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**ARTICLE: 12**

**12 CHANGE IN LAW**

**12.1 Change in Law**

12.1.1 Change in Law means the occurrence of any of the following after the Bid Deadline resulting into any additional recurring / non-recurring expenditure by the TSP or any savings of the TSP:

- the enactment, coming into effect, adoption, promulgation, amendment, modification or repeal (without re-enactment or consolidation) in India, of any Law, including rules and regulations framed pursuant to such Law, subject to the provisions under Article 12.1.2;
- a change in the interpretation or application of any Law by any Indian Governmental Instrumentality having the legal power to interpret or apply such Law, or any Competent Court of Law;
- the imposition of a requirement for obtaining any Consents, Clearances and Permits which was not required earlier;
- a change in the terms and conditions prescribed for obtaining any Consents, Clearances and Permits or the inclusion of any new terms or conditions for obtaining such Consents, Clearances and Permits;
- any change in the licensing regulations of the Commission, under which the Transmission License for the Project was granted if made applicable by such Commission to the TSP;
- change in wind zone; or
- any change in tax or introduction of any tax made applicable for providing Transmission Service by the TSP as per the terms of this Agreement.

12.1.2 Notwithstanding anything contained in this Agreement, Change in Law shall not cover any change:

- a) Taxes on corporate income; and
- b) Withholding tax on income or dividends distributed to the shareholders of the TSP.



**12.2 Relief for Change in Law**

12.2.1 During Construction Period, the impact of increase/decrease in the cost of the Project on the Transmission Charges shall be governed by the formula given in Schedule 9 of this Agreement.

12.2.2 During the Operation Period:

During the operation period, if as a result of Change in Law, the TSP suffers or is benefited from a change in costs or revenue, the aggregate financial effect of which exceeds 0.30% (zero point three percent) of the Annual Transmission Charges in aggregate for a Contract Year, the TSP may notify so to the Nodal Agency and propose amendments to this Agreement so as to place the TSP in the same financial position as it would have enjoyed had there been no such Change in Law resulting in change in costs or revenue as aforesaid.

12.2.3 For any claims made under Articles 12.2.1 and 12.2.2 above, the TSP shall provide to the Nodal Agency documentary proof of such increase / decrease in cost of the Project / revenue for establishing the impact of such Change in Law.

In cases where Change in Law results in decrease of cost and it comes to the notice of Nodal Agency that TSP has not informed Nodal Agency about such decrease in cost, Nodal Agency may initiate appropriate claim.

**12.3 Notification of Change in Law:**

12.3.1 If the TSP is affected by a Change in Law in accordance with Article 12.1 and wishes to claim relief for such Change in Law under this Article 12, it shall give notice to Nodal Agency of such Change in Law as soon as reasonably practicable after becoming aware of the same.

12.3.2 The TSP shall also be obliged to serve a notice to the Nodal Agency even when it is beneficially affected by a Change in Law.

12.3.3 Any notice served pursuant to Articles 12.3.1 and 12.3.2 shall provide, amongst other things, precise details of the Change in Law and its estimated impact on the TSP.

**12.4 Payment on account of Change in Law**

12.4.1 The payment for Change in Law shall be through a separate Bill. However, in case of any change in Monthly Transmission Charges by reason of Change in Law, as determined in accordance with this Agreement, the Bills to be raised by



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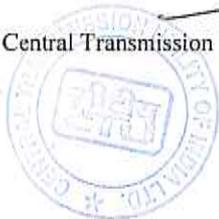
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the Nodal Agency after such change in Transmission Charges shall appropriately reflect the changed Monthly Transmission Charges.

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**ARTICLE: 13****13 EVENTS OF DEFAULT AND TERMINATION****13.1 TSP's Event of Default**

The occurrence and continuation of any of the following events shall constitute a TSP Event of Default, unless any such TSP Event of Default occurs as a result of any non-fulfilment of its obligations as prescribed under this Agreement by the Nodal Agency or a Force Majeure Event:

- a. After having taken up the construction of the Project, the abandonment by the TSP or the TSP's Contractors of the construction of the Project for a continuous period of two (2) months and such default is not rectified within thirty (30) days from the receipt of notice from the Nodal Agency in this regard;
- b. The failure to commission any Element of the Project by the date falling six (6) months after its Scheduled COD unless extended by Nodal Agency as per provisions of this Agreement;
- c. If the TSP:
  - i. assigns, mortgages or charges or purports to assign, mortgage or charge any of its assets or rights related to the Project in contravention of the provisions of this Agreement; or
  - ii. transfers or novates any of its obligations pursuant to this Agreement, in a manner contrary to the provisions of this Agreement;

Except where such transfer is in pursuance of a Law and

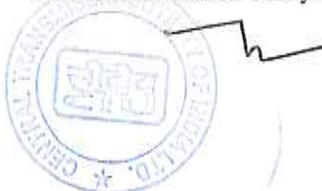
- it does not affect the ability of the transferee to perform, and such transferee has the financial and technical capability to perform, its obligations under this Agreement;
  - is to a transferee who assumes such obligations under the Project and this Agreement remains effective with respect to the transferee;
- d. If:
    - i. The TSP becomes voluntarily or involuntarily the subject of any bankruptcy or insolvency or winding up proceedings and such

proceedings remain uncontested for a period of thirty (30) days;  
or

- ii. any winding up or bankruptcy or insolvency order is passed against the TSP; or
- iii. the TSP goes into liquidation or dissolution or a receiver or any similar officer is appointed over all or substantially all of its assets or official liquidator is appointed to manage its affairs, pursuant to Law,

Provided that a dissolution or liquidation of the TSP will not be a TSP's Event of Default, where such dissolution or liquidation of the TSP is for the purpose of a merger, consolidation or reorganization with the prior approval of the Commission as per the provisions of Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 or as amended from time to time; or

- e. Failure on the part of the TSP to comply with the provisions of Article 19.1 of this Agreement; or
- f. the TSP repudiates this Agreement and does not rectify such breach even within a period of thirty (30) days from a notice from the Nodal Agency in this regard; or
- g. after Commercial Operation Date of the Project, the TSP fails to achieve monthly Target Availability of 98%, for a period of six (6) consecutive months or within a non-consecutive period of six (6) months within any continuous aggregate period of eighteen(18) months except where the Availability is affected by Force Majeure Events as per Article 11; or
- h. any of the representations and warranties made by the TSP in Article 17 of this Agreement being found to be untrue or inaccurate. Further, in addition to the above, any of the undertakings submitted by the Selected Bidder at the time of submission of the Bid being found to be breached or inaccurate, including but not limited to undertakings from its Parent Company / Affiliates related to the minimum equity obligation; or
- i. the TSP fails to complete / fulfil all the activities / conditions within the specified period as per Article 3; or



- j. except for the reasons solely attributable to Nodal Agency, the TSP is in material breach of any of its obligations under this Agreement and such material breach is not rectified by the TSP within thirty (30) days of receipt of notice in this regard from the Nodal Agency; or
- k. the TSP fails to take the possession of the land required for location specific substations, switching stations or HVDC terminal or inverter stations and / or fails to pay the requisite price to the parties and / or any State Government authority from whom the land is acquired, within twelve (12) months from the Effective Date.

**13.2 Termination Procedure for TSP Event of Default**

- a. Upon the occurrence and continuance of any TSP's Event of Default under Article 13.1 the Nodal Agency may serve notice on the TSP, with a copy to the CEA and the Lenders' Representative, of their intention to terminate this Agreement (a "Nodal Agency's Preliminary Termination Notice"), which shall specify in reasonable detail, the circumstances giving rise to such Nodal Agency's Preliminary Termination Notice.
- b. Following the issue of a Nodal Agency's Preliminary Termination Notice, the Consultation Period shall apply and would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant Event of Default having regard to all the circumstances.
- c. During the Consultation Period, the Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement, and the TSP shall not remove any material, equipment or any part of the Project, without prior consent of the Nodal Agency.

Following the expiry of the Consultation Period, unless the Parties shall have otherwise agreed to the contrary or the circumstances giving rise to Nodal Agency's Preliminary Termination Notice shall have ceased to exist or shall have been remedied, this Agreement may be terminated by the Nodal Agency by giving a Termination Notice to the TSP, in writing, of at least seven (7) days, with a copy to CEA and the Lenders' Representative in order to enable the Lenders to exercise right of substitution in accordance with Article 15.3 of this Agreement.

Further, the Nodal Agency may also initiate proceedings to blacklist the TSP & its Affiliates from participation in any RFP issued by BPCs for a period of 5 years.

**13.3 Procedure for Nodal Agency's non-fulfilment of Role**

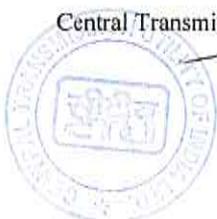
- a. Upon the Nodal Agency not being able to fulfil its role under Article 4.2, the TSP may serve notice on the Nodal Agency, with a copy to CEA and the Lenders' Representative (a "TSP's Preliminary Notice"), which notice shall specify in reasonable detail the circumstances giving rise to such non-fulfilment of role by the Nodal Agency.
- b. Following the issue of a TSP's Preliminary Notice, the Consultation Period shall apply.
- c. The Consultation Period would be for the Parties to discuss as to what steps shall be taken with a view to mitigate the consequences of the relevant non-fulfilment of role by the Nodal Agency including giving time extension to TSP, having regard to all the circumstances.
- d. During the Consultation Period, both Parties shall, save as otherwise provided in this Agreement, continue to perform their respective obligations/ roles under this Agreement.

**13.4 Termination due to Force Majeure**

- 13.4.1 In case the Parties could not reach an agreement pursuant to Articles 3.3.4 and 4.4.2 of this Agreement and the Force Majeure Event or its effects continue to be present, the Nodal Agency shall have the right to cause termination of the Agreement. In case of such termination, the Contract Performance Guarantee shall be returned to the TSP as per the provisions of Article 6.5.1.
- 13.4.2 In case of termination of this Agreement, the TSP shall provide to the Nodal Agency the full names and addresses of its Contractors as well as complete designs, design drawings, manufacturing drawings, material specifications and technical information, as required by the Nodal Agency within thirty (30) days of Termination Notice.

**13.5 Termination or amendment due to non-requirement of any Element or Project during construction**

- 13.5.1 In case any Element or Project, which is under construction, is no longer required due to any reason whatsoever, the Nodal Agency may issue a notice to this effect to the TSP.
- 13.5.2 Nodal agency may also issue notice to the TSP seeking their response to the proposed termination/ amendment (as the case may be) of the Agreement. The Nodal Agency shall issue copy of such notice to Lenders. In the notice, Nodal



Agency shall also include an assessment of the physical progress made by TSP in the Element/ Project (as the case may be) that is no longer required.

13.5.3 The TSP shall neither carry out further investment nor carry out any work on the Element/ Project (as the case may be) that is no longer required after delivery of the notice.

13.5.4 After taking into account the comments of the TSP, the Nodal Agency may terminate the Agreement or amend it if both Parties agree to the amendment.

### 13.6 Revocation of the Transmission License

13.6.1 The Commission may, as per the provisions of the Electricity Act, 2003, revoke the Transmission License of the ISTS Licensee. Further, in such a case, the Agreement shall be deemed to have been terminated.

### 13.7 Termination Payment

13.7.1 If Agreement is terminated on account of Force Majeure Events, non-requirement of any Element or Project during Construction, Nodal Agency's non-fulfilment of Role & TSP's Event of Default, the TSP shall be entitled for Termination Payment equivalent to valuation of Project Assets. Upon payment, the Nodal Agency shall take over the Project Assets.



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**ARTICLE: 14**

**14 LIABILITY AND INDEMNIFICATION**

**14.1 Indemnity**

14.1.1 The TSP shall indemnify, defend and hold the Nodal Agency harmless against:

- (a) any and all third party claims, actions, suits or proceedings against the Nodal Agency for any loss of or damage to property of such third party, or death or injury to such third party, arising out of a breach by the TSP of any of its obligations under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of Nodal Agency; and
- (b) any and all losses, damages, costs and expenses including legal costs, fines, penalties and interest actually suffered or incurred by the Nodal Agency from third party claims arising by reason of:
  - i. a breach by the TSP of any of its obligations under this Agreement, (provided that this Article 14 shall not apply to such breaches by the TSP, for which specific remedies have been provided for under this Agreement) except to the extent that any such losses, damages, costs and expenses including legal costs, fines, penalties and interest (together to constitute "Indemnifiable Losses") has arisen due to a negligent act or omission, breach of this Agreement or non-fulfilment of statutory duty on the part of the Nodal Agency, or
  - ii. any of the representations and warranties of the TSP under this Agreement being found to be inaccurate or untrue.

14.1.2 The Nodal Agency shall, in accordance with the Regulations framed by CERC in this regard, indemnify, defend and hold the TSP harmless against:

- (a) any and all third party claims, actions, suits or proceedings against the TSP, for any loss of or damage to property of such third party, or death or injury to such third party, arising out of any material breach by the Nodal Agency of any of their roles under this Agreement, except to the extent that any such claim, action, suit or proceeding has arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents; and
- (b) any and all losses, damages, costs and expenses including legal costs, fines,



penalties and interest ('Indemnifiable Losses') actually suffered or incurred by the TSP from third party claims arising by reason of:

- i. any material breach by the Nodal Agency of any of its roles under this Agreement (provided that, this Article 14 shall not apply to such breaches by the Nodal Agency, for which specific remedies have been provided for under this Agreement), except to the extent that any such Indemnifiable Losses have arisen due to a negligent act or omission, breach of this Agreement or breach of statutory duty on the part of the TSP, its Contractors, servants or agents or
- ii. any of the representations and warranties of the Nodal Agency under this Agreement being found to be inaccurate or untrue.

**14.2 Patent Indemnity:**

**14.2.1**

- (a) The TSP shall, subject to the Nodal Agency's compliance with Article 14.2.1 (b), indemnify and hold harmless the Nodal Agency and its employees and officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs, and expenses of whatsoever nature, including attorney's fees and expenses, which the Nodal Agency may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.

Such indemnity shall not cover any use of the Project or any part thereof other than for the purpose indicated by or to be reasonably inferred from the Agreement, any infringement resulting from the misuse of the Project or any part thereof, or any products produced in association or combination with any other equipment, plant or materials not supplied by the TSP, pursuant to the Agreement.

- (b) If any proceedings are brought or any claim is made against the Nodal Agency arising out of the matters referred to in Article 14.2.1(a), the Nodal Agency shall promptly give the TSP a notice thereof, and the TSP shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The TSP shall promptly notify the Nodal Agency of all actions taken in such proceedings or claims.



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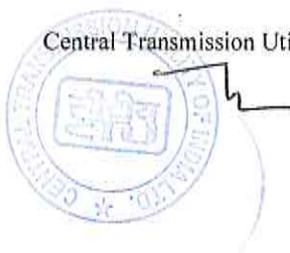
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- (c) If the TSP fails to notify the Nodal Agency within twenty-eight (28) days after receipt of such notice from the Nodal Agency under Article 14.2.1(b) above, that it intends to attend any such proceedings or claim, then the Nodal Agency shall be free to attend the same on their own behalf at the cost of the TSP. Unless the TSP has so failed to notify the Nodal Agency within the twenty eight (28) days period, the Nodal Agency shall make no admission that may be prejudicial to the defence of any such proceedings or claims.
- (d) The Nodal Agency shall, at the TSP's request, afford all available assistance to the TSP in attending to such proceedings or claim, and shall be reimbursed by the TSP for all reasonable expenses incurred in so doing.

14.2.2

- (a) The Nodal Agency, in accordance with the Regulations framed by CERC in this regard, subject to the TSP's compliance with Article 14.2.2(b) shall indemnify and hold harmless the TSP and its employees, officers from and against any and all suits, actions or administrative proceedings, claims, demands, losses, damages, costs and expenses of whatsoever nature, including attorney's fees and expenses, which the TSP may suffer as a result of any infringement or alleged infringement of any patent, utility model, registered design, trademark, copyright or other intellectual property right registered or otherwise existing at the date of the Agreement by reason of the setting up of the Project by the TSP.
- (b) If any proceedings are brought or any claim is made against the TSP arising out of the matters referred to in Article 14.2.2 (a) the TSP shall promptly give the Nodal Agency a notice thereof, and the Nodal Agency shall at its own expense take necessary steps and attend such proceedings or claim and any negotiations for the settlement of any such proceedings or claim. The Nodal Agency shall promptly notify the TSP of all actions taken in such proceedings or claims.
- (c) If the Nodal Agency fails to notify the TSP within twenty-eight (28) days after receipt of such notice from the TSP under Article 14.2.2(b) above, that it intends to attend any such proceedings or claim, then the TSP shall be free to attend the same on its own behalf at the cost of the Nodal Agency. Unless the Nodal Agency has so failed to notify the TSP within the twenty (28) days period, the TSP shall make no admission that may be prejudicial to the defence of any such proceedings or claim.
- (d) The TSP shall, at the Nodal Agency request, afford all available assistance to the Nodal Agency in attending to such proceedings or claim, and shall be



reimbursed by the Nodal Agency for all reasonable expenses incurred in so doing.

**14.3 Monetary Limitation of liability**

14.3.1 A Party ("Indemnifying Party") shall be liable to indemnify the other Party ("Indemnified Party") under this Article 14 for any indemnity claims made in a Contract Year only up to an amount of Rupees Three Crore Eighty Seven Lakhs Only (Rs. 3.87 Crore).

**14.4 Procedure for claiming indemnity**

14.4.1 Where the Indemnified Party is entitled to indemnification from the Indemnifying Party pursuant to Articles 14.1 or 14.2 the Indemnified Party shall promptly notify the Indemnifying Party of such claim, proceeding, action or suit referred to in Articles 14.1 or 14.2 in respect of which it is entitled to be indemnified. Such notice shall be given as soon as reasonably practicable after the Indemnified Party becomes aware of such claim, proceeding, action or suit. The Indemnifying Party shall be liable to settle the indemnification claim within thirty (30) days of receipt of the above notice.

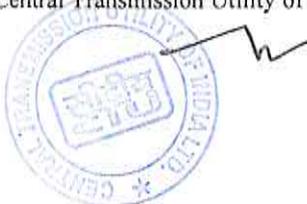
Provided however that, if:

- i. the Parties choose to contest, defend or litigate such claim, action, suit or proceedings in accordance with Article 14.4.3 below; and
- ii. the claim amount is not required to be paid/deposited to such third party pending the resolution of the Dispute,

the Indemnifying Party shall become liable to pay the claim amount to the Indemnified Party or to the third party, as the case may be, promptly following the resolution of the Dispute, if such Dispute is not settled in favour of the Indemnified Party.

14.4.2 The Indemnified Party may contest, defend and litigate a claim, action, suit or proceeding for which it is entitled to be indemnified under Articles 14.1 or 14.2 and the Indemnifying Party shall reimburse to the Indemnified Party all reasonable costs and expenses incurred by the Indemnified Party. However, such Indemnified Party shall not settle or compromise such claim, action, suit or proceedings without first getting the consent of the Indemnifying Party, which consent shall not be unreasonably withheld or delayed.

14.4.3 An Indemnifying Party may, at its own expense, assume control of the defence of any proceedings brought against the Indemnified Party if it acknowledges its



obligation to indemnify such Indemnified Party, gives such Indemnified Party prompt notice of its intention to assume control of the defence, and employs an independent legal counsel at its own cost that is reasonably satisfactory to the Indemnified Party.

**14.5 Limitation on Liability**

14.5.1 Except as expressly provided in this Agreement, neither the TSP nor the Nodal Agency nor their respective officers, directors, agents, employees or Affiliates (including, officers, directors, agents or employees of such Affiliates), shall be liable or responsible to the other Party or its Affiliates including its officers, directors, agents, employees, successors, insurers or permitted assigns for incidental, indirect or consequential, punitive or exemplary damages, connected with or resulting from performance or non-performance of this Agreement, or anything done in connection herewith, including claims in the nature of lost revenues, income or profits (other than payments expressly required and properly due under this Agreement), any increased expense of, reduction in or loss of transmission capacity or equipment used therefore, irrespective of whether such claims are based upon breach of warranty, tort (including negligence, whether of the Nodal Agency, the TSP or others), strict liability, contract, breach of statutory duty, operation of law or otherwise.

14.5.2 The Nodal Agency shall have no recourse against any officer, director or shareholder of the TSP or any Affiliate of the TSP or any of its officers, directors or shareholders for such claims excluded under this Article. The TSP shall also have no recourse against any officer, director or shareholder of the Nodal Agency, or any Affiliate of the Nodal Agency or any of its officers, directors or shareholders for such claims excluded under this Article.

**14.6 Duty to Mitigate**

The party entitled to the benefit of an indemnity under this Article 14 shall take all reasonable measures to mitigate any loss or damage which has occurred. If the Party fails to take such measures, the other Party's liabilities shall be correspondingly reduced.



**ARTICLE: 15**

**15 ASSIGNMENTS AND CHARGES**

**15.1 Assignments:**

15.1.1 This Agreement shall be binding upon, and inure to the benefit of the Parties and their respective successors and permitted assigns. This Agreement shall not be assigned by any Party, except as provided in Article 15.3.

**15.2 Permitted Charges:**

15.2.1 Neither Party shall create or permit to subsist any encumbrance over all or any of its rights and benefits under this Agreement.

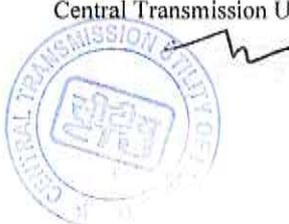
15.2.2 However, the TSP may create any encumbrance over all or part of the receivables, or the Project Assets of the Project in favour of the Lenders or the Lenders' Representative on their behalf, as security for amounts payable under the Financing Agreements and any other amounts agreed by the Parties.

Provided that:

- i. the Lenders or the Lenders' Representative on their behalf shall have entered into the Financing Agreements and agreed in writing to the provisions of this Agreement; and
- ii. any encumbrance granted by the TSP in accordance with this Article 15.2.2 shall contain provisions pursuant to which the Lenders or the Lender's Representative on their behalf agrees unconditionally with the TSP to release from such encumbrances upon payment by the TSP to the Lenders of all amounts due under the Financing Agreements.

15.2.3 Article 15.2.1 does not apply to:

- a. liens arising by operation of law (or by an agreement evidencing the same) in the ordinary course of the TSP developing and operating the Project;
- b. pledges of goods, the related documents of title and / or other related documents, arising or created in the ordinary course of the TSP developing and operating the Project; or
- c. security arising out of retention of title provisions in relation to goods acquired in the ordinary course of the TSP developing and operating the Project.



**15.3 Substitution Rights of the Lenders**

15.3.1 The TSP would need to operate and maintain the Project under the provisions of this Agreement and cannot assign the Transmission License or transfer the Project or part thereof to any person by sale, lease, exchange or otherwise, without the prior approval of the Nodal Agency.

15.3.2 However, in the case of default by the TSP in debt repayments or in the case of default by the TSP as per Article 13 of this Agreement during the debt repayments, the Commission may, on an application from the Lenders, assign the Transmission License to the nominee of the Lenders subject to the fulfilment of the qualification requirements and provisions of the Central Electricity Regulatory Commission (Procedure, terms and Conditions for grant of Transmission License and other related matters) Regulations, 2006 and as amended from time to time.

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**ARTICLE: 16**

**16 GOVERNING LAW AND DISPUTE RESOLUTION**

**16.1 Governing Law:**

This Agreement shall be governed by and construed in accordance with the Laws of India. Any legal proceedings in respect of any matters, claims or disputes under this Agreement shall be under the jurisdiction of appropriate courts in Delhi.

**16.2 Amicable Settlement:**

16.2.1 Either Party is entitled to raise any claim, dispute or difference of whatever nature arising under, out of or in connection with this Agreement, including its existence or validity or termination or whether during the execution of the Project or after its completion and whether prior to or after the abandonment of the Project or termination or breach of the Agreement by giving a written notice to the other Party, which shall contain:

- (i) a description of the Dispute;
- (ii) the grounds for such Dispute; and
- (iii) all written material in support of its claim.

16.2.2 The other Party shall, within thirty (30) days of issue of notice issued under Article 16.2.1, furnish:

- (i) counter-claim and defences, if any, regarding the Dispute; and
- (ii) all written material in support of its defences and counter-claim.

16.2.3 Within thirty (30) days of issue of notice by the Party pursuant to Article 16.2.1, if the other Party does not furnish any counter claim or defense under Article 16.2.2, or thirty (30) days from the date of furnishing counter claims or defence by the other Party, both the Parties to the Dispute shall meet to settle such Dispute amicably. If the Parties fail to resolve the Dispute amicably within thirty (30) days from the later of the dates mentioned in this Article 16.2.3, the Dispute shall be referred for dispute resolution in accordance with Article 16.3.

**16.3 Dispute Resolution:**

All Disputes shall be adjudicated by the Commission.

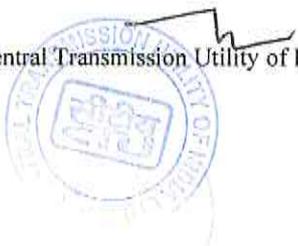
**16.4 Parties to Perform Obligations:**

Notwithstanding the existence of any Dispute and difference referred to the



Commission as provided in Article 16.3 and save as the Commission may otherwise direct by a final or interim order, the Parties hereto shall continue to perform their respective obligations/ roles (which are not in dispute) under this Agreement.

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**ARTICLE: 17****17 REPRESENTATION AND WARRANTIES****17.1 Representation and warranties of the Nodal Agency**

17.1.1 The Nodal Agency hereby represents and warrants to and agrees with the TSP as follows and acknowledges and confirms that the TSP is relying on such representations and warranties in connection with the transactions described in this Agreement:

- a. It has all requisite powers and authority to execute and consummate this Agreement;
- b. This Agreement is enforceable against the Nodal Agency in accordance with its terms;
- c. The consummation of the transactions contemplated by this Agreement on the part of Nodal Agency will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the Nodal Agency is a Party or to which the Nodal Agency is bound, which violation, default or power has not been waived;

**17.2 Representation and Warranties of the TSP:**

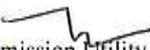
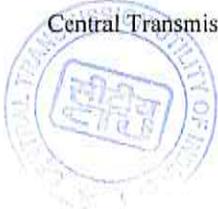
17.2.1 The TSP hereby represents and warrants to and agrees with the Nodal Agency as follows and acknowledges and confirms that the Nodal Agency is relying on such representations and warranties in connection with the transactions described in this Agreement:

- a. It has all requisite powers and has been duly authorized to execute and consummate this Agreement;
- b. This Agreement is enforceable against it, in accordance with its terms;
- c. The consummation of the transactions contemplated by this Agreement on the part of the TSP will not violate any provision of nor constitute a default under, nor give rise to a power to cancel any charter, mortgage, deed of trust or lien, lease, agreement, license, permit, evidence of indebtedness, restriction, or other contract to which the TSP is a Party or to which the TSP is bound which violation, default or power has not been waived;
- d. The TSP is not insolvent and no insolvency proceedings have been instituted, nor threatened or pending by or against the TSP;



- e. There are no actions, suits, claims, proceedings or investigations pending or, to the best of the TSP's knowledge, threatened in writing against the TSP at law, in equity, or otherwise, and whether civil or criminal in nature, before or by, any court, commission, arbitrator or governmental agency or authority, and there are no outstanding judgments, decrees or orders of any such courts, commission, arbitrator or governmental agencies or authorities, which materially adversely affect its ability to execute the Project or to comply with its obligations under this Agreement.

17.2.2 The TSP makes all the representations and warranties above to be valid as on the Effective Date of this Agreement.

  
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New Delhi  
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**ARTICLE: 18****18 INDEPENDENT ENGINEER****18.1 Appointment of Independent Engineer**

The Nodal Agency shall appoint an agency/ company as Independent Engineer as per framework provided in the Guidelines for Encouraging Competition in Development of Transmission Projects for selection of Independent Engineer.

**18.2 Roles and functions of Independent Engineer**

The role and functions of the Independent Engineer shall include the following:

- a. Progress Monitoring as required under this Agreement;
- b. Ensuring Quality as required under this Agreement;
- c. determining, as required under the Agreement, the costs of any works or services and/or their reasonableness during construction phase;
- d. determining, as required under the Agreement, the period or any extension thereof, for performing any duty or obligation during construction phase;
- e. determining, as required under the Agreement, the valuation of the Project Assets.
- f. Assisting the Parties in resolution of Disputes and
- g. Undertaking all other duties and functions in accordance with the Agreement.

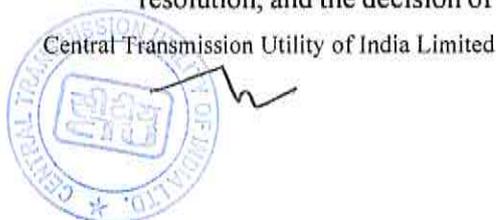
**18.3 Remuneration of Independent Engineer**

The fee and charges of the Independent Engineer shall be paid by the Nodal Agency as per terms & conditions of appointment.

**18.4 Termination of appointment**

18.4.1 The Nodal Agency may, in its discretion, terminate the appointment of the Independent Engineer at any time, but only after appointment of another Independent Engineer.

18.4.2 If the TSP has reason to believe that the Independent Engineer is not discharging its duties and functions in a fair, efficient and diligent manner, it may make a written representation to the Nodal Agency and seek termination of the appointment of the Independent Engineer. Upon receipt of such representation, the Nodal Agency shall hold a tripartite meeting with the TSP and Independent Engineer for an amicable resolution, and the decision of Nodal agency is final. In the event that the appointment



of the Independent Engineer is terminated hereunder, the Nodal Agency shall appoint forthwith another Independent Engineer.

**18.5 Authorised signatories**

The Nodal Agency shall require the Independent Engineer to designate and notify to the Nodal Agency up to 2 (two) persons employed in its firm to sign for and on behalf of the Independent Engineer, and any communication or document required to be signed by the Independent Engineer shall be valid and effective only if signed by any of the designated persons; provided that the Independent Engineer may, by notice in writing, substitute any of the designated persons by any of its employees.



ARTICLE: 19

19 MISCELLANEOUS PROVISIONS

19.1 Equity Lock-in Commitment:

19.1.1 The aggregate equity share holding of the Selected Bidder in the issued and paid up equity share capital of ERES-XXXIX Power Transmission Limited shall not be less than Fifty-one percent (51%) up to a period of one (1) year after COD of the Project.

Provided that, in case the Lead Member or Bidding Company is holding equity through Affiliate/s, Ultimate Parent Company or Parent Company, such restriction as specified above shall apply to such entities.

Provided further, that in case the Selected Bidder is a Bidding Consortium, the Lead Member shall continue to hold equity of at least twenty-six percent (26%) upto a period of one (1) year after COD of the Project and any Member of such Bidding Consortium shall be allowed to divest its equity as long as the other remaining Members (which shall always include the Lead Member) hold the minimum equity specified above.

19.1.2 If equity is held by the Affiliates, Parent Company or Ultimate Parent Company of the Selected Bidder, then, subject to the second proviso to Article 19.1.1, such Affiliate, Parent Company or Ultimate Parent Company shall be eligible to transfer its shareholding in ERES-XXXIX Power Transmission Limited to another Affiliate or to the Parent Company / Ultimate Parent Company of the Selected Bidder. If any such shareholding entity, qualifying as an Affiliate / Parent Company / Ultimate Parent Company, is likely to cease to meet the criteria to qualify as an Affiliate / Parent Company / Ultimate Parent Company, the shares held by such entity shall be transferred to another Affiliate / Parent Company / Ultimate Parent Company of the Selected Bidder.

19.1.3 Subject to Article 19.1.1, all transfer(s) of shareholding of ERES-XXXIX Power Transmission Limited by any of the entities referred to in Article 19.1.1 and 19.1.2 above, shall be after prior written intimation to the Nodal Agency.

19.1.4 For computation of effective Equity holding, the Equity holding of the Selected Bidder or its Ultimate Parent Company in such Affiliate(s) or Parent Company and the equity holding of such Affiliate(s) or Ultimate Parent Company in ERES-XXXIX Power Transmission Limited shall be computed in accordance with the example given below:

If the Parent Company or the Ultimate Parent Company of the Selected Bidder A directly holds thirty percent (30%) of the equity in ERES-XXXIX Power Transmission Limited, then holding of Selected Bidder A in ERES-XXXIX



Power Transmission Limited shall be thirty percent (30%);

If Selected Bidder A holds thirty percent (30%) equity of the Affiliate and the Affiliate holds fifty percent (50%) equity in ERES-XXXIX Power Transmission Limited, then, for the purposes of ascertaining the minimum equity/equity lock-in requirements specified above, the effective holding of Bidder A in ERES-XXXIX Power Transmission Limited shall be fifteen percent (15%), (i.e., 30% x 50%)

19.1.5 The provisions as contained in this Article 19.1 shall override the terms of the consortium agreement submitted as part of the Bid.

19.1.6 The TSP shall be responsible to report to Nodal Agency, within thirty (30) days from the occurrence of any event that would result in any change in its equity holding structure from that which existed as on the date of signing of the Share Purchase Agreement. In such cases, the Nodal Agency would reserve the right to ascertain the equity holding structure and to call for all such required documents / information / clarifications as may be required.

## 19.2 Commitment of maintaining Qualification Requirement

19.2.1 The Selected Bidder will be required to continue to maintain compliance with the Qualification Requirements, as stipulated in RFP Document, till the COD of the Project. Where the Technically Evaluated Entity and/or the Financially Evaluated Entity is not the Bidding Company or a Member in a Bidding Consortium, as the case may be, the Bidding Company or Member shall continue to be an Affiliate of the Technically Evaluated Entity and/or Financially Evaluated Entity till the COD of the Project.

19.2.2 Failure to comply with the aforesaid provisions shall be dealt in the same manner as TSP's Event of Default as under Article 13 of this Agreement.

## 19.3 Language:

19.3.1 All agreements, correspondence and communications between the Parties relating to this Agreement and all other documentation to be prepared and supplied under the Agreement shall be written in English, and the Agreement shall be construed and interpreted in accordance with English language.

19.3.2 If any of the agreements, correspondence, communications or documents are prepared in any language other than English, the English translation of such agreements, correspondence, communications or documents shall prevail in matters of interpretation.

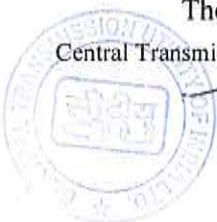
## 19.4 Affirmation

The TSP and the Nodal Agency, each affirm that:

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1. neither it nor its respective directors, employees, or agents has paid or undertaken to pay or shall in the future pay any unlawful commission, bribe, pay-off or kick-back; and
2. it has not in any other manner paid any sums, whether in Indian currency or foreign currency and whether in India or abroad to the other Party to procure this Agreement, and the TSP and the Nodal Agency hereby undertake not to engage in any similar acts during the Term of Agreement.

#### 19.5 Severability

The invalidity or enforceability, for any reason, of any part of this Agreement shall not prejudice or affect the validity or enforceability of the remainder of this Agreement, unless the part held invalid or unenforceable is fundamental to this Agreement.

#### 19.6 Counterparts

This Agreement may be executed in one or more counterparts, each of which shall be deemed an original and all of which collectively shall be deemed one and the same Agreement.

#### 19.7 Breach of Obligations/ Roles

The Parties acknowledge that a breach of any of the obligations/ roles contained herein would result in injuries. The Parties further acknowledge that the amount of the liquidated damages or the method of calculating the liquidated damages specified in this Agreement is a genuine and reasonable pre-estimate of the damages that may be suffered by the non-defaulting Party in each case specified under this Agreement.

#### 19.8 Restriction of Shareholders / Owners Liability

- 19.8.1 Parties expressly agree and acknowledge that none of the shareholders of the Parties hereto shall be liable to the other Parties for any of the contractual obligations of the concerned Party under this Agreement.
- 19.8.2 Further, the financial liabilities of the shareholder(s) of each Party to this Agreement shall be restricted to the extent provided in the Indian Companies Act, 1956 / Companies Act, 2013 (as the case may be).

#### 19.9 Taxes and Duties:

- 19.9.1 The TSP shall bear and promptly pay all statutory taxes, duties, levies and cess, assessed/levied on the TSP, its Contractors or their employees that are required to be paid by the TSP as per the Law in relation to the execution of the Project and for providing Transmission Service as per the terms of this Agreement.



19.9.2 The Nodal Agency shall be indemnified and held harmless by the TSP against any claims that may be made against the Nodal Agency in relation to the matters set out in Article 19.9.1.

19.9.3 The Nodal Agency shall not be liable for any payment of, taxes, duties, levies, cess whatsoever for discharging any obligation of the TSP by the Nodal Agency on behalf of TSP or its personnel, provided the TSP has consented in writing to the Nodal Agency for such work, for which consent shall not be unreasonably withheld.

**19.10 No Consequential or Indirect Losses**

The liability of the TSP shall be limited to that explicitly provided in this Agreement.

Provided that, notwithstanding anything contained in this Agreement, under no event shall the Nodal Agency or the TSP claim from one another any indirect or consequential losses or damages.

**19.11 Discretion:**

Except where this Agreement expressly requires a Party to act fairly or reasonably, a Party may exercise any discretion given to it under this Agreement in any way it deems fit.

**19.12 Confidentiality**

19.12.1 The Parties undertake to hold in confidence this Agreement and RFP Project Documents and not to disclose the terms and conditions of the transaction contemplated hereby to third parties, except:

- (a) to their professional advisors;
- (b) to their officers, contractors, employees, agents or representatives, financiers, who need to have access to such information for the proper performance of their activities; or
- (c) disclosures required under Law,

without the prior written consent of the other Parties.

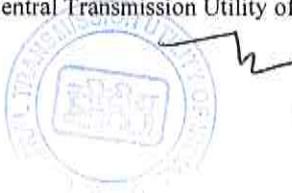
Provided that, the TSP agrees and acknowledges that the Nodal Agency, may, at any time, disclose the terms and conditions of the Agreement and the RFP Project Documents to any person, to the extent stipulated under the Law and the Competitive Bidding Guidelines.

**19.13 Order of priority in application:**

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Save as provided in Article 2.5, in case of inconsistencies between the terms and conditions stipulated in Transmission License issued by the Commission to the TSP, agreement(s) executed between the Parties, applicable Law including rules and regulations framed thereunder, the order of priority as between them shall be the order in which they are placed below:

- terms and conditions of Transmission License;
- applicable Law, rules and regulations framed thereunder;
- this Agreement;
- Agreement(s), if any, under Sharing Regulations.

**19.14 Independent Entity:**

19.14.1 The TSP shall be an independent entity performing its obligations pursuant to the Agreement.

19.14.2 Subject to the provisions of the Agreement, the TSP shall be solely responsible for the manner in which its obligations under this Agreement are to be performed. All employees and representatives of the TSP or Contractors engaged by the TSP in connection with the performance of the Agreement shall be under the complete control of the TSP and shall not be deemed to be employees, representatives, Contractors of the Nodal Agency and nothing contained in the Agreement or in any agreement or contract awarded by the TSP shall be construed to create any contractual relationship between any such employees, representatives or Contractors and the Nodal Agency.

**19.15 Amendments:**

19.15.1 This Agreement may only be amended or supplemented by a written agreement between the Parties.

**19.16 Waiver:**

19.16.1 No waiver by either Party of any default or breach by the other Party in the performance of any of the provisions of this Agreement shall be effective unless in writing duly executed by an authorised representative of such Party.

19.16.2 Neither the failure by either Party to insist on any occasion upon the performance of the terms, conditions and provisions of this Agreement nor time or other indulgence granted by one Party to the other Parties shall act as a waiver of such breach or acceptance of any variation or the relinquishment of any such right or any other right under this Agreement, which shall remain in full force and effect.

**19.17 Relationship of the Parties:**

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This Agreement shall not be interpreted or construed to create an association, joint venture, or partnership or agency or any such other relationship between the Parties or to impose any partnership obligation or liability upon either Party and neither Party shall have any right, power or authority to enter into any agreement or undertaking for, or act on behalf of, or to act as or be an agent or representative of, or to otherwise bind, the other Party.

## 19.18 Entirety:

19.18.1 This Agreement along with its sections, schedules and appendices is intended by the Parties as the final expression of their agreement and is intended also as a complete and exclusive statement of the terms of their agreement.

19.18.2 Except as provided in this Agreement, all prior written or oral understandings, offers or other communications of every kind pertaining to this Agreement or the provision of Transmission Service under this Agreement to the Nodal Agency by the TSP shall stand superseded and abrogated.

## 19.19 Notices:

19.19.1 All notices or other communications which are required to be given under this Agreement shall be in writing and in the English language

19.19.2 If to the TSP, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addressee below:

Address : B-12/13, Shatabdi Bhawan, Sector 4, Noida - 201301  
Attention : Piyush Kumar  
Email : piyushkumar@tatapower.com  
Fax. No. :  
Telephone No.: 01206102309

19.19.3 If to the Nodal Agency, all notices or communications must be delivered personally or by registered post or facsimile or any other mode duly acknowledged to the addresses below:

### (i) CENTRAL TRANSMISSION UTILITY OF INDIA LIMITED

Address : Floor No. 5-10, Tower 1, Plot No. 16, IRCON  
International Tower, Institutional Area, Sector 32,  
Gurugram, Haryana – 122001  
Attention : Mr. Atul Kumar Agarwal, CGM  
Email : atul\_ag@powergrid.in

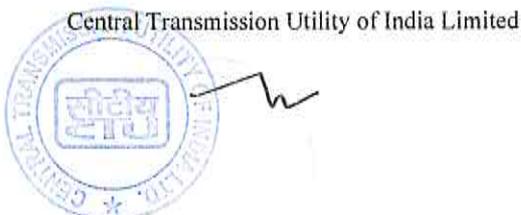


Fax No. :  
Telephone No. : 9910378059

- 19.19.4 All notices or communications given by facsimile shall be confirmed by sending a copy of the same via post office in an envelope properly addressed to the appropriate Party for delivery by registered mail. All notices shall be deemed validly delivered upon receipt evidenced by an acknowledgement of the recipient, unless the Party delivering the notice can prove in case of delivery through the registered post that the recipient refused to acknowledge the receipt of the notice despite efforts of the postal authorities.
- 19.19.5 Any Party may by notice of at least fifteen (15) days to the other Party change the address and/or addresses to which such notices and communications to it are to be delivered or mailed.

## 19.20 Fraudulent and Corrupt Practices

- 19.20.1 The TSP and its respective officers, employees, agents and advisers shall observe the highest standard of ethics during the subsistence of this Agreement. Notwithstanding anything to the contrary contained in the Agreement, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP, if it determines that the TSP has, directly or indirectly or through an agent, engaged in corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice in the Bid process. In such an event, the Nodal Agency shall forfeit the Contract Performance Guarantee of the TSP, without prejudice to any other right or remedy that may be available to the Nodal Agency hereunder or subsistence otherwise.
- 19.20.2 Without prejudice to the rights of the Nodal Agency under Clause 19.20.1 hereinabove and the rights and remedies which the Nodal Agency may have under this Agreement, if a TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practice during the Bid process, or after the issue of Letter of Intent (hereinafter referred to as LoI) or after the execution of the agreement(s) required under Sharing Regulations, the Nodal Agency may terminate the Agreement without being liable in any manner whatsoever to the TSP. Further, the TSP & its Affiliates shall not be eligible to participate in any tender or RFP issued by any BPC for an indefinite period from the date such TSP is found by the Nodal Agency to have directly or indirectly or through an agent, engaged or indulged in any corrupt practice, fraudulent practice, coercive practice, undesirable practice or restrictive practices, as the case may be.



19.20.3 For the purposes of this Clause 19.20, the following terms shall have the meaning hereinafter respectively assigned to them:

(a) **“corrupt practice”** means (i) the offering, giving, receiving, or soliciting, directly or indirectly, of anything of value to influence the actions of any person connected with the Bid process (for avoidance of doubt, offering of employment to or employing or engaging in any manner whatsoever, directly or indirectly, any official of the BPC who is or has been associated or dealt in any manner, directly or indirectly with the Bid process or the LoI or has dealt with matters concerning the RFP Project Documents or arising there from, before or after the execution thereof, at any time prior to the expiry of one year from the date such official resigns or retires from or otherwise ceases to be in the service of the BPC, shall be deemed to constitute influencing the actions of a person connected with the Bid Process); or (ii) engaging in any manner whatsoever, whether during the Bid Process or after the issue of the LoI or after the execution of the RFP Project Documents, as the case may be, any person in respect of any matter relating to the Project or the LoI or the RFP Project Documents, who at any time has been or is a legal, financial or technical adviser of the BPC in relation to any matter concerning the Project;

(b) **“fraudulent practice”** means a misrepresentation or omission of facts or suppression of facts or disclosure of incomplete facts, in order to influence the Bid process;

(c) **“coercive practice”** means impairing or harming, or threatening to impair or harm, directly or indirectly, any person or property to influence any person’s participation or action in the Bid process;

(d) **“undesirable practice”** means (i) establishing contact with any person connected with or employed or engaged by the BPC with the objective of canvassing, lobbying or in any manner influencing or attempting to influence the Bid process; or (ii) having a Conflict of Interest; and

(e) **“restrictive practice”** means forming a cartel or arriving at any understanding or arrangement among Bidders with the objective of restricting or manipulating a full and fair competition in the Bid process;

**19.21 Compliance with Law:**

Despite anything contained in this Agreement but without prejudice to Article 12, if any provision of this Agreement shall be in deviation or inconsistent with or repugnant to the provisions contained in the Electricity Act, 2003, or any rules and regulations made there under, such provision shall be deemed to be amended to the extent required to bring it into compliance with the aforesaid relevant provisions as amended from time to time.



IN WITNESS WHEREOF, THE PARTIES HAVE CAUSED THIS AGREEMENT TO BE EXECUTED BY THEIR DULY AUTHORISED REPRESENTATIVES AS OF THE DATE AND PLACE SET FORTH ABOVE.

1. For and on behalf of TSP

[Signature]
[Stamp: Central Transmission Utility of India Ltd.]
[Signature, Name, Designation and Address]
Vijay Kumar
Head (BD)

2. For and on behalf of ..... [Insert name of the Nodal Agency]

[Signature]
[Stamp: JASBIR SINGH, Executive Director]
[Signature, Name, Designation and Address]
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
(A Wholly Owned Subsidiary of
Power Grid Corporation of India Ltd)
(A Government of India Enterprises)
Plot No.-2, Sector-29, Gurgaon- 122 001 (Haryana)

WITNESSES:

1. For and on behalf of
: BPC

[Signature]
[Signature]
(RITAM BISWAS)
ASST. MANAGER (ENGS.)
RBCPDCL
[Insert, Name, Designation and Address of the Witness]

2. For and on behalf of
: Nodal Agency

[Signature]
[Signature]
[Insert Name, Designation and Address of the Witness]
KAMAL KUMAR JAIN
Senior General Manager
CENTRAL TRANSMISSION UTILITY OF INDIA LTD.
(A Wholly Owned Subsidiary of
Power Grid Corporation of India Ltd)
(A Government of India Enterprises)
Plot No.-2, Sector-29, Gurgaon- 122 001 (Haryana)

## SCHEDULES



Central Transmission Utility of India Limited

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ERES-XXXIX Power Transmission Limited



New Delhi  
110003

Schedule: 1

Project Description and Scope of Project

Scope of the Project:

Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
1.	<p>Establishment of new 765/400 kV, 2x1500 MVA GIS substation at Gopalpur in Odisha</p> <ul style="list-style-type: none"> <li>• 765/400 kV, 1500 MVA ICTs: 2 nos. (7x500MVA single phase units including one spare)</li> <li>• 765 kV ICT bays: 2 nos.</li> <li>• 400 kV ICT bays: 2 nos.</li> <li>• 765 kV, 330 MVAr Bus reactor: 2 nos. (7x110 MVAr single phase units including one spare unit for both bus and line reactors)</li> <li>• 765 kV Bus reactor bays: 2 nos.</li> <li>• 420 kV, 125 MVAr Bus reactor: 2 nos.</li> <li>• 400 kV Bus reactor bays: 2 nos.</li> <li>• 765 kV line bays: 2 nos.</li> </ul> <p><i>[for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAr switchable line reactor at Gopalpur end in both circuits]</i></p> <ul style="list-style-type: none"> <li>• 400 kV line bays: 2 nos.</li> </ul> <p><i>[for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]</i></p> <ul style="list-style-type: none"> <li>• 765 kV, 330 MVAr (3x110 MVAr single phase units) switchable line reactor along with associated bay and 500 ohm NGR (with NGR bypass arrangement) <i>[at Gopalpur end in both circuits of Angul (POWERGRID) – Gopalpur 765 kV D/c line]</i>: 2 nos.</li> </ul>	31.12.2027

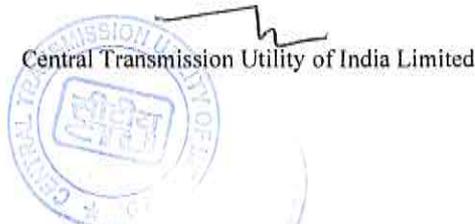


Central Transmission Utility of India Limited

ERES-XXXIX Power Transmission Limited



Sl. No.	Scope of the Transmission Scheme	Scheduled COD in months from Effective Date
	<p><b>Additional space for future expansion:</b></p> <ul style="list-style-type: none"> <li>• 765/400 kV, 4x1500 MVA ICTs (12x500MVA single phase units) along with associated ICT bays at both voltage levels</li> <li>• 400/220 kV, 4x500 MVA ICTs along with associated ICT bays at both voltage levels</li> <li>• 765 kV, 2x330 MVA (6x110 MVA single phase units) bus reactor along with associated bays</li> <li>• 420 kV, 2x125 MVA bus reactor along with associated bays</li> <li>• 8 nos. of 765 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 10 nos. of 400 kV line bays (along with space for switchable line reactor) for future lines</li> <li>• 12 nos. of 220 kV line bays for future lines</li> <li>• 765 kV bus sectionaliser bay: 1 set</li> <li>• 400 kV bus sectionaliser bay: 1 set</li> <li>• 220 kV bus sectionaliser bay :1 set</li> <li>• 220 kV bus coupler bay: 2 no.</li> </ul>	
2.	Angul – Gopalpur 765 kV D/c line	
3.	<p>Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS</p> <ul style="list-style-type: none"> <li>• 765 kV AIS line bays (along with space for future switchable line reactor): 2 nos. [for termination of Angul (POWERGRID) – Gopalpur 765 kV D/c line] including bus extension in GIS of about 3000 m</li> </ul>	
4.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line@	
5.	<p>Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s</p> <ul style="list-style-type: none"> <li>• 400 kV GIS line bays: 2 nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line] + #2 nos. for diameter completion</li> </ul>	



**Note:**

- a) @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20 km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- b) #The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) - Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) - Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- d) POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) - Gopalpur 765 kV D/c line.

## Project Description

In view of upcoming Green Hydrogen and Green Ammonia plants/industries in Gopalpur, Odisha area with cumulative demand of about 3 GW by 2025-26 and Gopalpur's locational advantage, Govt. of Odisha proposed for establishment of a new 765 kV S/s in the area under ISTS. It was also mentioned that there is a requirement of ISTS corridor to supply RE power from outside Odisha to such industries, to meet their Renewable Purchase Obligation (RPO). Thus, keeping in view critical nature of large industrial demand and quantum of power requirement it was essential that Gopalpur S/s is feed reliably from ISTS and with high capacity transmission lines.

As Gopalpur is in coastal area and within 60 km from coastline, Gopalpur (ISTS) S/s is planned to be implemented in GIS in line with the recommendation of Report of Task Force on Cyclone Resilient Robust Electricity Transmission and Distribution Infrastructure in Coastal Area published by CEA in May 2021 for construction of new substations up to 60 km from the coastline.

After exploring various alternatives for establishment of Gopalpur 765 kV ISTS S/s, the present scheme for establishment of Gopalpur 765/400 kV new substation along with Angul – Gopalpur 765 kV D/c line and Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line was approved in the 18th CMETS-ER held on 27th Apr 2023. Further, the scheme has also been recommended by ERPC in its 50th meeting held on 11-08-2023. Thereafter, NCT in its 16th meeting held on 30-11-2023 has also recommended the implementation of the subject ISTS scheme.



**SPECIFIC TECHNICAL REQUIREMENTS FOR TRANSMISSION LINE**

- A.1.0 The design, routing and construction of transmission lines shall be in accordance with Chapter V, Part A of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time. Other CEA Regulations and MoP guidelines, as applicable, shall also be followed.
- A.2.0 Selection of tower type shall be made as per CEA Regulations, however in case lattice type towers are used, the following shall also be applicable:
  - A.2.1 Steel section of grade E 250 and/or grade E 350 as per IS 2062, only are permitted for use in towers, extensions, gantry structures and stub setting templates. For towers in snowbound areas, steel sections shall conform to Grade-C of IS-2062.
  - A.2.2 Towers shall be designed as per IS-802:2015, however the drag coefficient of the tower shall be as follows: -

Solidity Ratio	Drag Coefficient
Up to 0.05	3.6
0.1	3.4
0.2	2.9
0.3	2.5
0.4	2.2
0.5 and above	2.0

- A.3.0 Transmission Service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.
- A.4.0 Transmission line shall be designed considering wind zones as specified in wind map given in National Building Code 2016, Vol.1. The developer shall also make his own assessment of local wind conditions and frequent occurrences of high intensity winds (HIW) due to thunderstorms, dust-storms, downburst etc. along the line route and wherever required, higher wind zone than that given in wind map shall be considered for tower design for ensuring reliability of line. Further, for transmission line sections passing within a distance of 50 km from the boundary of two wind zones, higher of the two wind zones shall be considered for design of towers located in such sections.
- A.5.0 Selection of reliability level for design of tower shall be as per CEA Regulation (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.
- A.6.0 A) For power line crossing of 400 kV or above voltage level, large angle and dead end towers (i.e. D/DD/QD) shall be used on either side of power line crossing.  
  
B) For power line crossing of 132 kV and 220 kV voltage level, angle towers (B/C/D/DB/DC/DD/ QB/QC/QD) shall be used on either side of power line

crossing depending upon the merit of the prevailing site condition and line deviation requirement.

- C) For power line crossing of 66 kV and below voltage level, suspension/tension towers shall be provided on either side of power line crossing depending upon the merit of the prevailing site condition and line deviation requirement.
- D) For crossing of railway tracks, national highways and state highways, rules/regulations of appropriate authorities shall be followed.

A.7.0 The relevant conductor configuration shall be as follows: -

<b>Transmission line</b>	<b>ACSR Conductor specified</b>	<b>Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy</b>	<b>Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*</b>	<b>Sub-conductor Spacing</b>
765 kV D/C (Hexa Zebra) Transmission Lines	Zebra : Stranding 54/3.18 mm-Al + 7/3.18 mm-Steel, 428 mm <sup>2</sup> , Aluminium area, 28.62 mm diameter  Maximum DC Resistance at 20°C (Ω/km): 0.06868  Minimum UTS: 130.32 kN	Stranding details: 61/3.19 mm, 28.71 mm diameter;  487.5 mm <sup>2</sup> Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.06815  Minimum UTS: 135.6 kN	Stranding details: 61/3.08mm, 27.72 mm diameter;  454 mm <sup>2</sup> Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.0653  Minimum UTS: 108 kN	457 mm
400 kV D/C (Quad Moose) Transmission Lines	<b>Moose: Stranding</b> 54/3.53mm-Al + 7/3.53 mm-Steel,	<b>Stranding details:</b> 61/3.55mm 31.95mm diameter;	<b>Stranding details:</b> 61/3.31 mm	457 mm



Central Transmission Utility of India Limited



Transmission line	ACSR Conductor specified	Equivalent AAAC conductor based on 53.5% conductivity of Al Alloy	Equivalent minimum size of AL59 conductor based on 59% conductivity of AL Alloy*	Sub-conductor Spacing
	31.77 mm diameter  528.5 mm <sup>2</sup> , Aluminium area,  Maximum DC Resistance at 20°C (Ω/km): 0.05552 Minimum UTS: 161.20 kN	604 mm <sup>2</sup>  Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.05506  Minimum UTS: 159.80 kN	29.79 mm diameter;  525 mm <sup>2</sup>  Aluminium alloy area  Maximum DC Resistance at 20°C (Ω/km): 0.0566  Minimum UTS: 124.70 kN	

**Note:**

1. \*To select any size above the minimum, the sizes mentioned in the Indian standard IS-398 (part-6) shall be followed.
2. The transmission lines shall have to be designed for a maximum operating conductor temperature of 85 deg C.

A.8.0 The required phase to phase spacing and horizontal spacing for 765 kV and 400 kV line shall be governed by the tower design as well as minimum live metal clearances for 765 kV and 400 kV voltage level under different insulator swing angles. However, the phase to phase spacing for 765 kV and 400 kV lines shall not be less than 15 m and 8 m respectively.

A.9.0 All electrical clearances including minimum live metal clearance, ground clearance and minimum mid span separation between earth wire and conductor as given below shall be considered:

**I. Minimum live metal clearances for 765 kV line:**

- a) (i) Under stationary conditions



From tower body: For 765 kV D/C: 6.1 m

For 765 kV S/C: 5.6 m

(ii) Under swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (25°)	4.4 m
b) Swing angle (55°)	1.3 m

b) Minimum ground clearance for 765 kV line: 18 m

c) Minimum mid span separation between earth wire and conductor for 765 kV line: 9.0 m

**II. Minimum live metal clearances for 400 kV line:**

a) (i) Under stationary conditions:

From tower body: 3.05 m

(ii) Under Swing conditions

Wind Pressure Condition	Minimum Electrical Clearance
a) Swing angle (22°)	3.05 m
b) Swing angle (44°)	1.86 m

b) Minimum ground clearance for 400 kV line: 8.84 m

c) Minimum mid span separation between earthwire and conductor for 400 kV line: 9.0 m

A.10.0 Shielding angle shall not exceed 10 deg for 765 kV D/C and 20 deg for 400 kV transmission line.

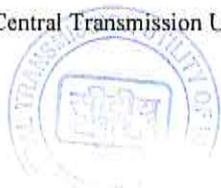
A.11.0 The Fault current for design of line shall be 50 kA for 1 sec for 765 kV and 63 kA for 1 sec for 400 kV.

A.12.0 In case of 765 kV and 400 kV voltage class lines, at least one out of two earth wires shall be OPGW and second earth wire, if not OPGW, shall be either of galvanized standard steel (GSS) or Aluminum Alloy Conductor Steel Reinforced (AACSR)



conductor type or any other suitable conductor type depending upon span length and other technical consideration.

- A.13.0 Each tower shall be earthed such that tower footing impedance does not exceed 10 ohms. Pipe type or Counterpoise type earthing shall be provided in accordance with relevant IS. Additional earthing shall be provided on every 7 to 8 km distance at tension tower for direct earthing of both shield wires. If site condition demands, multiple earthing or use of earthing enhancement compound shall be used.
- A.14.0 Pile type foundation shall be used for towers located in river or creek bed or on bank of river having scourable strata or in areas where river flow or change in river course is anticipated, based on detailed soil investigation and previous years' maximum flood discharge of the river, maximum velocity of water, highest flood level, scour depth and anticipated change in course of river based on river morphology data of at least past 20 years to ensure availability and reliability of the transmission line.
- A.15.0 Transmission line route shall be finalized, in consultation with appropriate authorities so as to avoid the habitant zones of endangered species and other protected species. Bird diverters, wherever required, shall be provided on the line.
- A.16.0 Wherever, transmission lines are passing through cyclone prone areas i.e. areas up to 60 km from coast following shall also be applicable:
- a) Terrain category-I, with terrain roughness factor (K2) of 1.08 shall be considered for tower design for exposed open terrain with few or no obstruction which also includes open sea coasts, open stretch of water, desert and flat treeless plains.
  - b) Importance factor for cyclonic region (K4) of 1.3 shall be considered for tower design.
  - c) The number of consecutive spans between the section points/ angle point shall not exceed 10 spans or 3 km instead of conventional practice of 15 spans or 5 km, in order to reduce the failure of such towers in coastal areas due to cascading effect. The section shall be terminated with tension tower/ angle tower and angle of deviation should be based on the site requirement.
- A.17.0 Wherever, transmission lines are passing through cyclone prone areas (i.e. areas up to 60 km from coast)/ creek regions/ aggressive soil areas following shall also be applicable:
- a) The fabricated tower parts and stubs shall have a minimum overall zinc coating of 900 g/m<sup>2</sup> of surface area except for plates and sections below 5 mm which shall have a minimum overall zinc coating of 610 g/ m<sup>2</sup> of surface area. The average zinc coating for all sections and plates 5 mm and above shall be maintained as 127 microns and that for plates and sections below 5 mm shall be maintained as 87 microns.



- b) Ready mix concrete of M30 Grade shall be used to avoid use of locally available saline water. However, design mix concrete of M30 Grade conforming to IS 456 with potable water can be used at locations where transportation of ready-mix concrete is not feasible. Minimum cement content in any case shall not be less than 330 kg/m<sup>3</sup>.
  - c) The surface of the reinforced steel shall be treated with epoxy-based coating to enhance corrosion performance of foundation. Use of epoxy coated reinforcement in foundation shall be as per IS 13620. In addition, two (2) coats of bituminous painting of minimum 1.6 kg/m<sup>2</sup> per coat shall be applied on all exposed faces of foundation (i.e. pedestal and base slab).
  - d) Double coat 20 mm thick cement plaster shall be provided on all exposed concrete surface as well up to 300 mm below ground level to give protection to concrete surface from environmental and saline effect.
  - e) Before coping of chimney top portion, three coats of anti-corrosive paint of minimum 30-35 microns dry film thickness each shall be applied on the stub in the 50 mm coping portion as well as up to 350 mm above CL portion.
- A.18.0 The raised chimney foundation is to be provided in areas prone to flooding/water stagnation like paddy field /agricultural field and undulated areas to avoid direct contact of water with steel part of tower. The top of the chimney of foundation should be at least above HFL (High Flood Level) or the historical water stagnation/ logging level (based on locally available data) or above High Tide Level or 500 mm above Natural Ground level (whichever is higher).
- A.19.0 Routing of transmission line through protected areas of India shall be avoided to the extent possible. In case, it is not possible to avoid protected areas, the towers of the transmission line up to 400 kV level which are installed in protected areas shall be designed for Multi-circuit (4 circuits) configuration of same voltage level considering reliability level of at least two (2). The top two circuits of these multi-circuit towers shall be used for stringing of the transmission line under present scope and the bottom two circuits shall be made available for stringing of any future transmission line of any transmission service providers/ State transmission utilities/Central transmission utilities passing through the same protected area. Further, the configuration and coordinates of such transmission towers shall be submitted to CEA, CTU and BPC by the TSP.
- A.20.0 The TSP shall abide by the Guidelines of CEA w.r.t. shifting of transmission lines for NHAI projects and other projects.
- A.21.0 Safety precautions in regards to gas/oil pipe lines in vicinity of Transmission lines shall be taken in coordination with gas/ petroleum authorities.



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**SPECIFIC TECHNICAL REQUIREMENTS FOR SUBSTATION**

The proposed Gopalpur substation shall be Gas Insulated Switchgear (GIS) type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

Extension of 765 kV Angul substation shall be conventional AIS type generally conforming to the requirements of CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations 2022, as amended from time to time.

All other CEA Regulations/guidelines as amended up to date and MoP guidelines shall also be followed.

**B.1.0 Salient features of Substation Equipment and Facilities**

The design and specification of substation equipment are to be governed by the following factors:

**B.1.1 Insulation Coordination**

The system design parameters for substations/switchyards shall be as given below:

Sl No	Description of parameters	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV System	400 kV System	765 kV System	400 kV System
1.	System operating voltage	765 kV	400 kV	765 kV	400 kV
2.	Maximum voltage of the system (rms)	800 kV	420 kV	800 kV	420 kV



Sl No	Description of parameters	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV System	400 kV System	765 kV System	400 kV System
3.	Rated frequency	50 Hz	50 Hz	50 Hz	50 Hz
4.	No. of phases	3	3	3	3
5.	Rated Insulation levels				
i)	Lightning Impulse withstand voltage for (1.2/50 micro sec.) <ul style="list-style-type: none"> <li>- for Equipment other than Transformer and Reactors</li> <li>- for Insulator String</li> </ul>	2100 kVp 2100 kVp	1425 kVp 1550 kVp	2100 kVp 2100 kVp	1425 kVp 1550 kVp
ii)	Switching impulse withstand voltage (250/2500 micro sec.) dry and wet	1425 kVp	1050 kVp	1550 kVp	1050 kVp
iii)	One minute power frequency dry withstand voltage (rms)	830 kV (AIS) 960 kV (GIS)	630 kV (AIS) 650 kV (GIS)	830 kV	630 kV (AIS) 650 kV (GIS)
6.	Corona extinction voltage	508 kV	320 kV	508 kV	320 kV



SI No	Description of parameters	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV System	400 kV System	765 kV System	400 kV System
7.	Max. radio interference voltage for frequency between 0.5 MHz and 2 MHz	2500 micro-volts at 508 kV rms	1000 micro-volts at 266 kV rms	2500 micro-volts at 508 kV rms	1000 micro-volts at 266 kV rms
8.	Minimum creepage distance for insulator string/ longrod insulators/ outdoor bushings	24800 mm (31mm/kV)	13020 mm (31mm/kV)	24800 mm (31mm/kV)	13020 mm (31mm/kV)
9.	Minimum creepage distance for switchyard equipment	24800 mm (31mm/kV)	13020 mm (31mm/kV)	24800 mm (31mm/kV)	13020 mm (31mm/kV)
10.	Max. fault current	50 kA	63 kA	50 kA	63 kA
11.	Duration of fault	1 sec	1 sec	1 sec	1 Sec

**B.1.2 Switching Scheme**

The switching schemes, as mentioned below, shall be adopted at various voltage levels of substation/switchyard:

Substation	765 kV side	400 kV side	220 kV side (Future)
<b>765/400 kV Gopalpur (GIS) s/s</b>	One and half breaker	One and half breaker	Double Main
<b>Extn. of 765 kV Angul S/s (AIS)</b>	One and half breaker	--	--

Notes: -

- (i) For one and half breaker switching scheme, any double circuit line consisting of two numbers feeders and originating from a transmission or generating switchyard shall not be terminated in one diameter.
- (ii) Transformers and bus reactors of same HV rating shall be placed in different diameters (i.e. transformers of same HV rating shall not be in the same diameter and similarly bus reactors of same HV rating shall also not be in the same diameter).
- (iii) GIS substation with the bus scheme as One and Half breaker scheme, the diameters (diameter is a set of 3 circuit breakers with associated isolators, earth switches, current transformers etc. for controlling of 2 numbers of feeders).
- (iv) In case of GIS substation where the bus scheme is One and Half breaker scheme, the diameters shall be complete with feeder/line side isolator to be used for any future line with switchable line reactor bay and GIS duct of the future bay shall be brought outside the GIS hall/building with extension/interface module suitably.
- (v) **Bay configuration at Gopalpur s/s :**  
 765 kV: TSP shall implement 3 nos. diameters with following bay configuration:
  - a. Line- Tie- ICT – 1 no.
  - b. Line- Tie- Bus Reactor- 1 no.
  - c. ICT- Tie- Bus Reactor- 1 no.
 400 kV: TSP shall implement 3 nos. diameters with following bay configuration:
  - a. Line- Tie- ICT – 1 no.
  - b. Line- Tie- Bus Reactor- 1 no.
  - c. ICT- Tie- Bus Reactor- 1 no.
- (vi) Connection arrangement of Switchable Line reactors shall be such that it can be used as Line reactor as well as Bus reactor with suitable NGR bypass arrangement.
- (vii) **Extn. of 765 kV Angul s/s:** Single Line Diagram is attached with the RfP. Associated Tie Bay shall also be under the present scope. TSP shall also keep space provision for an Auxiliary switching scheme for the installation of future Line



*Reactors.*

**B.2.0 Substation Equipment and facilities (Voltage level as applicable):**

The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All equipment shall be designed considering the following capacity.

Sl. No	Description of bay	765/400 kV Gopalpur (GIS) s/s		Extn. of 765 kV Angul S/s	Extn. of 400 kV Gopalpur GIS (OPTCL) S/s
		765 kV	400 kV	765 kV	400 kV
1.	Bus Bar	4000 A	4000 A	Quad bull	As per existing
2.	Line bay	3150 A	3150 A	3150 A	3150A
3.	ICT bay	3150 A	3150 A	3150 A	--
4.	Bus Reactor bay	3150 A	3150 A	--	--
5.	Switched Line Reactor Bay	3150 A	--	--	--

**B.2.1 Power Transformers**

**B.2.1.1 (765/√3)/ (400/√3)/33 kV Single Phase Autotransformer**

500 MVA (765/√3)/ (400/√3)/33 kV, 1-phase autotransformer (including arrangement for 3-phase bank formation of 1500 MVA) shall conform to CEA's "Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)" as amended up to date, available on CEA website.

Spare transformer (1-phase) unit shall be placed and connected in such a way that in case of fault in any unit of any of the transformer banks (including for future transformer banks) can be replaced by spare unit without physically moving it.

**B.2.2 Shunt Reactors**

**B.2.2.1 (765/√3) kV Single Phase Shunt Reactor 110 MVAR 765/√3 kV, 1-phase Reactor shall conform to CEA's "Standard Specifications and Technical Parameters for**



Transformers and Reactors (66 kV and above voltage class)” as amended up to date, available on CEA website.

Spare 1-phase unit of 110 MVAR,  $765/\sqrt{3}$  Shunt Reactor shall be placed and connected in such a way that the spare unit can be utilized for all the bus and switchable line reactor banks (including for future reactor banks) without its physical movement.

**Neutral Grounding Reactor and Surge Arrester for 765 kV Line Reactors (as applicable):**

The neutral of the line reactors (wherever provided) shall be grounded through adequately rated Neutral Grounding Reactors (NGR) to facilitate single phase auto-reclosure, provided that the NGR shall be provided with suitable bypass arrangement so that the line reactor can be used as Bus reactor as and when required. The neutral of bus reactor shall be solidly grounded.

NGR shall be oil filled or dry type air core for outdoor application. NGR shall conform to CEA’s “Standard Specifications and Technical Parameters of Transformers and Reactors (66 kV and above voltage class)” as amended up to date. Technical parameters of NGR shall be as specified in Annexure-A of the above mentioned document.

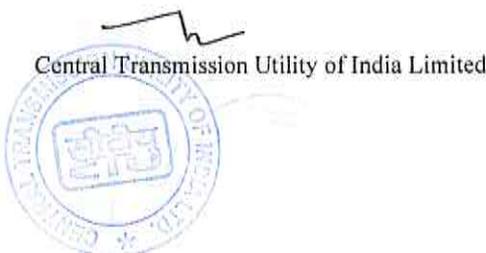
The surge arresters (rated voltage of arrester in co-ordination with ohmic value of NGR shall be decided by the TSP) shall be provided and physically located between the neutral of shunt reactor (brought out at 145 kV class bushing) and neutral grounding reactor. The surge arresters shall be of heavy duty station class gapless Metal oxide (ZnO) type conforming in general to IEC-60099-4. Arresters shall be hermetically sealed units, of self-supporting construction, suitable for mounting on structures.

Sl. No.	Line Name	NGR Value
1.	330 MVAR switchable line reactor on each circuit of Angul – Gopalpur 765 kV D/c line at Gopalpur end	500 Ohm

**B.2.2.2 420 kV, 3-Phase, Shunt Reactor**

125 MVAR, 420 KV, 3-Phase Reactor shall conform to CEA’s “Standard Specifications and Technical Parameters for Transformers and Reactors (66 kV and above voltage class)” as amended up to date, available on CEA website.

**B.2.3 765 kV and 400 kV GIS Substation equipment**



GIS (Gas Insulated Switchgear) shall be Indoor type in accordance to IEC: 62271-203. The switchgear shall be designed and specified to withstand operating conditions and duty requirements. All the switchgear such as Circuit Breaker, isolator, earth switch including CT, PT etc. shall be GIS type. The Surge Arrestor and Voltage Transformer shall be either GIS or outdoor AIS type.

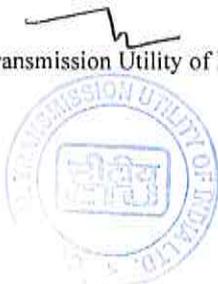
The GIS assembly shall consist of separate modular compartments e.g. Circuit Breaker compartment, Bus bar compartment filled with SF<sub>6</sub> Gas and separated by gas tight partitions so as to minimize risk to human life, allow ease of maintenance and limit the effects of gas leaks failures and internal arcs etc. These compartments shall be designed to minimize the risk of damage to adjacent sections and protection of personnel in the event of a failure occurring within the compartments. Rupture diaphragms with suitable deflectors shall be provided to prevent uncontrolled bursting pressures developing within the enclosures under worst operating conditions, thus providing controlled pressure relief in the affected compartment. The arrangement of gas sections or compartments shall be such as to facilitate future extension of any make without any drilling, cutting or welding on the existing equipment. To add equipment, it shall not be necessary to move or dislocate the existing switchgear bays. The layout of Gas Insulated Bus Ducts shall be properly planned to optimize the length of bus ducts and for easy accessibility for maintenance. The length of busbars, bus ducts, isolator sections shall be optimized considering effects of fast transient voltage due to isolator operations.

The bus bar modules including auxiliary bus modules (wherever applicable) shall be provided with a suitable End Piece (Interface) module with the test link facility for future extension on both sides as per provisions of future requirements. The end piece module shall be designed in such a way so that future GIS modules may be tested without extending test voltage to existing bus and vice-versa by removing the test link.

TSP shall make available the complete details for the design of interface module such as cross section, enclosure material, enclosure dimensions (inner and outer), Flange diameter (inner and outer), conductor cross-section and connection arrangement, bolt spacing and dimension, rated gas pressure, Gasket detail etc. Further, adequate space for GIS busbar interface module shall be taken into account for future scope.

Each section shall have plug-in or easily removable connection pieces to allow for easy replacement of any component with the minimum disturbance to the remainder of the equipment. Inspection windows (View Ports) shall be provided for Disconnecter Switches and both types of earth switches i.e. Maintenance and fast operating.

Local control cabinets (LCC) shall be provided as per requirement. The alarm and annunciation of GIS equipment shall be wired to the SCADA System.



The material and thickness of the enclosures shall be such as to withstand an internal flashover without burns through for a period of 300 ms at rated short time withstand current. The material shall be such that it has no effect of environment as well as from the by-products of SF<sub>6</sub> breakdown under arcing conditions. This shall be validated with Type Test.

**Service continuity requirement for GIS:**

The GIS equipment with the given bus switching arrangement shall be divided into different gas compartments. During the work such as a fault repair or major maintenance, requiring the dismantling of a gas compartment for which more than one compartments may need to be de-gassed.

TSP shall meet the following Service continuity conditions (to the extent possible) with ensuring equipment and operating personnel's safety:

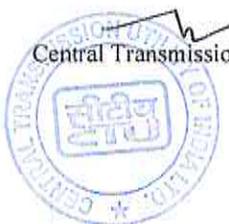
- For One and half breaker bus switching scheme, during a fault in Circuit Breaker compartment, no bus bar and feeder is permitted out of service during maintenance and repair/replacement.
- During a fault in a GIS compartment other than Circuit Breaker compartment, maximum of one bus bar and/or one feeder is permitted out of service during maintenance and repair/replacement.

**UHF sensors in GIS for PD (Partial Discharge) detection:**

The adequate number of Ultra High Frequency (UHF) sensors shall be provided in the offered GIS along with suitable portable type Partial Discharge (PD) measuring instrument for detection of Partial discharge (of 5 pC and above as per IEC 60270). The number and location of these sensors shall be based on laboratory test on the typical design of GIS as per recommendations of CIGRE Document No. 654 (Application Guide for sensitivity verification for UHF Partial discharge detection system for GIS).

**B.2.3.1 Circuit Breakers (GIS)**

GIS Circuit breakers shall in general be of C2-M2 class and comply with IEC-62271-100. The rated break time shall not exceed 40 ms (milli second) for 765 kV and 400 kV. Circuit breakers shall be provided with single phase and three phase auto reclosing. Each breaker shall have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The Circuit breakers controlling 765 kV lines shall be provided with pre-insertion closing resistor of about 450 ohms with 9 ms insertion time or Controlled Switching Device (CSD). The Circuit breakers controlling 400 kV lines wherever required shall be provided with pre-insertion closing resistor of about 400 ohms with 8 ms insertion time or Controlled Switching Device (CSD) for lines longer than 200 km. The short line fault capacity shall be same as the rated capacity



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and this is proposed to be achieved without use of opening resistors. Controlled switching device shall be provided in the Circuit Breaker of the switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformers of 400 kV and above voltage class.

#### B.2.3.2 Isolators (GIS)

The isolators shall comply to IEC 62271-102 in general. Earth switches shall be provided at various locations to facilitate maintenance. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. All isolators and earth switches shall be motor operated type.

The isolator shall be of extended mechanical endurance class-M2 and suitable for Bus Transfer Current Switching duty as per IEC standards. High speed earthing switches shall be provided for grounding purposes at overhead line terminations and cable terminations and shall have fault making capability as specified. Earth switch for line isolator shall be of earthing switch class E1 and shall be suitable for induced current switching duty as defined for Class-B as per relevant standard.

#### B.2.3.3 Current Transformers (GIS)

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) shall have five cores (four for protection and one for metering) whereas; CT in Tie bays shall have six cores (four for protections and two for metering) suitably distributed on both sides of CB (for 400 kV and above voltage class). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for the metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy.

The instrument security factor shall be less than 5 for CTs up to 400 kV voltage class and less than 10 for CTs of 765 kV voltage class.

#### B.2.3.4 Voltage Transformer (GIS)

The voltage transformers shall conform to IEC-61869. Voltage transformers shall be of electromagnetic type with SF<sub>6</sub> gas insulation. The earth end of the high voltage winding and the ends of the secondary winding shall be brought out in the terminal box. The voltage transformers shall be located as a separate bay module and will be connected phase to ground and shall be used for protection, metering and synchronization. The voltage transformers shall be of inductive type, nonresistant and shall be contained in their own-SF<sub>6</sub> compartment, separated from other parts of the installation. The voltage transformer shall be effectively shielded against high frequency electromagnetic



transients. The voltage transformer shall have three secondary windings out of which two shall be used for protection and one for metering. The voltage transformer should be thermally and dielectrically safe when the secondary terminals are loaded with the guaranteed thermal burdens. The accuracy class for protection cores shall be 3P. The accuracy of 0.2 on metering core should be maintained throughout the entire burden range on all the three windings without any adjustments during operation. The rated burden of cores shall be closer to the maximum burden requirement of the metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.

#### **B.2.3.5 Surge Arresters (GIS)**

624 kV and 336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 13 kJ/kV and 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 800 kV and 420 kV system respectively. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances near transformers and reactors so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

#### **B.2.3.6 SF<sub>6</sub> to Air Bushing**

Outdoor bushings, for the connection of conventional external conductors to the SF<sub>6</sub> metal enclosed switchgear, shall be provided. Bushings shall generally be in accordance with the requirements of IEC-60137. The creepage distance over the external surface of outdoor bushings shall not be less than 31 mm/kV. SF<sub>6</sub> to air Bushing shall be of Polymer / composite type and shall be robust and designed for adequate cantilever strength to meet the requirement of seismic conditions. The electrical and mechanical characteristics of bushings shall be in accordance with IEC-60137. Polymer/composite insulator shall be seamless sheath of silicon rubber compound. The housing and weather sheds should have silicon content of minimum 30% by weight. It should protect the bushing against environmental influences, external pollution and humidity. The hollow silicon composite insulators shall comply with the requirements of IEC 61462 and the relevant parts of IEC-62217.

#### **B.2.4 765 kV and 400 kV AIS Substation equipment (as applicable)**

##### **B.2.4.1 Circuit Breakers (AIS)**

The circuit breakers and accessories shall conform with IEC: 62271-100, IEC: 62271-1 and shall be of SF<sub>6</sub> Type. The circuit breakers shall be of class C2-M2 (as per IEC) with regard to restrike probability during capacitive current breaking and mechanical endurance. Each breaker would have two sets of trip circuits which would be connected to separate DC supplies for greater reliability. The rated break time shall not exceed 40



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ms for 765 kV circuit breakers. 765 kV Circuit breakers shall be provided with single phase and three phase auto reclosing. The Circuit breakers controlling 765 kV lines shall be provided either with pre-insertion closing resistor of about 450 ohms maximum with 9 ms minimum insertion time or with Controlled Switching Device. The short line fault capacity shall be same as the rated capacity and this is proposed to be achieved without use of opening resistors. Control switching device shall be provided in Circuit Breaker of switchable line reactor bay and in Main and Tie bay circuit breakers of line with non-switchable line reactors, Bus reactors and Transformers of 400 kV and above voltage class.

**B.2.4.2 Isolators (AIS)**

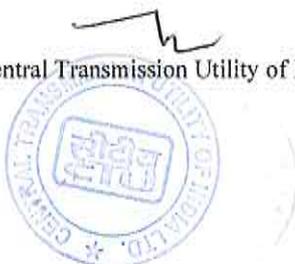
The isolators shall comply with IEC 62271-102 in general. 765 kV isolator design shall be double break or vertical break or knee-type. All Isolators and earth switches shall be motor operated. Earth switches shall be provided at various locations to facilitate maintenance. Isolator rated for 765 kV shall be of extended mechanical endurance class-M2 and suitable for bus transfer current switching duty as per IEC-62271-102. Main blades and earth blades shall be interlocked and interlock shall be fail safe type. 765 kV earth switch for line isolator shall be suitable for induced current switching duty as defined for Class-B.

**B.2.4.3 Current Transformers (AIS)**

Current Transformers shall comply with IEC 61869 in general. All ratios shall be obtained by secondary taps only. Generally, Current Transformers (CT) for 765 kV shall have six cores (four for protection and two for metering). The burden and knee point voltage shall be in accordance with the requirements of the system including possible feeds for telemetry. The accuracy class for protection core shall be PX and for metering core it shall be 0.2S. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 20 VA for metering core) for better sensitivity and accuracy. The instrument security factor shall be less than 10 for CTs of 765 kV voltage class.

**B.2.4.4 Capacitive Voltage Transformers (AIS)**

Capacitive Voltage transformers shall comply with IEC 61869 in general. These shall have three secondaries out of which two shall be used for protection and one for metering. Accuracy class for protection cores shall be 3P and for metering core it shall be 0.2. The Capacitive voltage transformers on lines shall be suitable for Carrier Coupling. The Capacitance of CVT for 765 kV shall be 8800 pF. The Capacitance of CVT for 400 kV shall be of 4400/8800 pF depending on PLCC requirements. The rated burden of cores shall be closer to the maximum burden requirement of metering and protection system (not more than 50 VA for metering core) for better sensitivity and accuracy.



**B.2.4.5 Surge Arresters (AIS)**

624 kV and 336 kV Station High (SH) duty gapless type Surge arresters with thermal energy (Wth) of minimum 13 kJ/kV and 12 kJ/kV conforming to IEC 60099-4 in general shall be provided for 800 kV and 420 kV system respectively. Other characteristics of Surge arrester shall be chosen in accordance with system requirements. Surge arresters shall be provided at line entrances near transformers and reactors so as to achieve proper insulation coordination. Surge Arresters shall be provided with porcelain/ polymer housing fitted with pressure relief devices. A leakage current monitor with surge counter shall be provided with each surge arrester.

**B.2.5 Protection Relaying and Control System**

The protective relaying system proposed to be provided for transmission lines, auto-transformers, reactors and bus bars to minimize the damage to the equipment in the events of faults and abnormal conditions, is dealt in this section. All main protective relays shall be numerical type with IEC 61850 communication interface and should have interoperability during integration of numerical relays to communicate over IEC 61850 protocol with RTU/SAS/IEDs of different OEMs. All numerical relays shall have built in disturbance recording feature.

The protection circuits and relays of transformer and reactor shall be electrically and physically segregated into two groups each being independent and capable of providing uninterrupted protection even in the event of one of the protection groups failing, to obtain redundancy, and to take protection systems out for maintenance while the equipment remains in service.

**a) Transmission Lines Protection**

765 kV and 400 kV lines shall have Main-I numerical three zone distance protection scheme with carrier aided inter-tripping feature. 765 kV and 400 kV lines shall also have Main-II numerical distance protection scheme like Main-I but from different make that of Main-I. The Main-I and Main-II protection relays of same make may be provided only if they are of different hardware and manufacturing platform or different principle of operation.

However, Line Current Differential relay (with back up distance protection feature) as Main-I and Main-II shall be considered at both ends for short lines (line length below 30 km) having Fibre Optic communication link. Differential relay at remote end shall be provided by the TSP. Associated power and control cabling and integration with SAS at remote end shall be provided by respective bay owner.

Further, all 765 kV and 400 kV lines shall be provided with single and three phase auto-reclosing facility to allow reclosing of circuit breakers in case of transient faults. These



lines shall also be provided with distance to fault locators to identify the location of fault on transmission lines.

All 765 kV and 400 kV lines shall also be provided with two stages over voltage protection. Over voltage protection and distance to fault locator may be provided as in-built feature of Main-I and Main-II protection relays. Auto reclose as built-in function of Bay Control Unit (BCU) is also acceptable.

The Main-I and Main-II protection relays shall be fed from separate DC sources and shall be mounted in separate panels.

For 765 kV and 400 kV transmission lines, directional IDMT earth fault relay should be provided as standalone unit or in-built feature of Main-I and Main -II feature.

**b) Auto Transformer Protection**

These shall have the following protections:

- i) Numerical Differential protection
- ii) Numerical Restricted earth fault protection
- iii) Numerical Back-up Over-current and earth fault protection on HV and IV side
- iv) Numerical Over fluxing protection on HV and IV side
- v) Numerical Overload alarm

Further, Numerical Back-up Over-current and earth fault protection on HV and IV side of autotransformer shall not be combined with other protective functions in the main relays and shall be independent relays. Besides these, power transformers shall also be provided with Buchholz relay, Magnetic oil Gauge (MOG) with low oil level alarm, protection against high oil and winding temperature and pressure relief device etc.

Suitable monitoring, control (operation of associated circuit breaker and isolator) and protection for LT auxiliary transformer connected to tertiary winding of auto-transformer for the purpose of auxiliary supply shall be provided. The Over current and other necessary protection shall be provided for the auxiliary transformer. These protection and control may be provided as built in feature either in the bay controller to be provided for the auxiliary system or in the control and protection IEDs to be provided for autotransformer.

**c) 765 kV and 400 kV Reactor Protection**

Reactor shall be provided with the following protections:

- i) Numerical Differential protection.



- ii) Numerical Restricted earth fault protection
- iii) Numerical Back-up impedance protection

Besides these, reactors shall also be provided with Buchholz relay, MOG with low oil level alarm, protection against oil and winding temperatures and pressure relief device, etc.

**d) Bus bar Protection**

The high speed low impedance type bus bar differential protection, which is essential to minimize the damage and maintain system stability at the time of bus bar faults, shall be provided for 765 kV and 400 kV buses. Duplicated bus bar protection is envisaged for 765 kV and 400 kV bus-bar protection. Bus bar protection scheme shall be such that it operates selectively for each bus and incorporate necessary features required for ensuring security.

The scheme shall have complete bus bar protection for present as well as envisaged future bays i.e. input / output modules for future bays for the bus sections under present scope and PUs shall be provided.

Bus Bar protection system for new substation shall be de-centralized (distributed) type.

In case, the bus section is provided, then each side of bus section shall have separate set of bus bar protection schemes.

For existing substations, the existing bus bar protection shall be augmented as per requirement.

**e) Local Breaker Back up Protection**

This shall be provided for each 765 kV and 400 kV circuit breakers and will be connected to de-energize the affected stuck breaker from both sides.

*Notes:*

1. *LBB and REF relays shall be provided separately from transformer differential relay.*
2. *LBB relay may also be provided as built-in protection function of distributed bus bar protection scheme; however, in such case separate LBB relay shall be provided for tie bays (in case of One and Half breaker scheme).*
3. *Over fluxing and overload protection can be provided as built-in feature of differential relay.*
4. *In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, Tie CB relay panel shall be with Auto-reclosure feature.*



**B.2.6 Substation Automation System**

- a) For all the new substations, state of art Substation Automation System (SAS) conforming to IEC-61850 shall be provided. The distributed architecture shall be used for Substation Automation system, where the controls shall be provided through Bay control units. The Bay control unit is to be provided bay wise for voltage level 400 kV and above. All bay control units as well as protection units are normally connected through an Optical fibre high speed network. The control and monitoring of circuit breaker, dis-connector, re-setting of relays etc. can be done from Human Machine Interface (HMI) from the Control Room.

The functions of control, annunciation, disturbance recording, event logging and measurement of electrical parameters shall be integrated in Substation Automation System.

At new substations, the Substation Automation System (SAS) shall be suitable for operation and monitoring of the complete substation including proposed future bays/elements.

In existing substations with Substation automation system (SAS), augmentation of existing SAS shall be done for bays under present scope.

In existing Substations where Substation automation is not provided, control functions shall be done through control panels.

Necessary gateway and modems (as required) shall be provided to send data to RLDC/SLDC as per their requirement and shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation. Accordingly, all the hardware for communication services of station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs. Any augmentation work at RLDC/SLDC is excluded from TSP's scope. However, all the configuration work at substation end required to send data to RLDC/SLDC shall be in the scope of TSP.

- b) **Time synchronisation equipment**

Time synchronization equipment complete in all respect including antenna, cable, processing equipment required to receive time signal through GPS or from National Physical Laboratory (NPL) through INSAT shall be provided at new substations. This equipment shall be used to synchronize SAS and IEDs etc.

**B.3.0 Substation Support facilities**

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Certain facilities required for operation and maintenance of substations as described below shall be provided at new substation. In existing substation, these facilities have already been provided and would be extended/ augmented as per requirement.

### B.3.1 AC and DC power supplies

For catering the requirements of three phase and single-phase AC supply and DC supply for various substation equipment, the following arrangement is envisaged: -

- (i) For LT Supply at each new Substation, two (2) nos. of LT Transformers (minimum 800 kVA for substations with highest voltage rating as 765 kV) shall be from two independent sources as per the CEA (Technical Standards for Connectivity to the Grid) Regulations, 2007.

Metering arrangement with Special Energy Meters (SEMs) shall be provided by TSP at 33 kV tertiary of 765/400 kV Transformer for drawing auxiliary supply at new substation. Such SEMs shall be provided by CTU at the cost of the TSP. Accounting of such energy drawn by the TSP shall be done by RLDC/RPC as part of Regional Energy Accounting.

Additionally, Active Energy Meters may be provided at the same point in the 33 kV tertiary of 765/400/33 kV Transformer by local SEB/DISCOM for energy accounting.

- (ii) 2 sets of 220 V battery banks for control and protection and 2 sets of 48 V battery banks for PLCC/ communication equipment shall be provided at each new Substation. Each battery bank shall have a float-cum-boost charger.

At new substation, sizing of 220 V battery and battery charger shall be done based on the number of bays specified (including future bays) as per CEA Regulations and relevant IS. 2 sets of 48 V battery banks for PLCC and communication equipment for present and future scope shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required. 48 V DC can be achieved from 220 V DC battery bank using adapter, if so desired by TSP, without compromising backup time.

- (iii) Suitable AC and DC distribution boards and associated LT Switchgear shall be provided at new substation.
- (iv) For new substation, following switch boards shall be considered with duplicate supply with bus coupler/ sectionalizer and duplicate outgoing feeders except for Emergency lighting distribution board which shall have only one incoming feeder:



- (a) 415 V Main Switch board – 1 no.
- (b) AC distribution board – 1 no.
- (c) Main lighting distribution board – 1 no.
- (d) Emergency lighting distribution board – 1 no.
- (e) 220 Volt DC distribution board – 2 nos.
- (f) 48 Volt DC distribution board – 2 nos.

Sizing of LT Switchgear shall be suitable to cater the requirement for all present and future bays. AC and DC distribution boards shall have modules for all the feeders (including future as specified).

- (v) At new Substation, one no. of DG set (minimum 500 kVA for substations with highest voltage rating as 765 kV) shall be provided for emergency applications.
- (vi) At new substation, sizing of battery and battery charger shall be done based on the number of bays specified (including future bays).

### B.3.2 Fire Fighting System

Fire-fighting system for substation including Transformer and Reactor shall conform to CEA (Measures Relating to Safety and Electric Supply) Regulations, 2023 as amended from time to time.

Further, adequate water hydrants and portable fire extinguishers shall be provided in the substations. The main header of firefighting system shall be suitable for extension to bays covered under the future scope; necessary piping interface in this regard shall be provided.

Optical Beam type heat detection for GIS hall fire protection system shall be provided for all the GIS halls.

At existing substations, the fire-fighting systems as available shall be extended to meet the additional requirements.

### B.3.3 Oil evacuating, filtering, testing and filling apparatus

To monitor the quality of oil for satisfactory performance of transformers, shunt reactors and for periodical maintenance necessary oil evacuating, filtering, testing and filling apparatus would be provided at new substations. Oil storage tanks of adequate capacities for storage of transformer oil would be provided.

Online Transformer Oil Drying Out System shall be provided in line with the provisions of Standard Specification and Technical Parameters for Transformers and Reactors (66 kV and above Voltage Class) as amended up to date available on CEA website.

**B.3.4 Illumination**

Normal and emergency AC and DC illumination shall be provided adequately in the control room and other buildings of the substation. The switchyard shall also be provided with adequate illumination.

Lighting of the entire control room building, fire-fighting pump house, other building (if any) and switchyard shall be done by LED based low power consumption luminaries.

**B.3.5 Control Room**

For new substation, substation control room shall be provided to house substation work stations for station level control (SAS) along with its peripheral and recording equipment, AC and DC distribution boards, DC batteries and associated battery chargers, Fire Protection panels, Telecommunication panels and other panels as per requirements. Air conditioning shall be provided in the building as functional requirements. Main cable trenches from the control room shall have adequate space provision for laying of cables from control room for all the future bays also.

At existing substations, the adequacy of size of control room shall be ascertained and the same shall be augmented as per requirement.

**B.3.6 GIS hall**

The Gas Insulated Switchgear (GIS) of each voltage level along with other associated equipment shall be housed inside the GIS building. Independent single storeyed GIS building shall be provided for each voltage class. The panels i.e. Bay level units, bay mimic, relay and protection panels, RTCC panels, PLCC panels, panels for telecommunication system etc. are to be placed in a separate room in the GIS building. The size of the room shall be such that all the panels for the bays under present scope shall be accommodated. The panel room shall be air-conditioned. Further, the temperature of the room shall be monitored through substation automation system by providing necessary temperature transducers. Ventilation system of suitable capacity shall be provided for each GIS hall.

One EOT Crane of suitable capacity for erection and Maintenance of largest GIS component/assembly and all plant installed in the GIS switchgear room shall be provided in each GIS hall. The crane shall be capable of fulfilling all special



requirements for erection and maintenance of GIS equipment. The capacity of the crane shall be sized to lift the heaviest GIS switchgear component.

Further, both the 765kV & 400kV GIS building shall be suitable for expansion such that future adjacent GIS bays can be installed from either side of GIS building as per layout requirement.

**B.3.7 Control Concept**

All the EHV circuit breakers in substation/switching stations shall be controlled and synchronized from the switchyard control room/remote control center. All the isolators shall have control from remote/local whereas the earth switches shall have local control only.

**B.3.8 Visual monitoring system (VMS) for watch and ward of substation premises:**

Visual monitoring system for effective watch and ward of substation premises shall cover all the transformers and reactors, all other major AIS Equipment (such as CB, isolators, CT, CVT, SA etc. as applicable), GIS bays, panel room, all the gates of switchyard and all entry and exit points of control room building and accordingly the location of cameras shall be decided. In addition to the gates of the switchyard, the cameras shall also be located around the boundaries at suitable locations. The camera shall be high definition color CCD camera with night vision feature. The VMS data partly/completely shall be recorded (minimum for 15 days) at least @25fps (or better) and stored on network video recorder. The system shall use video signals from various cameras installed at different locations, process them for viewing on workstations/monitors in the control room and simultaneously record all the cameras. The VMS data should go only to the intended personnel/facility and not to the remote server of the Camera (VMS supplier).

Mouse/keyboard controllers shall be used for pan, tilt, zoom and other functions of the desired camera. The Visual Monitoring System shall have provision of WAN connectivity for remote monitoring.

All camera recordings shall have Camera ID and location/area of recording as well as date/time stamp. The equipment should generally conform to Electromagnetic compatibility requirement for outdoor equipment in EHV substation.

At existing substations, the visual monitoring system if available shall be augmented as per existing or better specification as required.

**B.4 General Facilities**

- a) Line Gantry/Towers are envisaged for bays under present scope only. However, for adjacent future line bay, tower shall be designed for extension (considering Quad conductors for 765 kV and 400 kV future lines) wherever applicable.



- b) Bay extension works at existing substation shall be executed by TSP in accordance with the requirement/provisions mentioned above. However, interface points shall be considered keeping in view the existing design/arrangement at the substation.
- c) TSP has to arrange for construction power and water on its own.
- d) All outdoor steel structures including anchor/foundation bolts shall be fully galvanized. The weight of the zinc coating shall be at least 610 g/m<sup>2</sup> and 900 g/m<sup>2</sup> for coastal/ creek regions.
- e) In 765 kV and 400 kV switchyard, if spare bay of half diameter is identified as future, all the equipment for Tie and Future bay shall be designed considering the current rating of line bay i.e. 3150 A.
- f) Boundary wall shall be brick masonry wall with RCC frame or Stone masonry wall or Precast RCC wall under present scope along the property line of complete substation area including future switchyard area to prevent encroachment and unauthorized access. Minimum height of the boundary wall shall be of 1.8 m from finished ground level (FGL).

All electrical equipment shall be installed above the Highest Flood Level and where such equipment is not possible to be installed above the Highest Flood Level, it shall be ensured that there is no seepage or leakage or logging of water.

**B.5 EXTENSION OF EXISTING SUBSTATION**

The following drawings/details of existing substation is attached with the RFP documents for further engineering by the bidder.

Sl. No.	Drawing Title	Drawing No./Details	Rev. No.
<b>A.</b>	<b>765 kV Angul s/s</b>		
1.0	Single Line Diagram	C/ENGG/ER/ANGUL/ ERESXXXIX /SLD/01	00
2.0	General Arrangement	C/ENGG/ER/ANGUL/ERESXXXIX/GA/01	00
3.0	Visual Monitoring System	Make: Nice Vision Camera Model: Sony	--
4.0	Bus Bar Protection	Make: Siemens Model: 7SS522	--
5.0	Substation Automation System (SAS)	Make: Siemens, Model: SICAM	--



		PAS	
<b>B.</b>	<b>400 kV Gopalpur (OPTCL) s/s</b>		
1.0	Single Line Diagram	<b>Yet to be finalized by OPTCL. The same may be availed from OPTCL on finalization.</b>	
2.0	General Arrangement		
3.0	Visual Monitoring System		
4.0	Bus Bar Protection		
5.0	Substation Automation System (SAS)		

Bidders are also advised to visit the substation sites and acquaint themselves with the topography, infrastructure such as requirement of roads, cable trench, drainage etc. and also the design philosophy.

**SPECIFIC TECHNICAL REQUIREMENTS FOR COMMUNICATION**

The communication requirement shall be in accordance to CEA (Technical Standards for Communication System in Power System Operations) Regulations, 2020, CERC (Communication System for inter-State transmission of electricity) Regulations, 2017, and CEA (Cyber Security in Power Sector) Guidelines, 2021, all above documents as amended from time to time.

The complete ISTS communication system commissioned by TSP under the RFP shall be the asset of ISTS and shall be available for usage of ISTS requirements as suggested by CTU from time to time.

The communication services viz. SCADA, VoIP, PMU, AGC and AMR (wherever applicable) have been identified as critical services and therefore shall be provisioned with 2+2 redundancy i.e. 2 channels for Main Control Centre and 2 channels for Backup Control Centre. In order to meet this requirement, suitable redundancy at port and card level need to be ensured by the TSP to avoid any single point of failure which may lead to interruption in real-time grid operation.

PMU to PDC communication (wherever required) shall be through 2 channels to the PDC (main) as there is no backup PDC at present.

Accordingly, all the hardware for communication services of the station as stated above shall support dual redundancy for data transmission of station to respective main and backup RLDCs.

The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction.

In order to meet the requirement for grid management and operation of substations, Transmission Service Provider (TSP) shall provide following requirements:

**C.1.0 Establishment of Gopalpur 765/400 kV,2x1500 MVA GIS substation.**

- (i) TSP shall supply, install and commission 1 no. FODP (96 F) along with panel and approach Cables (24F) with all associated hardware fittings from gantry tower to Control Room for all the incoming lines envisaged under the present scope.
- (ii) TSP shall supply, install and commission One or more STM-16 (FOTE) equipment along with panel/s supporting minimum four directions with MSP (Multiplex Section Protection – 1+1). These directions shall exclude protected (1+1) local patching among equipment (if any) at Gopalpur 765 kV S/s. Communication Equipment shall be provided with necessary interfaces to meet the voice and data communication requirement among Gopalpur 765 kV, Gopalpur(OPTCL) and Angul(POWERGRID) S/s. TSP to also provide suitable optical interfaces/equipment at Angul and

Gopalpur(OPTCL) Substations FOTE to meet link budget requirement for connectivity with Gopalpur 765 kV Station if required. The suitable DC Power Supply and backup to be provided for communication equipment.

- (iii) FODP and FOTE equipment with panels shall be provided in Control Room of Gopalpur 765 kV S/s. FOTE and FODP can be accommodated in same panel to optimize space.
- (iv) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.
- (v) TSP shall supply, install and commission Firewall in redundant mode (1+1) in line with the specification attached at **Annexure F.1**.

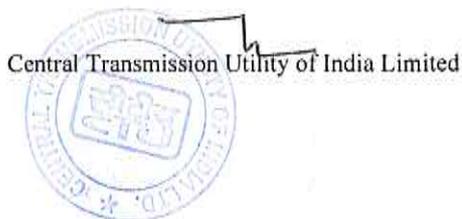
The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMUs, DCPS along with Battery Bank and Firewall shall be the responsibility of TSP.

*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements..*

#### **C.2.0 (Angul (POWERGRID) – Gopalpur 765 kV D/c line**

On Angul (POWERGRID) – Gopalpur 765 kV D/c line(205 km), TSP shall supply, install and commission One (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak and conventional earthwire on other E/W peak.

The TSP shall install this OPGW from gantry of Angul (POWERGRID) up to the gantry of Gopalpur 765 kV S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations. The transmission line length is 205 kms which can be managed as a repeater less link, however after survey line length may exceed from 205 kms. To meet link budget requirement of Angul (POWERGRID) – Gopalpur 765 kV link (including service loops and sag etc.) repeater may be required to be provided by TSP.



TSP shall finalize the location of repeater station depending upon the actual site conditions. Further TSP shall comply to the requirements mentioned as per Appendix-F.1.

Maintenance of OPGW Cable, repeater if any and OPGW Hardware shall be the responsibility of TSP.

Maintenance of OPGW Cable, OPGW Hardware and repeater equipment and items associated with repeater shelter shall be responsibility of TSP.

**C.3.0 Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS:- 2 nos. of 765 kV GIS/Hybrid line bays (along with space for future switchable line reactor)**

- (I) TSP shall supply, install and commission 1 no. FODP (72 F or higher) along with panel and required approach Cables (24F) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.
  
- (II) TSP shall supply, install and commission One STM-16 (FOTE) equipment along with panel/s supporting minimum three (3) directions with MSP (Multiplex Section Protection (1+1)) with necessary interfaces to meet the voice and data communication requirement between Angul (POWERGRID), Gopalpur 765 kV S/s. The suitable DC Power Supply and backup to be provided for communication equipment.
  
- (III) FOTE/FODP panel shall be installed in any new Bay Kiosk of Angul (POWERGRID). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of Angul (POWERGRID) which is communicating / to be communicated with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, the TSP may integrate the FOTE under the present scope with FOTE in the nearby Kiosk connected to the control room (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

- (IV) FOTE and FODP can be accommodated in same panel to optimize space.



- (V) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.
- (VI) The maintenance of all the communication equipment and software thereof including FOTE, FODP, approach cable, PMU,DCPS along with Battery Bank shall be the responsibility of TSP.

*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.*

#### C.4.0 Gopalpur-Gopalpur (OPTCL) 400 kV D/c(quad) line

On Gopalpur-Gopalpur (OPTCL) 400 kV D/c(quad) line (20 km approx), TSP shall supply, install and commission One (1) no. OPGW cable containing 24 Fibres (24F) on one E/W peak.

The TSP shall install this OPGW from gantry of Gopalpur 765/400 kV S/s up to the gantry of Gopalpur(OPTCL) S/s with all associated hardware including Vibration Dampers, mid-way and gantry Joint Boxes (called OPGW Hardware hereafter) and finally terminate in Joint Boxes at end Substations.

Maintenance of OPGW Cable and OPGW Hardware shall be responsibility of TSP.

#### C.5.0 Extension at 400 kV level at Gopalpur (OPTCL)GIS S/s:- 400 kV GIS line bays:2 Nos. [for termination of Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line]+2 nos. for diameter completion

- (i) TSP shall supply, install and commission 1 no. FODP (72 F or higher) along with panel and required approach Cables (24f) with all associated hardware fittings from gantry tower to Bay Kiosk and from the Bay Kiosk to Control room.
- (ii) TSP shall supply, install and commission One STM-16 (FOTE) equipment along with panel/s supporting minimum three (3) directions with MSP (Multiplex Section Protection (1+1) with necessary interfaces to meet the voice and data communication requirement between Gopalpur (OPTCL), Gopalpur 765 kV S/s. The suitable DC Power Supply and backup to be provided for communication equipment.
- (iii) FOTE/FODP panel shall be installed in any new Bay Kiosk of Gopalpur (OPTCL). The FOTE under present scope shall be integrated by TSP with the existing FOTE at control room of Gopalpur (OPTCL) which is communicating / to be communicated with respective control center. TSP to provide necessary FODP sub rack / Splice trays/ Patch



cords etc. and optical interfaces/equipment in the existing FOTE/FODP panels in control room for integration with the existing FOTE for onwards data transmission.

In case spare optical direction is not available in the existing FOTE at the control room, the TSP shall coordinate with station owner to reconfigure the directions in existing FOTE at control room. Alternatively, the TSP may integrate the FOTE under the present scope with FOTE in the nearby Kiosk connected to the control room (if available with spare direction). For this purpose, TSP shall provide necessary FODP sub rack / Splice trays/ Patch cords etc. and suitable optical interfaces/ equipment in the existing FOTE/FODP panels in another Kiosk (SPR).

- (iv) FOTE and FODP can be accommodated in same panel to optimize space.
- (v) The new communication equipment under the present scope shall be compatible for integration with existing regional level centralized NMS. The local configuration of the new communication equipment shall be the responsibility of TSP. The configuration work in the existing centralized NMS for integration of new Communication equipment shall be done by Regional ULDC Team, however all the necessary support in this regard shall be ensured by TSP.
- (vi) The maintenance of all the communication equipment and software thereof including FOTE, PMU, FODP, approach cable, DCPS along with Battery Bank shall be the responsibility of TSP.

#### C.6.0 Specific Requirement for Phasor Measurement Units (PMUs)

TSP shall supply, install and commission required no. of Phasor Measurement Units (PMUs) PMUs at all the locations under the scope of TSP under this RFP as per CEA (Technical Standards for Construction of Electrical Plants and Electric Lines) Regulations, 2022 (along with all amendments if any), and all the applicable Regulations, Standards, Guidelines issued time to time. These PMUs shall be provided with GPS clock and LAN switch and shall connect with LAN switch of control room of respective substations/ generating stations with Fibre Optic cable. These PMUs shall be connected with the FOTE at Substation/ generating stations for onwards data transmission to the PDC (Phasor Data Concentrator) located at respective RLDC. Configuration work in existing PDC at RLDC for new PMU integration shall be done by respective RLDC, however all the necessary support in this regard shall be ensured by TSP. The maintenance of all the PMUs and associated equipment shall be the responsibility of TSP.

*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g.*



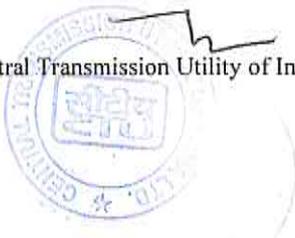
*Communication (through FOTE), Voice etc. for smooth operation and monitoring of new added grid elements.*

**C.7.0 PLCC and PABX:**

Power line carrier communication (PLCC) equipment complete for speech, tele-protection commands and data channels shall be provided on each transmission line. The protections for transmission line and the line compensating equipment shall have hundred percent back up communication channels i.e. two channels for tele- protection in addition to one channel for speech plus data for each direction. The PLCC equipment shall in brief include the following: -

- Coupling device, line traps, carrier terminals, protection couplers, HF cables, PABX (if applicable) and maintenance and testing instruments.
- At new substation, a telephone exchange (PABX) of 24 lines shall be provided at as means of effective communication among various buildings of the substation, remote end substations and with control centres (RLDC/SLDC) etc.
- Coupling devices shall be suitable for phase to phase coupling for 765 kV and 400 kV Transmission lines. The pass band of coupling devices shall have sufficient margin for adding communication channel in future if required. Necessary protection devices for safety of personnel and low voltage part against power frequency voltages and transient over voltage shall also be provided.
- The line traps shall be broad band tuned suitable for blocking the complete range of carrier frequencies. Line Trap shall have necessary protective devices such as lightning arresters for the protection of tuning device. Decoupling network consisting of line traps and coupling capacitors may also be required at certain substation in case of extreme frequency congestion.
- The carrier terminals shall be of single side-band (SSB) amplitude modulation (AM) type and shall have 4 kHz band width. PLCC Carrier terminals and Protection couplers shall be considered for both ends of the line.
- PLCC equipment for all the transmission lines covered under the scheme (consisting of one set of analog PLCC channel along with circuit protection coupler and one set of Digital protection coupler for both ends) shall be provided by TSP. CVT and Wave trap for all the line bays under present scope shall be provided by TSP.

Sl. No	Line Section	PLCC configuration
1.	Angul (POWERGRID) – Gopalpur 765 kV D/c line	1 set Analog PLCC + 1 set Digital Protection Coupler for each circuit at both ends.
2.	Gopalpur – Gopalpur	1 set Analog PLCC + 1 set Digital



	(OPTCL) 400 kV D/c line	Protection Coupler for each circuit at both ends.
--	-------------------------	---

- All other associated equipment like cabling, coupling device and HF cable shall also be provided by the TSP.
- 2 sets of 48 V battery banks for PLCC and communication equipment shall be provided at each new Substation with at least 10-hour battery backup and extended backup, if required.

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Appendix-F.1

**Repeater Requirements**

- If the repeater location is finalized in the Control Room of a nearby substation, TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the repeater equipment in substation control room.

TSP shall co-ordinate for Space and DC power supply sharing for repeater equipment.

TSP shall provide FODP, FOTE (with STM-16/suitable capacity) with suitable interfaces require for link budget of respective link.

OR

- If the repeater location is finalized in the nearby substation premises, the TSP shall identify the Space for repeater shelter in consultation with station owner. Further TSP shall provide 1 no. OPGW (48F) on a single Earthwire peak with OPGW Hardware and mid-way Joint Boxes etc. of the line crossing the main line and 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings, to establish connectivity between crossing point of main transmission line up to the substation where the repeater shelter is to be housed.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16/suitable capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems.

OR

- If the repeater location is finalized on land near the transmission tower. TSP shall make the provisions for Land at nearby tower for repeater shelter. Further TSP shall provide 1 no. Approach Cable (48F) / UGFO (48F) with all associated hardware fittings to establish connectivity up to the location of repeater shelter.

TSP shall provide repeater shelter along with FODP, FOTE (with STM-16/suitable capacity) with suitable interfaces require for link budget of respective link, reliable power supply provisioning for AC and DC supply, battery bank, Air Conditioner and other associated systems

Maintenance of OPGW Cable and OPGW Hardware, repeater equipment and items associated with repeater shelter shall be responsibility of TSP.



*Note: Existing Station owner/s to provide necessary support to integrate different equipment and applications of new extended bays with the existing substation e.g. Communication (through FOTE), PMUs, Voice etc. for smooth operation and monitoring of new added grid elements.*

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**Annexure-F.1**

**Next Generation Firewall (NGFW)**

TSP shall provide 2 nos. Next Generation Firewalls (NGFW); one no. Main and one no. Standby mode having electrical ethernet interfaces/ports and placed between FOTE and SAS gateway/s at the substation. All ethernet based applications shall be terminated in the firewall ports directly (e.g. PMU, AMR, VOIP, SAS/SCADA etc.). Each port of firewall shall work as a separate zone. Firewall shall be hardware based with features of Block/Allow/drop and IPSec VPN (network encryption).

Minimum 16 nos. of ports/interfaces in each firewall (i.e. Main and Standby). TSP can use either single firewall or multiple firewalls to meet this interfaces requirement, each for main as well as standby firewall. Minimum throughput of firewall shall be 300 Mbps.

The Firewall shall be managed/ configured as standalone at present and shall also have compatibility to manage/configure through Centralized Management Console (CMC) remotely in future.

Firewall shall be tested and certified for ISO15408 Common Criteria for least EAL4+. Further, the OEM must certify that it conforms to Secure Product Development Life Cycle requirements as per IEC62443-4-1. The firewall shall generate reports for NERC-CIP Compliance.

The specifications for the firewalls are given at **Annexure-F.2** and schematic diagram showing firewall placement given at **Figure F.2**.



**Annexure F.2**

**Specifications of Next Generation Firewall (NGFW)**

1. NGFW shall have following features including but not limited to:  
Encryption through IPsec VPN (Virtual Private Network), Deep Packet Inspection (DPI), Denial of service (DoS) and Distributed Denial of Service (DDoS) prevention, Port Block/ Allow, rules/ policies for block/allow, IP (Internet Protocol) and Media Access Control (MAC) spoofing protection, threat detection, Intrusion Prevention System (IPS), Anti-Virus, Anti-Spyware, Man In The Middle (MITM) attack prevention.
2. The proposed firewall shall be able to handle (alert, block or allow) unknown /unidentified applications e.g. unknown TCP and UDP packets. It shall have the provision to define application control list based on application group and/or list.
3. Firewall shall have feature and also have capability to update the definition/ Signatures of Anti-Virus online as well as offline. Firewall shall also be compatible to update the definitions/signatures through CMC. There shall be a defined process for security patching and firmware up-gradation. There shall be a feature to field validate firmware checksum. The same shall also be validated before using the OEM provided file/binary in the process of firmware up-gradation and security patching
4. Firewall shall have Management Console port to configure remotely.
5. Firewall shall be EMI/EMC compliant in Substation environment as per IEC 61850-3.
6. Firewall shall be rack mounted in existing standard equipment cabinets.
7. Firewall shall have support of SCADA applications (IEC-60870-5-104), IEC, PMU (IEEE C37.118), Sub-Station Automation System (IEC 61850), Ethernet and other substation environment protocols.
8. Client based Encryption/ VPN must support different Operating System platforms e.g. Windows, Linux and Mac.
9. The solution must have content and comprehensive file detection policies, blocking the files as function of their types, protocols and directions.
10. Firewall shall have logging facility as per standard logs/events format. Firewall shall have features to export the generated/stored logs/events in csv (Comma Separated Value) and also any other standard formats for offline usage, analysis and compliance.



Firewall shall have suitable memory architecture and solution to store and be enable to export all logs/events for a period of last 90 days at any given time.

11. Firewall shall have features and be compatible with local as well as central authentication system (RADIUS, LDAP, or TACACS+) for user account and access right management. It shall also have Role Based User management feature.
12. Firewall shall have the capability to configure sufficient number of VLANs.
13. Firewall shall have the capability to support sufficient number of sessions.
14. Firewall shall have provision to configure multiple IP Sec VPNs, at least 100 nos., (one-to-many or many-to-one). Shall support redundant operation with a similar router after creation of all the IP Sec VPN. IPsec VPN shall support encryption protocols as AES128, AES256 and hashing algorithms as MD5 and SHA1. IPsec VPN throughput shall support at least 300 Mbps
15. Firewall shall be capable of SNMP v3 for monitoring from Network Management system. It shall also have SNMPv3 encrypted authentication and access security
16. Firewall shall support in Active/Passive or Active-Active mode with High Availability features like load balancing, failover for firewall and IPsec VPN without losing the session connectivity.
17. Firewall should have integrated traffic shaping (bandwidth, allocation, prioritisation, etc.) functionality
18. Shall support simultaneous operation with both IPv4 and IPv6 traffic
19. Firewall shall be compatible with SNTP/NTP or any other standards for clock synchronization
20. Firewall shall have the features of port as well as MAC based security
21. Firewall shall support exporting of logs to a centralized log management system (e.g. syslog) for security event and information management.
22. Firewall time shall be kept synchronised to official Indian Timekeeping agency, time.nplindia.org.
23. Firewall product shall be provided with all applicable updates at least until 36 months since the applicable date of product shipping to the concerned utility.

Firewall Placement Diagram

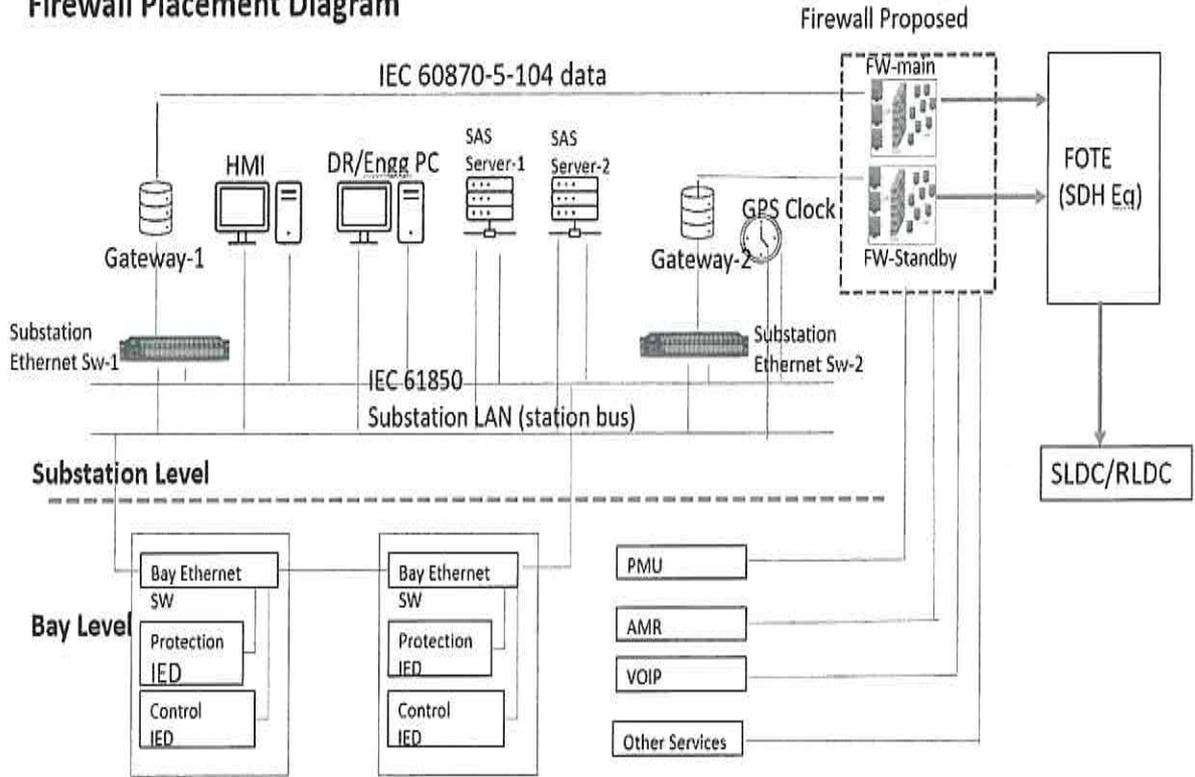
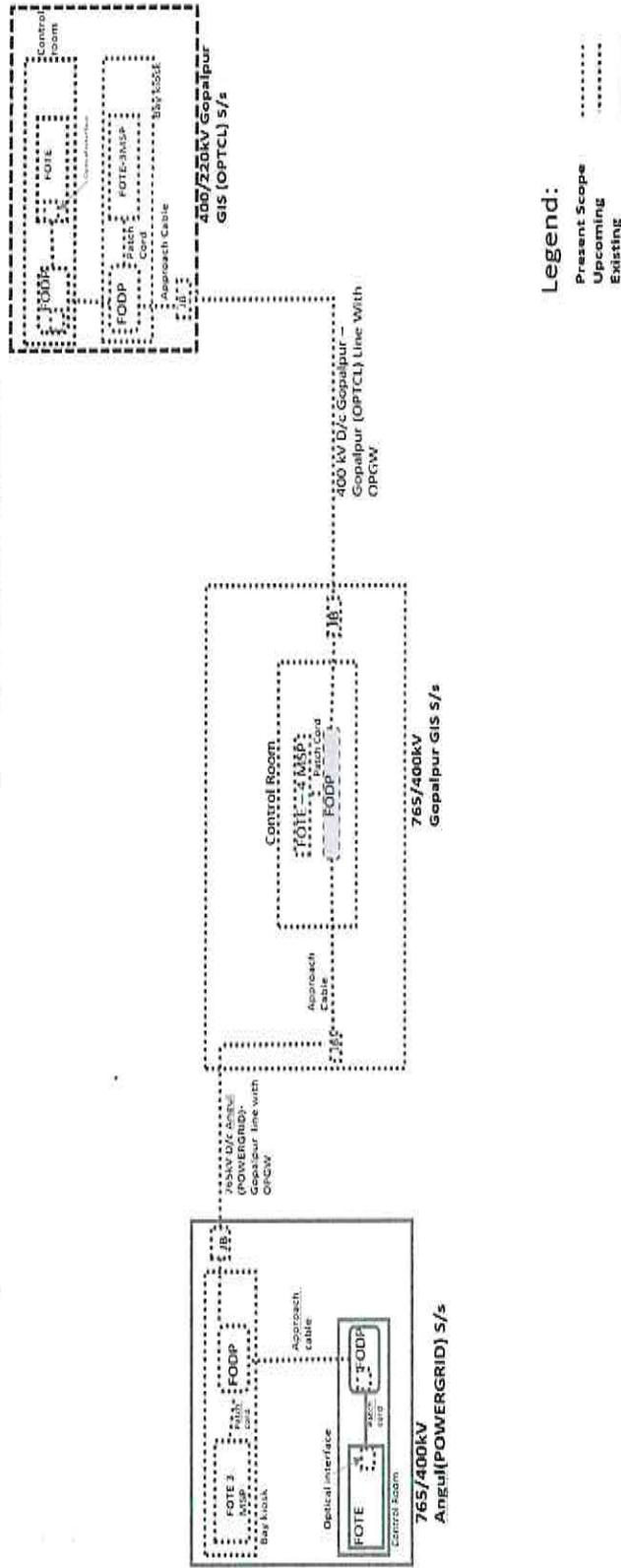


Figure F.2

Figure F.1

Proposed Communication for Eastern Region Expansion Scheme XXXIX



**Annexure-F****Frequently Asked Queries:****1.0 Transmission Line:**

1.1 Please clarify that whether shutdowns for crossing of existing transmission lines of POWERGRID/STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP on chargeable basis or free of cost.

**Reply:** Shutdowns for crossing of existing transmission lines of POWERGRID/ STUs/ Power Evacuation Lines from Generation Plants/ Any other Transmission Licensee will be given to TSP by the concerned owner of the lines as per their own terms and conditions. As far as shutdown of ISTS lines are concerned the same can be availed by approaching respective Regional Power Committee.

1.2 We understand that the suggested swing angle criteria are applicable for Suspension Insulator in Suspension Tower. Further, you are requested to provide similar swing angle and clearance criteria for Pilot Insulator with Jumper and Jumper.

**Reply:** It is clarified that the swing angle criteria (as mentioned in RFP) for transmission lines is applicable for Suspension Insulator in Suspension Tower. Further, as per Clause 3.0 of Specific Technical Requirements for transmission lines, Transmission service Provider (TSP) shall adopt any additional loading/design criteria for ensuring reliability of the line, if so desired and /or deemed necessary.

1.3 We request you to kindly allow that use of diamond configuration at Power line crossings and the existing owner of the lines may be directed to allow the same for the successful bidders.

**Reply:** Power line crossing including Diamond configuration is responsibility of the TSP. TSP shall formally submit the profile of the crossing section to the owner of the existing line suggesting proposed crossing alternatives. The crossing will have to be carried out as per approval of owner of the existing line.

1.4 It is requested you to kindly provide present status of Forest Clearances if any transmission line corridor area falling in wildlife forest / reserve forest/ mangroves.

**Reply:** Based on the preliminary route survey, the process of initiation of forest clearance for the forest stretches, if any, enroute the proposed line alignment will be initiated by way of writing letters to the concerned authority (ies). However, it may be noted that it will be the responsibility of TSP for obtaining forest clearance for the forest stretches as provided in the survey report and also for any forest area encountered during detailed survey.

**2.0 Substation**

2.1 We understand that space for storage of O&M spare shall be provided by existing owner within the station boundary without any cost. Kindly confirm.



**Reply:** Space for storage of O&M spares shall be arranged by TSP on its own.

2.2 We presume that the O&M for the end Termination bays will be in the scope of the TSP and TSP shall not be liable for any payment towards O&M to the existing owner of the substation. Kindly confirm.

**Reply:** Operation and maintenance of the bays is solely responsibility of the TSP. TSP shall follow CEA's "Operation and Maintenance (O&M) guidelines and Standard Format for Memorandum of Understanding between New TSP and Existing TSP" issued by CEA vide its letter No. I/28514/2023 dated 22.06.2023. Copy of the guideline is available on CEA website at following link:

[https://cea.nic.in/wp-content/uploads/pse\\_\\_td/2023/06/om\\_guidelines.pdf](https://cea.nic.in/wp-content/uploads/pse__td/2023/06/om_guidelines.pdf)

2.3 With reference to subject scheme of existing sub-station, we assumed following scope of work:

- (a) We assumed internal road is available and need not to consider in the present scope of work.
- (b) Drainage is available and need not to consider in the present scope of work.
- (c) Cable trench extension in adjacent to Main cable trench only under present scope of work.
- (d) Levelled area being provided by developer for bay extension.

**Reply:** Regarding requirement of internal road, drainage, cable trench, leveling of the bay extension area, bidder is advised to visit site and acquaint themselves with the provisions/facilities available at substation.

2.4 Kindly provide the soil investigation report of soil parameters of existing substation.

**Reply:** Bidder is advised to visit the substation site and ascertain the requisite parameters.

2.5 Kindly confirm, energy accounting of aux. power consumption. Whether it will be on chargeable basis or part of transmission loss.

**Reply:** It will be on chargeable basis.

2.6 We understand that VMS requirement is for unmanned stations only. For Manned stations VMS is not compulsory.

**Reply:** VMS shall be provided in line with requirements of RfP document.

2.7 It is understood that Construction water and power shall be provided free of cost to TSP by respective substation owner for construction of new bays.



**Reply:** Arrangement of construction power and water is in the scope of TSP.

2.8 It is understood that existing fire hydrant system shall be extended by the TSP for bay extension.

**Reply:** Existing fire hydrant system shall be extended from existing system (if required)

2.9 Please clarify that Status of land acquisition for Substations. Whether the lands have been acquired by BPC and will be transferred to TSP.

**Reply:** The acquisition of land for substation is in the scope of TSP.

2.10 We understood that no any dedicated metering CT and CVT required for Line/feeders. Further, we understood that requisite Energy meters for various 765 kV, 400 kV and 220 kV Feeders shall be provided and installed by CTU free of cost to TSP.

**Reply:** Dedicated metering CT and CVT are not required for line/feeders. Metering core of existing CT/CVT can be used provided accuracy class is matching with metering requirement. Requisite Special Energy Meters shall be provided and installed by CTU at the cost of TSP in C&P panel subject to space availability, else, in separate metering panel (to be provided by TSP at its cost).

**3.0 Communication**

3.1 What is the usage of OPGW, FOTE, PMU etc. under communication requirement of RFP?

**Reply:** User shall be responsible for providing compatible equipment along with appropriate interface for uninterrupted communication with the concerned control center and shall be responsible for successful integration with the communication system provided by CTU.

Communication systems e.g. OPGW, FOTE, PMU etc. are required for grid operation through RLDC/SLDC, speech communication, tele-protection and tele-metering.

3.2 Is space for installation of communication panels are provided to TSP in existing Substations incase new bays are in the scope of TSP?

**Reply:** The space related issues are deliberated in the RFP itself. TSP to carry out survey of the existing substation for physical space requirement. In case space is not available in the existing substation then TSP shall accommodate the same in the respective bay SPR (Switchyard Panel Room)/Bay Kiosk/ Relay panel room in case of GIS s/s. Further, TSP to connect and integrate the proposed FOTE with the existing FOTE in the control room.

In Case 132 kV Substation TSP shall accommodate the said panels either by extension of existing control room or other arrangements.

3.3 How is the OPGW laying done in case of LILO lines?

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**Reply:** In case LILO lines are on same towers (e.g. both Line in and Line Out **portion** are on same towers, generally done LILO of S/C lines). Then 2x24F OPGW shall be required to install by TSP on both earthwire peak on 400 kV and 765 kV lines where two E/W peaks are available. On 220 kV and 133 kV lines where only one E/W peak is available TSP to install one no. 48F OPGW.

Incase LILO lines are on different towers (e.g. both Line in and Line Out portion are on different towers, generally done LILO of D/C lines). Then 1x24F OPGW shall be required to install by TSP on one earthwire peak, on both Line In and Line Out portions of 400 kV and 765 kV lines. On 220 kV and 132 kV lines where only one E/W peak is available TSP to install one no. 24F OPGW in place of conventional earthwire.

3.4 How is the OPGW laying done in case Multi circuit Towers?

**Reply:** In case two different lines are using common multi circuit portion for some distance (originating from different stations, may be terminating on same or on different stations). Two no. 24F OPGW to be installed on both E/W peaks for common M/C portion of 765 kV and 400 kV lines.

Incase 220/132 kV lines using multi circuit portion where single E/W peak is available one no. 48F may be installed for common multi circuit portion.



Schedule: 2

Scheduled COD

[Note: As referred to in the definition of “Element”, “Scheduled COD”, and in Articles 3.1.3 (c), 4.1 (b) and 4.3 (a) of this Agreement]

No.	Name of the Transmission Element	Scheduled COD	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Establishment of new 765/400 kV, 2x1500MVA GIS substation at Gopalpur in Odisha	31-12-2027	29.98%	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other
2.	Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAR switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits		61.95%	
3.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line@		3.72%	
4.	Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS		1.93%	
5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s		2.42%	



**Note:**

- (a) @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- (b) #The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- (c) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- (d) POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765 kV D/c line.



**Schedule: 3**

**Safety Rules and Procedures**

[Note: As referred to in Articles 5.6 of this Agreement]

**1: Site Regulations and Safety:**

The TSP shall establish Site regulations within sixty (60) days from fulfilment of conditions subsequent, as per Prudent Utility Practices setting out the rules to be observed till expiry of the Agreement at the Site and shall comply therewith.

Such Site regulations shall include, but shall not be limited to, rules in respect of security, safety of the Project, gate control, sanitation, medical care, and fire prevention, public health, environment protection, security of public life, etc.

Copies of such Site regulations shall be provided to the Nodal Agency and the CEA for the purpose of monitoring of the Project.

**2: Emergency Work:**

In cases of any emergency, the TSP shall carry out all necessary remedial work as may be necessary.

If the work done or caused to be done by any entity, other than the TSP, the TSP shall, reimburse the actual costs incurred, to the other Party carrying out such remedial works.

**3: Site Clearance:**

In the course of execution of the Agreement, the TSP shall keep the Site reasonably free from all unnecessary obstruction, storage, remove any surplus materials, clear away any wreckage, rubbish and temporary works from the Site, and remove any equipment no longer required for execution of the Agreement. After completion of all Elements of the Project, the TSP shall clear away and remove all wreckage, rubbish and debris of any kind from the Site, and shall leave the Site clean and safe.

**4: Watching and Lighting:**

The TSP shall provide and maintain at its own expense all lighting, fencing, and watching when and where necessary for the proper construction, operation, maintenance / repair of any of the Elements of the Project, or for the safety of the owners and occupiers of adjacent property and for the safety of the public, during such maintenance / repair.

**Schedule: 4**

**Computation of Transmission Charges**

**1.1 General**

The Monthly Transmission Charges to be paid to the TSP for providing Transmission Service for any Contract Year during the term of the Agreement shall be computed in accordance with this Schedule and paid as per Sharing Regulations.

Illustration regarding payment of Transmission Charges under various scenarios (considering definitions of Contract Year, Expiry Date & Monthly Transmission Charges above) is as below: -

**Illustration-1: In case the Project Elements achieve COD as per Schedule**

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	28	1-Feb-2018	1-Feb-2018	25%
Element 2	38	1-Dec-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	140 X 25% X ((28+31)/365)	5.65		--	0.00
1-Apr-18 to 30-Nov-18	140 X 25% X (244/365)	23.39		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59



**Illustration-2: In case of extension of Scheduled COD as per Article 4.4.1 & 4.4.2 of this Agreement**

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

**Illustration-3: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year 1)**

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

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Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Dec-2018	25%
Element 2	28	1-Oct-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Sept-18	--	0.00		--	0.00
1-Oct-18 to 30-Nov-18	--	0.00	1-Oct-18 to 30-Nov-18	--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59

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**Illustration-4: In case of delay in achieving COD of Project & all individual Elements (COD of the Project achieved in Contract Year other than Contract Year 1)**

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-May-2020	25%
Element 2	38	1-Oct-2019	1-May-2020	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Oct-19 to 31-Mar-20	--	0.00	1-Oct-19 to 31-Mar-20	--	0.00
1-Apr-20 to 30-Apr-20	-	0.00	1-Apr-20 to 30-Apr-20	-	0.00
1-May-20 to 31-Mar-21	140 X 100% X (335/365)				128.49
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Apr)	140 X 100% X (30/ 365)				11.51



**Illustration5: In case of delay in achieving COD of Element but Project COD achieved on time**

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	20	1-Feb-2018	1-Jul-2018	25%
Element 2	30	1-Dec-2018	1-Dec-2018	75%

Tariff Payable as follows:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Feb-18 to 31-Mar-18	--	0.00		--	0.00
1-Apr-18 to 30-Jun-18	--	0.00		--	0.00
1-Jul-18 to 30-Nov-18	140 X 25% X (153/365)	14.67		--	0.00
1-Dec-18 to 31-Mar-19	140 X 100% X (121/365)				46.41
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr to 30-Nov)	140 X 100% X (244/365)				93.59



**Illustration-6: In case of early commissioning of Project**Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Jul-2019	25%
Element 2	38	1-Oct-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1		Transmission Charges for Element 2	
1-July-19 to 31-Mar-20	140 X 100% X (274/365)		105.09
2	140 X 100% X 1		140
3	140 X 100% X 1		140
4	140 X 100% X 1		140
5	140 X 100% X 1		140
.....			
.....			
36 (1-Apr to 30-Jun)	140 X 100% X (91/365)		34.91



**Illustration-7: In case of early commissioning of an element**

Quoted Transmission Charges: **Rs. 140 Million**

Completion Schedule:

Element No.	Completion Schedule in Months	Scheduled CoD of the Element	Actual CoD of the Element	% Charges recoverable on Scheduled CoD of the Element
Element 1	38	1-Oct-2019	1-Apr-2019	25%
Element 2	38	1-Jul-2019	1-Jul-2019	75%

Tariff Payment to be paid as:

Transmission Charges for Element 1			Transmission Charges for Element 2		
1-Apr-2019 to 30-Jun-19	140 X 25% X (91/365)	8.72	1-Apr-2019 to 30-Jun-19	--	0.00
1-July-19 to 31-Mar-20	140 X 100% X (274/ 365)				105.09
2	140 X 100% X 1				140
3	140 X 100% X 1				140
4	140 X 100% X 1				140
5	140 X 100% X 1				140
.....					
.....					
36 (1-Apr-30-Jun)	140 X 100% X (91/365)				34.91

The Transmission Charges shall be payable on monthly basis as computed above.

**1.2 Computation of Monthly Transmission Charges**

The Monthly Transmission Charges for any month m in a Contract Year n shall be calculated as below:

For AC System:

- a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 98% and less than or equal to 98.5%;



Monthly Transmission Charges  $MTC(m) = T_{mn} * I$

- a. If Actual Transmission System Availability for the month m of contract year n exceeds 98.5% and less than or equal to 99.75%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (AA/ 98.5\%)$

- c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (99.75\% / 98.5\%)$

- d. If Actual Transmission System Availability for the month m of contract year n is less than 98% and greater than or equal to 95.00%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (AA/ 98\%)$

- e. If Actual Transmission System Availability for the month m of contract year falls below 95%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (AA/ 98\%) - 0.02 * (T_{mn} * (AA/ 95\%))$

For DC System:

- a. If Actual Transmission System Availability for the month m of contract year n is greater than or equal to 95% and less than or equal to 96%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * I$

- b. If Actual Transmission System Availability for the month m of contract year n exceeds 96% and less than or equal to 99.75%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (AA/ 96\%)$

- c. If Actual Transmission System Availability for the month m of contract year n is greater than 99.75%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (99.75\% / 96\%)$

- d. If Actual Transmission System Availability for the month m of contract year n is less than 95% and greater than or equal to 92.00%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (AA/ 95\%)$

- e. If Actual Transmission System Availability for the month m of contract year falls below 92%;

Monthly Transmission Charges  $MTC(m) = T_{mn} * (AA/ 95\%) - 0.02 * (T_{mn} * (AA/ 92\%))$



where:

- AA is the actual Availability, as certified by RPC, as per procedure provided in Schedule 6.
- m is the month in Contract Year 'n'
- $T_{mn}$  = Transmission Charges for the month 'm' in Contract Year 'n' =  
(=Transmission Charge/ no. of days in the Year n)\* no. of days in month m

Provided, no Transmission Charges shall be paid during the period for which the RLDC has not allowed the operation of the Element/Project due to the failure of the TSP to operate it as per the provisions of the Grid Code.

### 1.3 RLDC Fee & Charges

The payment of RLDC fee & charges, in accordance with relevant regulations of CERC, shall be the responsibility of the TSP.

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**Schedule: 5**

**Quoted Transmission Charges**

[Quoted Transmission Charges from Annexure - 21 of the RFP of the Selected Bidder to be inserted here]

[To be incorporated from the Bid of the Selected Bidder submitted during the e-reverse auction after its selection]

**Quoted Transmission Charges: Rs. 2897.29 Million**

**Proportionate Transmission Charges payable for each Element of the Project:**

Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
1.	Establishment of new 765/400 kV, 2x1500MVA GIS substation at Gopalpur in Odisha	31-12-2027	29.98%	All elements at Sl. No. 1 to 5 are required to be commissioned simultaneously as their utilization is dependent on commissioning of each other
2.	Angul (POWERGRID) – Gopalpur 765 kV D/c line along with 765 kV, 1x330 MVAR switchable line reactor with 500 ohm NGR (with NGR bypass arrangement) at Gopalpur end in both circuits		61.95%	
3.	Gopalpur – Gopalpur (OPTCL) 400 kV D/c (Quad) line@		3.72%	
4.	Extension at 765 kV level at Angul (POWERGRID) S/s including bus extension in GIS		1.93%	

Sl. No.	Name of the Transmission Element	Scheduled COD from effective date	Percentage of Quoted Transmission Charges recoverable on Scheduled COD of the Element of the Project	Element(s) which are pre-required for declaring the commercial operation (COD) of the respective Element
5.	Extension at 400 kV level at #Gopalpur (OPTCL) GIS S/s		2.42%	

Note:

- (e) @Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input 20km line has been considered between 765/400 kV (ISTS) and 400/220 kV (Intra-state) substations at Gopalpur.
- (f) #The bus scheme of 400 kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400 kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.
- (g) OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220 kV GIS S/s for implementation of 2 nos. of 400 kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400 kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.
- (h) POWERGRID shall provide space at Angul (POWERGRID) 765/400 kV S/s for implementation of 2 nos. of 765 kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765 kV D/c line.



## Schedule: 6

**Appendix IV of the Central Electricity Regulatory Commission (Terms and Conditions of Tariff) Regulations 2024****Procedure for Calculation of Transmission System  
Availability Factor for a Month**

1. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by the respective transmission licensee, verified by the concerned Regional Load Dispatch Centre (RLDC) and certified by the Member-Secretary, Regional Power Committee of the region concerned, separately for each AC and HVDC transmission system and grouped according to sharing of transmission charges. In the case of the AC system, transmission System Availability shall be calculated separately for each Regional Transmission System and inter-regional transmission system. In the case of the HVDC system, transmission System Availability shall be calculated on a consolidated basis for all inter-state HVDC systems.
2. Transmission system availability factor for nth calendar month ("TAFPn") shall be calculated by considering the following:
  - i) **AC transmission lines:** Each circuit of AC transmission line shall be considered as one element;
  - ii) **Inter-Connecting Transformers (ICTs):** Each ICT bank (three single-phase transformers together) shall form one element;
  - iii) **Static VAR Compensator (SVC):** SVC, along with SVC transformer, shall form one element;
  - iv) **Bus Reactors or Switchable line reactors:** Each Bus Reactors or Switchable line reactors shall be considered as one element;
  - v) **HVDC Bi-pole links:** Each pole of the HVDC link, along with associated equipment at both ends, shall be considered as one element;
  - vi) **HVDC back-to-back station:** Each block of the HVDC back-to-back station shall be considered as one element. If the associated AC line (necessary for the transfer of inter-regional power through the HVDC back-to-back station) is not available, the HVDC back-to-back station block shall also be considered unavailable;
  - vii) **Static Synchronous Compensation ("STATCOM"):** Each STATCOM shall be considered as a separate element.
3. The Availability of the AC and HVDC portion of the Transmission system shall be calculated by considering each category of transmission elements as under:



**TAFPN (in %) for AC system:**

$$= \frac{(\alpha \times AV\alpha) + (p \times AVp) + (q \times AVq) + (r \times AVr) + (u \times AVu)}{(\alpha + p + q + r + u)} \times 100$$

Where,

- $\alpha$  = Total number of AC lines.
- $AV\alpha$  = Availability of  $\alpha$  number of AC lines
- $p$  = Total number of bus reactors/switchable line reactors
- $AVp$  = Availability of  $p$  number of bus reactors/switchable line reactors
- $q$  = Total number of ICTs
- $AVq$  = Availability of  $q$  number of ICTs
- $r$  = Total number of SVCs
- $AVr$  = Availability of  $r$  number of SVCs
- $u$  = Total number of STATCOM
- $AVu$  = Availability of  $u$  number of STATCOM

**TAFMN (in %) for HVDC System:**

$$= \frac{\sum_{x=1}^s Cx_{bp}(\text{act}) \times AVx_{bp} + \sum_{y=1}^t Cy(\text{act})_{btb} \times AVy_{btb}}{\sum_{x=1}^s Cx_{bp} + \sum_{y=1}^t Cy_{btb}} \times 100$$

Where

- $Cx_{bp}(\text{act})$  = Total actual operated capacity of  $x^{\text{th}}$  HVDC pole
- $Cx_{bp}$  = Total rated capacity of  $x^{\text{th}}$  HVDC pole
- $AVx_{bp}$  = Availability of  $x^{\text{th}}$  HVDC pole
- $Cy_{btb}(\text{act})$  = Total actual operated capacity of  $y^{\text{th}}$  HVDC back-to-back station block
- $Cy_{btb}$  = Total rated capacity of  $y^{\text{th}}$  HVDC back-to-back station block
- $AVy_{btb}$  = Availability of  $y^{\text{th}}$  HVDC back-to-back station block
- $s$  = Total no of HVDC poles
- $t$  = Total no of HVDC Back to Back blocks



4. The availability for each category of transmission elements shall be calculated based on the weightage factor, total hours under consideration and non-available hours for each element of that category. The formulae for calculation of the Availability of each category of the transmission elements are as per **Appendix-V**. The weightage factor for each category of transmission elements shall be considered as under:
- (a) For each circuit of the AC line – The number of sub-conductors in the line multiplied by ckt-km;
  - (b) For each HVDC pole- The rated MW capacity x ckt-km;
  - (c) For each ICT bank – The rated MVA capacity;
  - (d) For SVC- The rated MVAR capacity (inductive and capacitive);
  - (e) For Bus Reactor/switchable line reactors – The rated MVAR capacity;
  - (f) For HVDC back-to-back stations connecting two Regional grids- Rated MW capacity of each block; and
  - (g) For STATCOM – Total rated MVAR Capacity.
5. The transmission elements under outage due to the following reasons shall be deemed to be available:
- i. Shut down availed for maintenance of another transmission scheme or construction of new element or renovation/upgradation/additional capitalization in an existing system approved by the Commission. If the other transmission scheme belongs to the transmission licensee, the Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved. In case of a dispute regarding deemed availability, the matter may be referred to the Chairperson, CEA, within 30 days.
  - ii. Switching off of a transmission line to restrict over-voltage and manual tripping of switched reactors as per the directions of the concerned RLDC.
  - iii. Shut down of a transmission line due to the Project(s) of NHAI, Railways and Border Road Organization, including for shifting or modification of such transmission line or any other infrastructure project approved by Ministry of Power. Member Secretary, RPC may restrict the deemed availability period to that considered reasonable by him for the work involved; Provided that apart from the deemed availability, any other costs involved in the process of such shutdown of transmission line shall not be borne by the DICs.

Provided that such deemed availability shall be considered only for the period for which DICs are not affected by the shutdown of such transmission line.



6. For the following contingencies, the outage period of transmission elements, as certified by the Member Secretary, RPC, shall be excluded from the total time of the element under the period of consideration for the following contingencies:
- i) Outage of elements due to force majeure events beyond the control of the transmission licensee. However, whether the same outage is due to force majeure (not design failure) will be verified by the Member Secretary, RPC. A reasonable restoration time for the element shall be considered by the Member Secretary, RPC, and any additional time taken by the transmission licensee for restoration of the element beyond the reasonable time shall be treated as outage time attributable to the transmission licensee. Member Secretary, RPC may consult the transmission licensee or any expert for estimation of reasonable restoration time. Circuits restored through ERS (Emergency Restoration System) shall be considered as available;
  - ii) Outage caused by grid incident/disturbance not attributable to the transmission licensee, e.g. faults in a substation or bays owned by another agency causing an outage of the transmission licensee's elements, and tripping of lines, ICTs, HVDC, etc., due to grid disturbance. However, if the element is not restored on receipt of direction from RLDC while normalizing the system following grid incident/disturbance within reasonable time, the element will be considered not available for the period of outage after issuance of RLDC's direction for restoration;
  - iii) The outage period which can be excluded for the purpose of sub-clause (i) and (ii) of this clause shall be declared as under:
    - a. Maximum up to one month by the Member Secretary, RPC;
    - b. Beyond one month and up to three months after the decision at RPC;
    - c. Beyond three months by the Commission for which the transmission license shall approach the Commission along with reasons and steps taken to mitigate the outage and restoration timeline.
7. Time frame for certification of transmission system availability: (1) The following schedule shall be followed for certification of availability by the Member Secretary of the concerned RPC:
- Submission of outage data along with documentary proof (if any) and TAFPn calculation by Transmission Licensees to RLDC/ constituents
    - By the 5<sup>th</sup> of the following month;
  - Review of the outage data by RLDC / constituents and forward the same to respective RPC – by 20<sup>th</sup> of the month;
  - Issue of availability certificate by respective RPC – by the 3<sup>rd</sup> of the next month.



Appendix-V

FORMULAE FOR CALCULATION OF AVAILABILITY OF EACH CATEGORY OF TRANSMISSION ELEMENTS

For AC transmission system

$$AV_o(\text{Availability of } o \text{ no. of AC lines}) = \frac{\sum_{i=1}^o W_i(T_i - TN_{Ai})/T_i}{\sum_{i=1}^o W_i}$$

$$AV_q(\text{Availability of } q \text{ no. of ICTs}) = \frac{\sum_{k=1}^q W_k(T_k - TN_{Ak})/T_k}{\sum_{k=1}^q W_k}$$

$$AV_r(\text{Availability of } r \text{ no. of SVCs}) = \frac{\sum_{l=1}^r W_l(T_l - TN_{Al})/T_l}{\sum_{l=1}^r W_l}$$

$$AV_p(\text{Availability of } p \text{ no. of Switched Bus reactors}) = \frac{\sum_{m=1}^p W_m(T_m - TN_{Am})/T_m}{\sum_{m=1}^p W_m}$$

$$AV_u(\text{Availability of } u \text{ no. of STATCOMs}) = \frac{\sum_{n=1}^u W_n(T_n - TN_{An})/T_n}{\sum_{n=1}^u W_n}$$

$$AV_{xpb}(\text{Availability of an individual HVDC pole}) = \frac{(T_x - TN)}{T_x}$$

$AV_{ybb}$  (Availability of an individual HVDC

$$\text{Back-to-back Blocks}) = \frac{(T_y - TN_{Ay})}{T_y}$$



For the HVDC transmission system

For the new HVDC commissioned but not completed twelve months;

For first 12 months:  $[(AV_{xbp} \text{ or } AV_{ybtb}) \times 95\%/85\%]$ , subject to a ceiling of 95%.

Where,

$o$	=	Total number of AC lines;
$AV_o$	=	Availability of $o$ number of AC lines;
$p$	=	Total number of bus reactors/switchable line reactors;
$AV_p$	=	Availability of $p$ number of bus reactors/switchable line reactors;
$q$	=	Total number of ICTs;
$AV_q$	=	Availability of $q$ number of ICTs;
$r$	=	Total number of SVCs;
$AV_r$	=	Availability of $r$ number of SVCs;
$U$	=	Total number of STATCOM;
$AV_u$	=	Availability of $u$ number of STATCOMs;
$W_i$	=	Weightage factor for $i$ th transmission line;
$W_k$	=	Weightage factor for $k$ th ICT;
$W_l$	=	Weightage factors for inductive & capacitive operation of $l$ th SVC;
$W_m$	=	Weightage factor for $m$ th bus reactor;
$W_n$	=	Weightage factor for $n$ th STATCOM.
$T_i, T_k, T_l,$ $T_m, T_n, T_x,$ $T_y$	=	The total hours of $i$ th AC line, $k$ th ICT, $l$ th SVC, $m$ th Switched Bus Reactor & $n$ th STATCOM, $x$ th HVDC pole, $y$ th HVDC back-to-back blocks during the period under consideration (excluding time period for outages not attributed to transmission licensee for the reasons given in Para 5 of the procedure)
$T_{NAi}, T_{NAk}$	=	The non-availability hours (excluding the time period for outages not $T_{NAi}, T_{NAm}$ , attributable to transmission licensee taken as deemed availability as $T_{NAi}, T_{NAk}, T_{NAx}, T_{NAy}$ per Para 5 of the procedure) for $i$ th AC line, $k$ th ICT, $l$ th SVC, $m$ th Switched Bus Reactor, $n$ th STATCOM, $x$ th HVDC pole and $y$ th HVDC back-to-back block.



**Schedule: 7**

**Entire Bid (both financial bid and technical bid) of the Selected Bidder to be attached here**

*Bid dated 24.09.2024 shall be integral part of this agreement.*

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Schedule: 8

Contract Performance Guarantee

(To be on non-judicial stamp paper of appropriate value as per Stamp Act relevant to place of execution. Foreign entities submitting Bids are required to follow the applicable law in their country.)

In consideration of the .....[Insert name of the SPV or Selected Bidder on behalf of the TSP, or Lead Member in case of the Consortium, with address] agreeing to undertake the obligations under the Transmission Service Agreement dated .....and the other RFP Project Documents and the Nodal Agency and the .....[Insert the name of the BPC], agreeing to execute the RFP Project Documents with the Selected Bidder, regarding setting up the Project, the ..... [Insert name and address of the bank issuing the guarantee and address of the head office] (hereinafter referred to as "Guarantor Bank") hereby agrees unequivocally, irrevocably and unconditionally to pay to ..... (being the Nodal Agency) at .....[Insert the Place from the address of the Nodal Agency indicated in the TSA] forthwith on demand in writing from the Nodal Agency or any Officer authorized by it in this behalf, any amount up to and not exceeding Rupees ..... Crores (Rs. ....) only [Insert the amount of the bank guarantee] on behalf of M/s. .... [Insert name of the Selected Bidder or SPV].

This guarantee shall be valid and binding on the Guarantor Bank up to and including .....and shall not be terminable by notice or any change in the constitution of the Bank or the term of the Transmission Service Agreement or by any other reasons whatsoever and our liability hereunder shall not be impaired or discharged by any extension of time or variations or alternations made, given, or agreed with or without our knowledge or consent, by or between parties to the respective agreement.

Our liability under this Guarantee is restricted to Rs. .... Crores (Rs. ....) only. Our Guarantee shall remain in force until ..... [Insert the date of validity of the Guarantee as per Article 3.1.2 of this Agreement]. The Nodal Agency, shall be entitled to invoke this Guarantee up to three hundred sixty five (365) days of the last date of the validity of this Guarantee.

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The Guarantor Bank hereby expressly agrees that it shall not require any proof in addition to the written demand from ..... (in its roles as the Nodal Agency), made in any format, raised at the above mentioned address of the Guarantor Bank, in order to make the said payment to Nodal Agency.

The Guarantor Bank shall make payment hereunder on first demand without restriction or conditions and notwithstanding any objection by ..... [Insert name of the Selected Bidder], ..... [Insert name of the TSP] and / or any other person. The Guarantor Bank shall not require Nodal Agency to justify the invocation of this BANK GUARANTEE, nor shall the Guarantor Bank have any recourse against Nodal Agency in respect of any payment made hereunder.

**THIS BANK GUARANTEE** shall be interpreted in accordance with the laws of India.

The Guarantor Bank represents that this BANK GUARANTEE has been established in such form and with such content that it is fully enforceable in accordance with its terms as against the Guarantor Bank in the manner provided herein.

**THIS BANK GUARANTEE** shall not be affected in any manner by reason of merger, amalgamation, restructuring, liquidation, winding up, dissolution or any other change in the constitution of the Guarantor Bank.

**THIS BANK GUARANTEE** shall be a primary obligation of the Guarantor Bank and accordingly Nodal Agency shall not be obliged before enforcing this BANK GUARANTEE to take any action in any court or arbitral proceedings against ..... [Insert name of the SPV] or the Selected Bidder, as the case may be, to make any claim against or any demand on ..... [Insert name of the SPV] or the Selected Bidder, as the case may be, or to give any notice to ..... [Insert name of the SPV] or the Selected Bidder, as the case may be, or to enforce any security held by the Nodal Agency or to exercise, levy or enforce any distress, diligence or other process against ..... [Insert name of the SPV] or the Selected Bidder, as the case may be.

The Guarantor Bank acknowledges that this BANK GUARANTEE is not personal to Nodal Agency and may be assigned, in whole or in part, (whether absolutely or by way of security) by Nodal Agency to any entity to whom the Nodal Agency is entitled to assign its rights and obligations under the Transmission Service Agreement.

The Guarantor Bank hereby agrees and acknowledges that Nodal Agency shall have a right to invoke this Bank Guarantee either in part or in full, as it may deem fit.

Notwithstanding anything contained hereinabove, our liability under this Guarantee is restricted to Rs. .... Crores (Rs. ....) only and it shall



remain in force until ..... [Date to be inserted on the basis of Article 3.1.2 of the Transmission Service Agreement], with an additional claim period of three hundred sixty five (365) days thereafter. This BANK GUARANTEE shall be extended from time to time for such period, as may be desired by ..... [Insert name of the Selected Bidder or Lead Member in case of the Consortium or SPV]. We are liable to pay the guaranteed amount or any part thereof under this Bank Guarantee only if Nodal Agency serves upon us a written claim or demand.

**In witness where of:**

Signature .....

Name: .....

Power of attorney No.: .....

**For:**

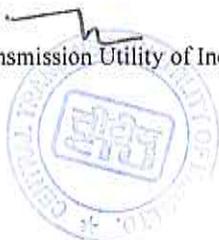
..... [Insert Name of the Bank]

**Banker's Seal and Full Address, including mailing address of the Head Office**

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**Schedule: 9**

**Methodology for determining the Relief Under Force Majeure Event & Change in Law during Construction Period**

The relief in the form of revision in tariff due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days and/ or Change in Law during the construction period shall be as under:

$$\Delta T = [(P \times d)] \div [1 - (1 + d)^{-n}]$$

Where,

$\Delta T$  = Change in Transmission Charges for each year

P = Sum of cumulative increase or decrease in the cost of the Project due to Change in Law and interest cost during construction corresponding to the period exceeding one hundred eighty (180) due to Force Majeure Event leading to extension of Scheduled COD for a period beyond one hundred eighty (180) days

n = number of years over which the Transmission Charges has to be paid

d = Discount rate as notified by the CERC, applicable on the Bid Deadline

The increase in Transmission Charges as stated above shall be applicable only if the value of increase in Transmission Charges as calculated above exceeds 0.30% (zero point three percent) of the quoted Transmission Charges of the TSP.



Ref. No.: RECPDCL/ISTS/ERES-XXXIX/2024-25/27-80

Date: 14.11.2024

To,  
M/s The Tata Power Company Limited,  
Shatabdi Bhawan, B-12 & 13, sector 4  
Noida, UP-201301

## Annexure P-36 (Colly)

Kind Attention: Sh. Piyush Kumar, Authorized Signatory

Sub: Handing over documents in respect of "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)".

Dear Sir,

Pursuant to Letter of Intent (LoI) issued on 15.10.2024 thereof and handing over SPV (ERES-XXXIX Power Transmission Limited) on 14.11.2024 to M/s The Tata Power Company Limited, please find following documents:

- I. Original Certificate issued by the Bid Evaluation Committee in accordance with the "Tariff Based Competitive Bidding Guidelines for Transmission Service".
- II. One original Transmission Service Agreement (TSA) duly signed between Central Transmission Utility of India Limited (CTU) and ERES-XXXIX Power Transmission Limited, witnessed by the representatives of RECPDCL.
- III. Copy of Notification dated 01.03.2024 regarding allocation of the "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" to REC Power Development and Consultancy Limited to acting as Bid Process Coordinator (BPC).
- IV. Copy of letter dated 02.05.2024 to obtain approval from CEA & letter of approval for Laying of overhead transmission Lines under section 68 of the Electricity Act from Central Electricity Authority/Ministry of Power.
- V. Copy of Letter dated 18.03.2024 to CERC & MoP in regard to initiation of the bid process for the subject transmission scheme.
- VI. Newspaper cuttings along with copies of NIT.
- VII. Copy of letter dated 10.05.2024 & mail dated 05.09.2024 from Central Electricity Authority (CEA) regarding nomination of Bid Evaluation Committee members for subject project.
- VIII. Copy of approval of Ministry of Power for sale & transfer of SPV i.e. ERES-XXXIX Power Transmission Limited.
- IX. Original acknowledged Letter dated 12.04.2024 written to Divisional Forest Officer (DFO), Mahanadi Wildlife Division, Nayagarh, Odisha for Wildlife Sanctuary Clearance.
- X. Original acknowledged Letter dated 12.04.2024 written to Divisional Forest Officer (DFO), Satkosia Wildlife Division, Angul, Odisha for Wildlife Sanctuary Clearance.
- XI. Original acknowledged Letter dated 12.04.2024 written to Divisional Forest Officer (DFO), Athagarh, Distt. - Cuttuck, Odisha for Forest Clearance.
- XII. Original acknowledged Letter dated 12.04.2024 written to Divisional Forest Officer (DFO), Nayagarh, Odisha for Forest Clearance.
- XIII. Original acknowledged Letter dated 12.04.2024 written to Divisional Forest Officer (DFO), Dhenkanal, Odisha for Forest Clearance.
- XIV. Original acknowledged Letter dated 12.04.2024 written to Divisional Forest Officer (DFO), Ghumusar North Division, Bhanjanagar, Odisha for Forest Clearance.
- XV. Original acknowledged Letter dated 12.04.2024 written to The District Magistrate & Collector, Chatrapur, Odisha for Allotment of Land.

You are requested kindly acknowledgement receipt of above-mentioned documents.

Thanking You,

Yours faithfully,

  
(Satyaban Sahoo) 14/11/24  
General Manager (Tech)

Encl: As above

Ref No.: RECPDCL/TBCB/ERES-XXXIX/2024-25/2779

Date: 14.11.2024

**Sh. Piyush Kumar, Authorized Signatory,**  
**M/s The Tata Power Company Limited,**  
Shatabdi Bhawan, B-12 & 13, sector 4  
Noida, UP-201301

**Sub: Establishment of Transmission System for "Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)" through tariff based competitive bidding process – Extension of Lol- regarding.**

Ref.: RECPDCL/TBCB/ ERES XXXIX/2024-25/2385, Dated 15.10.2024

Dear Sir,

This is in reference to above referred Letter of Intent dated 15<sup>th</sup> October, 2024 issued to M/s The Tata Power Company Limited for **Eastern Region Expansion Scheme-XXXIX (ERES-XXXIX)**.

To complete the activities mentioned under Clause 2.15.2, Clause no. 2.15.3 and Clause no. 2.15.4 of Request for Proposal (RFP) document, the last date for completion of various activities, is extended till 22<sup>nd</sup> November, 2024.

Thanking You,

Yours faithfully,

  
(Satyaban Sahoo)  
General Manager (Tech) 14/11/24



**A: Transmission Lines:**

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Sr no	Name (End Point location)	Voltage Class	Length (Km)	Type (S/C or D/C)	Remarks
1	Angul (POWERGRID) - Gopalpur 765kV D/C line	765 kV	180	D/C	
2	Gopalpur – Gopalpur (OPTCL) 400kV D/c (Quad) line	400 kV	20	D/C	

**B: Sub-stations:**

Sr No	Name of substation	Voltage Level (kV)	Transformer (Nos. and MVA Capacity)	Reactive / capacitive compensation (device with MVAR Capacity)	No of Bays	Remarks
1	Gopalpur 765/400kV, 2x1500MVA GIS substation	765	765/400kV, 1500MVA ICT: 765kV ICT bays 400kV ICT Bays:		2 No  2 No	
2	Gopalpur 765/400kV, 2x1500MVA GIS substation	765		765kV, 330MVA Bus reactor along with associated bays	2 No	
3	Gopalpur 765/400kV, 2x1500MVA GIS Substation	765	765kV Line bays		2 No	
4	Gopalpur 765/400kV, 2x1500MVA GIS substation	765		765 kV, 330MVA (3x110MVA single phase units) switchable line reactor along with associated bay and 500 ohm NGR	2 No	



5	Gopalpur 765/400kV, 2x1500MVA GIS substation	400		420kV, 125MVA Bus reactor along with associated bays	2 No	
6	Gopalpur 765/400kV, 2x1500MVA GIS substation	400	400kV line bays		2 No	
7	Extension at 765 kV Angul (Powergrid), substation	765	765kV Line bays		2 No	2 Bays will be exten ded under ERE S XXXI X sche me
8	Extension at 400 kV Gopalpur (OPTCL), substation	400	400 kV Line bays		2 No	2 Bays will be exten ded under ERE S XXXI X sche me

Note:

- i) Gopalpur (OPTCL) is being taken up for implementation and is expected to be awarded by Mar 2024. As per OPTCL's input, 20 km line length has been considered between 765/400kV (ISTS) and 400/220kV (Intra-state) substations at Gopalpur. 400/220kV (Intra-state) substations at Gopalpur.
- ii) The bus scheme of 400kV level at Gopalpur (OPTCL) GIS S/s shall be one and half breaker scheme, 2 nos. full diameter i.e. 4 nos. of GIS bays needs to be implemented in the scheme for requirement of 2 nos. GIS bays for termination of Gopalpur (OPTCL) – Gopalpur 400kV D/c (Quad) line in two different diameters. Utilisation of other 2 nos. GIS bays of these diameters shall be identified in future.



*Antam Singh*

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- iii) *OPTCL shall provide space at under implementation Gopalpur (OPTCL) 400/220kV GIS S/s for implementation of 2 nos. of 400kV GIS line bays for termination of Gopalpur (ISTS) – Gopalpur (OPTCL) 400kV D/c (Quad) line. 2 nos. full diameter i.e. 4 nos. GIS bays shall be established.*
- iv) *POWERGRID shall provide space at Angul (POWERGRID) 765/400kV S/s for implementation of 2 nos. of 765kV line bays (along with space for future switchable line reactor) along with bus extension in GIS for termination Angul (POWERGRID) – Gopalpur 765kV D/c line.*

a) Remarks: Status whether the element is existing or proposed to be added or deleted : Application for Grant of fresh License.

(b) Scheduled COD: 31.12.2027

(c) Agreements with Identified Long-term transmission customers or CTU for the Project, as applicable: Transmission Service Agreement (TSA) signed with CTUIL on 14.11.2024, enclosed as 'Annexure P-35' to this Application.

**3. Quoted transmission charges in case of project selected through the guidelines of competitive bidding and estimated completion cost of the project in other cases:**

Rs. 2897.29 million per annum

**4. In case applicant has been selected in accordance with the competitive bidding guidelines, enclose:**

(a) Approval of Central Government as per Electricity (Transmission System Planning, Development and Recovery of Inter-state Transmission Charges) Rules, 2021.  
Copy of Gazette notification dated 28.02.2024 (published on 01.03.2024) is enclosed as 'Annexure P-4' to this Application.

(b) Evaluation report (if made public) by the Bid Process Coordinator. Certificate of Bid Evaluation Committee as furnished by BPC is enclosed as 'Annexure P-27' to this Application.

**5. List of documents enclosed:**

**Name of document**

a) Certificate of Registration, MoA and AoA: [Annexure P-2 (colly.) to this Application]



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b) Certificate of Bid Evaluation Committee as furnished by BPC: ['Annexure P-27' to this Application]

c) Copy of Board Resolution: [Enclosed with this form.]

Dated: 21.11.2024

Place: New Delhi



*Shantanu Singh*

Shantanu Singh  
(Signature of Applicant or the person

Authorised)

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**ERES-XXXIX POWER TRANSMISSION LIMITED**

Registered Office: Plot No. 181, Ground Floor, Block - K, Mangolpuri, Delhi - 110083  
 CIN: U42202DL2024GOI428871 • Tel.: +91- 9223581895 • Email ID: tushardhande@tatapower.com

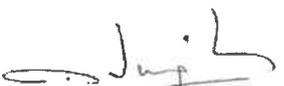
**Certified True Copy of the Resolution passed at the  
 Board Meeting held on November 14, 2024**

"RESOLVED that Mr. Shantanu Singh, Group Head - Legal, The Tata Power Company Limited, (Authorised Representative) be and is hereby authorised on behalf of the Company, to do the following acts, deeds, matters and things in connection with the issues related to legal matters:

- i) To commence any action or legal proceedings in any court of law and to defend for and on behalf of the Company all actions, suits, proceedings, applications or appeals arising under the provisions of the Electricity Act, 2003 (including the rules & regulations issued thereunder), and for such purposes to retain Advocates, Attorneys, Counsels and other legal practitioners, and appear for and represent the Company before Judge, Magistrate, tribunal, regulatory commission or any other public authority constituted under the Electricity Act, 2003 (including the rules and regulations issued thereunder), as occasion shall require, and thereupon to make any application, affidavit, petition including the signing of any appeal, revision, application or other document that may be required by the abovementioned authorities, or to do, execute and performs such acts, deeds, matters and things and shall be requisite or expedient according to law and in the interest of the Company. In addition to the matters concerning Electricity Act, 2003 as stated above, to commence any actions or legal proceedings in any court of law, including Arbitral Tribunal, High Court(s), Supreme Court of India and any other judicial forums in relation to matters related to Arbitration, Environmental Laws, filing of writ petitions, etc.
- ii) To commence any action or legal proceedings in any Court of law including any judicial/ quasi-judicial authority or institution, Regulatory Commission/Tribunal constituted under any Special Act and/or any of its Appellate forums, and to defend for and on behalf of the Company all actions including but not limited to Petitions, Suits, Writs or any other proceedings, applications or appeals arising under the various provisions of the Law/Act/ Rules/Regulations, etc as may be applicable and for such purposes to retain. Advocates, Attorneys, Counsels and other legal practitioners, and to appear for and represent the Company before any Court or judicial/quasi-judicial forums, Regulatory Commission/ Tribunal or any other public authority constituted under applicable Law/act including the rules and regulations issued thereunder), as occasion shall require, and thereupon to make any application, affidavit, petition or any other pleadings, documents including the signing and execution of such or any other documents as may be required by the abovementioned authorities/bodies or to do execute and performs such acts, deeds, matters and things and shall be requisite or expedient according to law and/or in the interest of the Company.
- iii) To do and execute or cause to be done and executed all documents and assurances, acts, deeds, matters or things ancillary or incidental to the abovementioned matters and all and whatsoever the Authorised Representative shall do or cause to be done in or about the premises by virtue of the aforesaid powers or any of them, the Company doth hereby for itself, its successors and assigns covenant with the said Mr. Singh, his heirs, executors and administrators to allow, ratify and confirm.
- iv) Generally to do and execute all acts, matters, instruments and things in or about the business of the Company as the Company could do or would have done touching these premises and that as amply and effectually to all intents and purposes as the Company could do or would have done, the Company hereby ratifies and confirms and agrees to ratify and confirm all and whatsoever the said Authorised Representative shall lawfully do or cause to be done in and about the premises by virtue of these presents "

  
 For ERES-XXXIX Power Transmission Limited  
 New Delhi-110009  
 Group Complex, 7, Lohini Road

Certified True Copy  
 For ERES-XXXIX Power Transmission Limited



**Arvind Singh**  
 Director  
 DIN: 03225022

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VAKALATNAMA

BEFORE THE HON'BLE CENTRAL ELECTRICITY REGULATORY  
COMMISSION, NEW DELHI

PETITION NO. /TL/2024



IN THE MATTER OF:

ERES-XXXIX Power Transmission Limited

...Petitioner/Applicant

**Versus**

Central Transmission Utility of India Limited & Anr.

...Respondents

I, Shantanu Singh Authorized Representative of the Petitioner Company, ERES-XXXIX POWER Transmission Limited in the instant Petition do hereby appoint:

Anand Kumar Shrivastava, Shruti Kanodia, Neha Sinha, Shivam Sinha, Ishita Jain, Nilesh Panda, Ravi Nair, Ankit Bhandari, Chetan Saxena, Eesha Sharma, Madhur, Mudassir, Subhashini Krishna, Rishabh Shukla & Devyanshu Sharma of Sagus Legal to appear, plead and act for me/us in the above appeal / petition and to conduct and prosecute all proceedings that may be taken in respect thereof and applications for return of documents, enter into compromise and to draw and moneys payable to me/us in the said proceeding and also to appear in all applications for review and for leave to the Supreme court of India in all applications for review of Judgment.

Place: New Delhi

Date: 21-11-2024



*Shantanu Singh*

Signature of the Party

ERES-XXXIX Power Transmission Limited  
PETITIONER



Accepted

*Anand Kumar Shrivastava*

[Anand Kumar Shrivastava]

**SAGUS LEGAL**

Counsel for the Petitioner

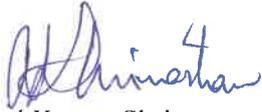
B-7/8, Ground Floor, Safdarjung Enclave, New Delhi-110029

Email: service@saguslegal.com

Phone No. 011-46552925

M No. 9910892925

*Ravina*



Anand Kumar Shrivastava  
MP/2818/2009



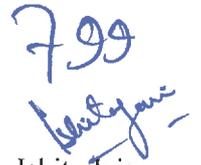
Shruti Kanodia  
D/1857/2008



Neha Sinha  
KAR/1299/2010



Shivam Sinha  
D/371/2015



Ishita Jain  
D/1461/2015



Nilesh Panda  
PH/1106/2020



Ravi Nair  
D/2338/2020



Ankit Bhandari  
D/10977/2021



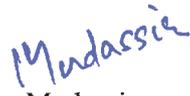
Chetan Saxena  
D/5781/2021



Eesha Sharma  
PH/3363/2021



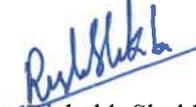
Madhur  
D/10606/2022



Mudassir  
D/6708/2022



Subhashini  
Krishna  
D/7653/2022



Rishabh Shukla  
D/9223/2023



Devanshu  
Sharma  
D/3544/2023

800

**ERES-XXXIX POWER TRANSMISSION LIMITED**

Registered Office: Plot No. 181, Ground Floor, Block - K, Mangolpuri, Delhi - 110083  
CIN: U42202DL2024GOI428871 • Tel.: +91- 9223581895 • Email ID: tushardhande@tatapower.com

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- ii) To commence any action or legal proceedings in any Court of law including any judicial/ quasi-judicial authority or institution, Regulatory Commission/Tribunal constituted under any Special Act and/or any of its Appellate forums, and to defend for and on behalf of the Company all actions including but not limited to Petitions, Suits, Writs or any other proceedings, applications or appeals arising under the various provisions of the Law/Act/ Rules/Regulations, etc as may be applicable and for such purposes to retain. Advocates, Attorneys, Counsels and other legal practitioners, and to appear for and represent the Company before any Court or judicial/quasi-judicial forums, Regulatory Commission/ Tribunal or any other public authority constituted under applicable Law/act including the rules and regulations issued thereunder), as occasion shall require, and thereupon to make any application, affidavit, petition or any other pleadings, documents including the signing and execution of such or any other documents as may be required by the abovementioned authorities/bodies or to do execute and performs such acts, deeds, matters and things and shall be requisite or expedient according to law and/or in the interest of the Company.
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- iv) Generally to do and execute all acts, matters, instruments and things in or about the business of the Company as the Company could do or would have done touching these premises and that as amply and effectually to all intents and purposes as the Company could do or would have done, the Company hereby ratifies and confirms and agrees to ratify and confirm all and whatsoever the said Authorised Representative shall lawfully do or cause to be done in and about the premises by virtue of these presents."

Certified True Copy  
For ERES-XXXIX Power Transmission Limited

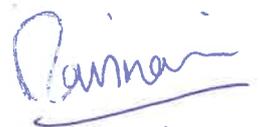
Arvind Singh  
Director  
DIN: 03225022

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**Form - I (Payment Related Report)****Particulars**

1.	Name of the Petitioner / Applicant	ERES-XXXIX Power Transmission Limited ERES XXXIX PTL
2.	Address of the Petitioner / Applicant	104-B , First Floor, 191/A,Kharavela Nagar, Unit 3, Bhubaneswar Odisha 751001 Bhubaneswar*
3.	Subject Matter	(Application under Section 14, 15, 79(1)(e) of the Electricity Act, 2003 read with the Central Electricity Regulatory Commission (Procedure, Terms and Conditions for Grant of Transmission License and other Related Matters) Regulation, 2024 and any other amendments thereon issued from time to time by this Hon'ble Commission, if any, for grant of Transmission License to Eastern Region Expansion Scheme - XXXIX Power Transmission Limited.)
4.	Diary No.	935/2024
5.	Petition No., if any	
6.	Details of generation / Transmission assets	
	(a) Generating station / units	
	(b) Capacity in MW / ATC	
	(c) Date of commercial operation	
	(d) Period of which fee paid	
	(e) Amount Paid	
	(f) Surcharge, if any	
7.	Application fee for licence	
	(a) Trading licence	
	(b) Transmission licence	0
	(c) Period of which paid	
	(d) Amount of fee paid	
8.	Fee paid for Miscellaneous Application	
9.	Fee paid for Interlocutory Application	
10.	Fee paid for Regulatory Compliance petition	
	Fee paid for Review Application	
	Licence fee for inter-state trading	
	(a) Category	
	(b) Period	
	(c) Amount of fee paid	
	(d) Surcharge, if any	
	Annual Registration Charge for Power Exchange	
	(a) Period	
	(b) Amount of turnover	
	(c) Fee paid	
	(d) Surcharge, if any	
	Details of fee remitted	
	(a) UTR No.	UTR no.N326243410013857

Nov 22, 2024, 1:22 AM



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(b) Date of remittance	21.11.2024
(c) Amount remitted	1,00,000/-
<b>Note : While Sl. Nos. 1 to 3 and 16 are compulsory, the rest may be filled up as applicable.</b>	
<b>Signature of the authorized signatory with date</b>	22.11.2024

*Ranman*