

## NOTICE INVITING TENDER

**The Tata Power Company Limited Invites Tenders** (Two-Part Bidding Process), from interested and eligible Vendors for the following Works required for its various Transmission Receiving Stations.

### **A. Summary of the tendered packages:**

<b>Tender Enquiry No.</b>	<b>Work Description</b>	<b>EMD (Rs.)</b>	<b>Tender Participation Fee (Rs.)</b>	<b>Last date and time for Payment of Tender Participation Fee*</b>
CC26NK032	Balance of Plant (BOP) work required across Tata Power Receiving Stations in Mumbai region.	1,00,000/-	Rs. 2,000/-	1500 Hrs. 05 <sup>th</sup> October 2025

**Interested bidder is strongly advised not to wait by above time and purchase the tender immediately to get the link for bid submission. This will enable them to communicate/raise queries against the subject tender in time.**

For additional technical details and Pre-qualification criteria for the subject works please refer section C below.

### **B. Guidelines for Participating:**

Interested and eligible vendors can participate by submitting the following up to 1500 hours on **Wednesday – 05<sup>th</sup> October 2025**.

1. Payment of non-refundable Tender Fee, as indicated in table above to be paid by direct deposit in following bank account

Beneficiary Name – The Tata Power Co. Ltd.

Bank Name – HDFC Bank Ltd.

Branch Name – Fort Branch, Mumbai

Address – Maneckji Wadia Building, Nanik Motwani Marg, Fort, Mumbai 400023.

Branch Code – 60

Bank & Branch Code – 400240015

Account No – 00600110000763

Account type – CC

IFSC Code – HDFC0000060

2. Submission of duly signed and stamped Authorization Letter indicating name of authorized person, contact number and e-mail id (mandatory) on Vendor's letterhead. The letter shall also mandatorily include payment details of Tender fee and Tender Reference no **CC26NK032**.

Authorization Letter along with proof of submission of tender fee should be e-mail to **Mr. Nithishkumar Kuppusami** ([n.kuppusami@tatapower.com](mailto:n.kuppusami@tatapower.com)) and copy to **Ms. Vaishali Kachare** ([vaishali.Kachare@tatapower.com](mailto:vaishali.Kachare@tatapower.com))

**Note:** - Once the above-mentioned documents are received, detailed RFP shall be issued through our e-tender system.

3. It is clarified that Bid Guarantee/EMD as mentioned in section "A" above, is not required to be submitted at this stage, and it will be required to be submitted in the form of Bank guarantee at the time of Bid Submission.

**C. Addition technical details: Prequalification Criteria (Technical & Commercial):**

<b>Pre-qualification Requirement Criteria</b>			
1	2	3	4
S No	Parameter	Tata Power Requirement	Documents To be submitted by Vendor to ascertain meeting of Pre-qualification requirement
1	Bidders' technical capability to handle jobs detailed in the tender	<p>Bidder should have minimum 03 years work experience in the field of electrical services for the following scope :-</p> <ol style="list-style-type: none"> <li>1. Erection &amp; Commissioning of GIS &amp; AIS (110kV &amp; above) , MV GIS, Capacitor bank, station transformer and Protection panels etc.</li> <li>2. Should have in-house engineering capability for site survey and preparation of Auto Cad drawing.</li> <li>3. Laying &amp; Termination of LV Power &amp; Control cables.</li> <li>4. Supply &amp; Services for Lighting system, Modification in existing ACDB and DCDB and Supply &amp; Services for AC and DC auxiliary system.</li> <li>5. Bidder should have valid electrical contractor &amp; supervisor license.</li> <li>6. Bidder should have experience of Civil Works (such as Excavation, RCC, Reinforcement Works etc.) especially for EHV Substation (110 kV and above).</li> </ol>	<p>Bidder to submit list of jobs and major order(s) executed including order copies (experience certificate validating the requirements). Bidder shall submit relevant documents meeting the desired criteria.</p>
2	Qualification	<p>Bidder's staff shall have minimum qualification as per the following: -</p> <ol style="list-style-type: none"> <li>1. Supervisor should be B.E. / Diploma with 2-year work experience.</li> <li>2. Electrical supervisory license holder with 2-year work experience.</li> <li>3. Skilled technicians shall have ITI / Wireman license.</li> </ol> <p>Tata Power reserves the right to assess the person prior to carrying out the required services.</p>	<p>Bidder to submit the list of manpower with qualifications &amp; experience certificate during bid submission.</p>
3	Material / Services	<p>Electrical accessories / material to be supplied by bidder shall be as per IS standards &amp; will be approved by Tata Power.</p>	<p>Bidder shall submit documents during bid submission, certifying Make, Type etc of electrical accessories / material to be supplied.</p>
4	Safety	<p>The said package being High Risk Service job will undergo detailed Safety Evaluation. Bidder will have to qualify in various aspects like requirement of safety, officer, Tata Power skilled Development Institute (TPSDI) trained workmen, Certifications etc.</p>	<p>Safety Evaluation Requirement will be shared along with detailed RFQ documents.</p>
5	Capability of Handle Job financially if awarded	<p>Average Annual Turnover of the bidder for last 03 years shall not be less than INR 100 Lakhs.</p>	<p>Profit and Loss statement, Balance Sheet, Cash flow Statements for the three preceding financial years duly audited and approved by Authorized Audit Firm/ CA.</p>
6	Site Visit	<p>Bidder to carry out Site Visit &amp; fully understand job scope. Bidder submitting bid without doing site visit shall be liable for Rejection.</p>	<p>Undertaking from Divisional Manager regarding completion of Site Visit.</p>

**Note:** Above Pre-qualification details need not be submitted at this stage. These shall be required to be submitted along with bid submission. At this stage, Interested Vendors who fulfill above criteria need to participate in tender by paying tender fee and submitting authorization letter as detailed in section “B” above.

**D. Estimated Quantity: (BOM)**

- **East Circle BOQ:**

1.

<b>Price Bid for BoP System for 145kV outdoor GIS bay extension at Salsette RSS.</b>				
<b>Sr No</b>	<b>Item Description</b>	<b>Qty</b>	<b>UoM</b>	<b>GST</b>
	<b>SUPPLY PART</b>			
1	Supply for Baseframe of all LCP (3 Nos.), CRP ( 3Nos.), Automation ( 1no.), Communicatio Panel (1 No.), Sub ACDB(1 No.), Sub DCDB (1No.), Lighting DB etc.	1	Lot	18%
2	Supply for Earthing of following equipment's as per Standard specification of Earthing and Lightning system:  a. Extension of existing earthing copper conductors for 3 nos of 110kV GIS Bays b. Earthing for LCP c. Earthing PAC panels d. Treated Earth pit for 3 No's of LA. e. Sub ACDB and DCDB f. Cable carrier system g. Supports structures, Mis. Panels etc  Note: 1. Supply of exothermic joint material required for earthing system is in bidder scope of work 2. Connecting of all above equipment and system earthing to nearest earthing grid with risers as per Standard specification is in bidder scope of work.	1	Lot	18%
3	Supply of associated material for Tapping of AC source - 1 and 2 from Incomer - 1 and 2 of existing 415 V Main ACDB Cable rating - 1.1 kV 4C x 50 sqmm Conductor, XLPE AR FRLS	1	Lot	18%
4	Supply of Outdoor Sub ACDB a) 2 nos of 415V AC, 200 A Incoming-1 and 2 feeders b) 1 no of 415V AC, 200 A Bus Coupler. c) 4 nos of 415V AC,63 A Outgoing feeders d) 4 nos of 415V AC,32 A Outgoing feeders Note - 20% spare Outgoing feeder of each rating shall be provided.	1	No	18%
5	Supply of associated material for Tapping of DC source - 1 and 2 from Incomer - 1 and 2 of existing 110V Main DCDB Cable rating - 1.1 KV 2R X 1C x 50 SQ MM Cu Conductor, XLPE AR FRLS	1	Lot	18%
6	Supply of Sub DCDB (Copper Bus bar) 1) 02 nos of 110 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 1 nos of 110 V DC, 63 A Bus Coupler. 3) 4 nos of 110V DC, 32 A Outgoing feeders for LCC and CRP. 4) 8 nos of 110 V DC, 16 A Outgoing feeders for Protection and Automation. Note - 20% spare Outgoing feeder of each rating shall be provided.	1	No	18%

7	Supply of Outdoor Lighting DB. 1) 2 nos of 415V AC, 32 A Incoming-1 and 2 feeders 2) 4 nos.of 32 A RCBO Outgoing feeder 3) 6 nos of 230V AC, 20 A Outgoing feeders 4) 8 nos of 230V AC, 10 A Outgoing feeders	1	No	18%
8	Supply of following cables is in bidders scope:	1	Lot	18%
i	2 C x 4 sq.mm	324	Mtr	18%
ii	1 C x 50 sq.mm	1800	Mtr	18%
iii	4C x 50 sq.mm	900	Mtr	18%
iv	4Cx 300 sq.mm aluminium	1500	Mtr	18%
9	Supply for fire supression system with Alarm for LCP, PAC, etc Panels.	1	Lot	18%
10	Supply for associated Clamps and Connectors for 145kV LA, BPI and CSE.	1	Lot	18%
11	Supply of fire-retardant paint for power cable	1	Lot	18%
12	Supply for ISI marked Insulating mat for LCP, Protection, Automation and communication panels and GIS	1	Lot	18%
13	Supply of complete lighting system for Outdoor GIS, adjacent switchyard area as per standard specification.	1	Lot	18%
14	Modification and Shifting of existing cable cables and control cable trays at Cable basement	1	Lot	18%
15	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%
16	Supply of Safety Equipments: 1) Boards • EHV GIS SLD boards for complete station. • SLD LOTO Key boards with Box and Locking arrangement. • Tool arrangement boards. 2) LOTO accessories. 3) Safety Signage boards. 4) Safety tools & tackles.	1	Lot	18%

<b>Price Bid for BoP System for 145kV outdoor GIS bay extension at Mankhurd RSS.</b>				
<b>Sr No</b>	<b>Item Description</b>	<b>Qty</b>	<b>UoM</b>	<b>GST</b>
<b>SUPPLY PART</b>				
1	Supply for Baseframe of all LCP (1 No), CRP ( 1No.), Automation ( 1no.), Communicatio Panel (1 No.), Sub ACDB(1 No.), Sub DCDB (1No.), Lighting DB etc.	1	Lot	18%
2	Supply for Earthing of following equipments as per Standard specifiatio of Earthing and Lightning system:  a. Extension of existing earthing copper conductors for 1 nos of 110kV GIS Bays b. Earthing for LCP c. Earthing PAC panels d. Sub ACDB and DCDB e. Cable carrier system f. Supports structures, Mis. Panels etc  Note: 1. Supply of exothermic joint material required for earthing system is in bidder scope of work 2. Connecting of all above equipment and system earthing to nearest earthing grid with risers as per Standard specification is in bidder scope of	1	Lot	18%

	work.			
3	Supply of following cables is in bidders scope:	1	Lot	18%
i	2 C x 4 sq.mm	2880	Mtr	18%
ii	1 C x 50 sq.mm	1200	Mtr	18%
iii	12C x2.5 sq.mm	1320	Mtr	18%
iv	4C x50 sq.mm	720	Mtr	18%
v	4C x2.5 sq.mm	720	Mtr	18%
vi	4Cx 300 sq.mm aluminium	1000	Mtr	18%
4	Supply for ISI marked Insulating mat for LCP, Protection, Automation and communication panels and GIS.	1	Lot	18%
5	Supply for fire supression system with Alarm for LCP, PAC, etc Panels.	1	Lot	18%
6	Supply for associated Clamps and Connectors for 145kV LA, BPI and CSE.	1	Lot	18%
7	Supply of complete lighting system for Outdoor GIS, adjacent switchyard area as per standard specification.	1	Lot	18%
8	Supply of fire-retardant paint for power cable	1	Lot	18%
9	Modification and Shifting of existing cables and control cable trays	1	Lot	18%
10	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%
11	Supply of Safety Equipments: 1) Boards • EHV GIS SLD boards for complete station. • SLD LOTO Key boards with Box and Locking arrangement. • Tool arrangement boards. 2) LOTO accessories. 3) Safety Signage boards. 4) Safety tools & tackles.	1	Lot	18%

Price Bid for BoP System and Services for addition of Capacitor bank at Salsette				
Sr No.	Item Description	Unit	Quantity	GST
<b>A</b>	<b>Capacitor Bank</b>			
1	Unloading, shifting to storage at site and then shifting from place of storage to erection location - Capacitor banks and its associated equipment (Series reactor, NCT, VT, Lightning arrestor, Bus post insulators, structures clamps, connectors, busbar, conductor etc.)- Clause No. A3.3.I-Services scope	LOT	1	18%
2	Erection, installation and commissioning as per OEM instructions- Capacitor banks and its associated equipment (Series reactor, NCT, VT, Lightning arrestor, Bus post insulators, structures clamps, connectors, busbar, conductor etc.)-Clause No. A3.3.I-Services scope	LOT	1	18%
3	All installation, hardwares like GI nut bolts, washers & consumables like welding rod, cutting wheel, drilling equipment etc.	LOT	1	18%
4	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
i	4 sq.mm, 4C, copper	meter	1800	18%
5	Minor Civil modification to be carried out, if required	Lot	1	18%
6	SITC - Earthing for capacitor bank and associated equipment, fencing, support structures etc.	lot	1	18%
7	SITC-HV cable terminations and CSE	lot	1	18%

8	supply and services of clamps and connectors for CSE	Nos	6	18%
9	Capacitor bank area lighting. Complete Design and engineering for lighting system is in bidder scope of work. Alongwith complete cable (SITC) scope MLDB onwards.	lot	1	18%
10	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification	Lot	1	18%
10.1	Supply of Cable carrier system Ladder type. (width: 150mm, depth: 80mm)	Mtr	50	18%
10.2	Supply of Cable carrier system perforated type. (width: 150mm, depth: 80mm)	Mtr	250	18%
11	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	100	18%
12	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%
13	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	LOT	1	18%

<b>Price Bid for BoP System and Services for replacement of MV GIS at Mankhurd</b>				
<b>Sr No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>GST</b>
<b>A</b>	<b>Mankhurd</b>			
1	Unloading of MV GIS switchgear, shifting to storage at site then shifting from place of storage to erection location of GIS panels under supervision of GIS OEM as per specification- Clause No. A.3.2.2- Services scope	Nos	22	18%
2	Unloading, shifting to storage at site and then shifting from place of storage to erection location along with erection, installation and commissioning of automation panels, remote control panels and metering panels. as per specification- Clause No. A.3.2.4-Services scope	Nos	12	18%
3	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
i	6 sq.mm., 4C, Copper cable	meter	4800	18%
ii	2.5 sq.mm, 14C, copper	meter	9000	18%
iii	4 sq.mm, 4C, copper	meter	8700	18%
iv	2.5 sq.mm, 4C Copper	meter	6000	18%
v	2.5 sq.mm, 7C Copper	meter	5400	18%
vi	Unarmoured CAT6 UTP Cable	meter	300	18%
vii	Armoured CAT6 UTP Cable	meter	500	18%
viii	4P X 0.36 Sq. mm armoured multistrand pair, overall shielded, for integration of MFM and other IEDs	meter	1000	18%
ix	4P X 0.36 Sq. mm unarmoured multistrand pair, overall shielded, for integration of MFM and other IEDs	meter	250	18%
x	8 Core Armoured Multi-mode Fibre Optic Cable	meter	2000	18%
4	Laying, splicing and termination of free issue fiber & communication cables as per automation and communication requirement (Between GIS, automation panel etc.)	Lot	1	18%
5	Decommissioning and removal of existing 5A STU meters, unloading, shifting to storage at site and then shifting from place of storage to erection location, installation, wiring and commissioning of meters in new / existing metering panels	Nos.	8	18%

6	Installation of 1A STU meters in STU metering panel by connecting CT, VT, AC, DC & communication cables in line with approved scheme in existing STU panels.	Nos.	1	18%
7	Supply and services of associated material for Tapping of AC source - 1 and 2 from Incomer - 1 and 2 of existing 415 V Main ACDB Cable rating - 1.1 kV 4C x50 sqmm cu Conductor, XLPE AR FRLS Approx. distance- 600 Mtr.	Lot	1	18%
8	Supply and services of Outdoor Sub ACDB a) 2 nos of 415V AC, 200 A Incoming-1 and 2 feeders b) 1 no of 415V AC, 200 A Bus Coupler. c) 8 nos of 415V AC,63 A Outgoing feeders d) 4 nos of 415V AC,40 A Outgoing feeders e)8 nos of 415V AC,16 A Outgoing feeders Note - 20% spare Outgoing feeder of each rating shall be provided.	No	1	18%
9	Supply and services of associated material for Tapping of DC source - 1 and 2 from Incomer - 1 and 2 of existing 110V Main DCDB Cable rating - 1.1 KV 2R X 1C x 50 SQ MM Cu Conductor, XLPE AR FRLS Approx. distance- 1000Mtr	Lot	1	18%
10	Supply and services of Sub DCDB (Copper Bus bar) 1) 02 nos of 110 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 1 nos of 110 V DC, 63 A Bus Coupler. 3) 4 nos of 110V DC, 32 A Outgoing feeders for LCC and CRP. 4) 12 nos of 110 V DC, 16 A Outgoing feeders for Protection and Automation. Note - 20% spare Outgoing feeder of each rating shall be provided.	No	1	18%
11	Supply and services of associated material for Tapping of DC source - 1 and 2 from Incomer - 1 and 2 of existing 48 V Main DCDB Cable rating - 1.1 KV 2R X 1C x 16 SQ MM Cu Conductor, XLPE AR FRLS Approx. distance- 1000Mtr	Lot	1	18%
12	Supply and services of Sub DCDB (Copper Bus bar) 1) 02 nos of 48 V DC, 32 A Incoming-1 and 2 feeders for Sub DCDB. 2) 1 nos of 48 V DC, 32 A Bus Coupler. 3) 10 nos of 48 V DC, 16 A Outgoing feeders for LCC and CRP. 4) 4 nos of 48 V DC, 10 A Outgoing feeders for Protection and Automation. Note - 20% spare Outgoing feeder of each rating shall be provided.	No	1	18%
13	Supply and services of UPS DB. 1) 2 nos of 230 V AC, 32 A Incoming-1 and 2 feeders 2)1 No of 230 V Bus Coupler 3) 10 nos of 230V AC, 20 A Outgoing feeders	No	1	18%
14	Modification work along with required material supply, in existng DCDB for Tapping of DC Source-1 and Source-2 to the new sub- DCDB	LOT	1	18%
15	SITC Sub 415V MLDB(Aluminium Bus bar) with 2 nos. of buses- 3Ph-4 wire, TPN, STC: 25KA for 1 sec. – with Following configuration: I/C: 2nos: 63 A B/C: 1 no.: 63A O/g: 63A:2 Nos, 32 A: 4 nos, 16A: 4 Nos.,	Nos	1	18%
16	SITC Emergency Lighting DB (Aluminium Bus bar) – for Complete new outdoor cabin spare	nos	1	18%
17	Earthing and Lightning Protection system			
17.1	SITC Earthing system for the entire 33 kV building as per standard specification	lot	1	18%

17.2	<p>1. Earth ring shall be formed surrounding the 33kV GIS building as per IEEE, IS 3043 and Tata Power standards specifications. 2 x 300 sqmm. flexible multi strand copper conductor shall be used for formation of earth ring. This ring shall be connected to existing switching station's earth mat at 2 distinct locations. Earthing of all equipment shall be done considering the equipment fault level and Tata Power standard specifications.</p> <p>2. Design and engineering of complete earthing system for this project is in bidder scope of work. The bidder shall submit the Earthing design calculations calculated in CDGES software only for approval.</p>	lot	1	18%
18	<p>SITC Lighting system for the entire building including MLDBs, Lighting DBs etc as per standard specification.</p> <p><b>Complete Design and engineering for lighting system is in bidder scope of work.</b></p> <p><b>Alongwith complete cable (SITC) scope MLDB onwards.</b></p>	LOT	1	18%
19	<p>SITC Lightning protection system for the building as per standard. Complete Design and engineering for lighting system is in bidder scope of work. Also Bidder to consider lightning mast requirement as per approved calculations.</p>	lot	1	18%
20	<p>Supply, laying and erection of cable carrier system along with supply and erection of cable trays &amp; its support structures as per specification</p>	Lot	1	18%
20.1	<p>Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)</p>	Mtr	600	18%
20.2	<p>Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)</p>	Mtr	600	18%
21	<p>SITC Public Address system</p>	nos	1	18%
22	<p>Boards at GIS floor</p>	lot	1	18%
23	<p>EHV/MV/LV SLD boards for complete station</p>	lot	1	18%
24	<p>Tool arrangement boards</p>	lot	1	18%
25	<p>LOTO accessories 1 lot</p>	lot	1	18%
26	<p>Safety signage board 1 lot</p>	lot	1	18%
27	<p>Supply and installation of metal nameplates per feeder as per Tata Power standard requirement as per specification</p>	Nos.	66	18%
28	<p>Supply, erection and installation of base frames along with modification of false flooring panels as per specifications</p>	Nos	12	18%
29	<p>i) Supply and modification of transformer LV cable box's gland plates, ii) gland plate modifications for metering, automation and RCP panels and supply of cable glands.</p>	LS	Lumpsum	18%
30	<p>Supply of ISI marked 33 kV and 1.1 kV insulating mats as per IS 15652 as per specifications</p>	SQMT	45	18%
31	<p>Supply and services required for Fire extinguisher, fire spray system and fire detector system along with required modification in existing system with necessary accessories</p>	lot	1	18%
32	<p>Supply and services for Fire retardant paint for 33 kV cables</p>	SQMT	660	18%
33	<p>Supply and services for control cable tags at both ends of control cables as per TPC standard ( steel plate with engraving )</p>	LS	Lumpsum	18%
34	<p>Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work</p>	Man days	200	18%
35	<p>Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.</p>	LS	Lumpsum	18%
36	<p>Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.</p>	LOT	1	18%

37	Phase wise dismantling of existing 33kV AIS switchgear along with all associated primary secondary systems and equipments and shifting to store location indicated by division manager	Nos.	15	18%
38	Transport and handling over in good condition the above dismantled equipment to location assigned by the division manager	LS	Lumpsum	18%
39	Removel and shifting of control cables of old AIS and associated auxillary panels (6000 Mtr)	Au	1	18%
40	Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list:  1. 2 C x 16 sq.mm -600 Meter 2. 4 C x 25 sq.mm-600 Meter	LOT	1	18%

**Price Bid for BoP Services for various distribution type transformers @ Salsette & Mankhurd**

Sr No.	Item Description	Unit	Quantity	GST
<b>A</b>	<b>Scope of work for Transformers replacement at Existing location: 02 nos at Salsette and 02 nos at Mankhurd</b>			
A.1	Complete services scope of work for dismantling of existing transformer as per specifications	EA	4	18%
A.2	Complete services scope of work for unloading, erection and commissioing of transformer as per specifications	EA	4	18%
A.3	Services for laying and installation of earth conductors, control cables etc as per specifications	Lot	4	18%
A.4	Survey of transformer yard, preparation of transformer's plan and section drawing as per site condition in Auto Cad format	EA	4	18%

- **South Circle BOQ:**

**Price Bid for BoP System of 220 kV GIS at Tata Power Dharavi Receiving Station**

Sr No	Item Description	Qty	UoM	GST
	<b>SUPPLY PART</b>			
1	A) Tapping of DC Source-1 and Source-2 form existing 220 V Main DCDB and connection to the new sub- DCDB with associated accessories and follwoing details: Supply of Indoor (IP54) wall mounted 220V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no. 1) 02 nos of 220 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 220 V DC, 63 A Bus Coupler. 3) 12 nos of 220 V DC, 32 A Outgoing feeders for LCC and CRP.  Material required for termination of above DC cable is in bidders scope.	1	no.	18%

2	<p>A) Tapping of DC Source-1 and Source-2 form existing 48V Main DCDB and connection to the new sub- DCDB with associated accessories and following details:  Supply of Indoor (IP54) wall mounted 48V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no.  1) 02 nos of 48 V DC, 32 A Incoming-1 and 2 feeders for Sub DCDB.  2) 01 nos of 48 V DC,32 A Bus Coupler.  3) 06 nos of 48V DC, 16 A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above DC cable is in bidders scope.</p>	1	no.	18%
3	<p>A) Tapping of AC Source-1 and Source-2 form existing 415V Main ACDB and connection to the new sub- ACDB with associated accessories and following details:  Supply of Indoor (IP54) wall mounted 415V Sub ACDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no.  1) 02 nos of 415 V AC, 63 A Incoming-1 and 2 feeders for Sub ACDB.  2) 01 nos of 415 V AC, 63 A Bus Coupler.  3) 08 nos of 415 V AC, 16 A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above AC cable is in bidders scope.</p>	1	no.	18%
4	<p>Supply of Baseframe as per Specification for:  2 nos.: LCP (800 mm x 800 mm),  2 nos:CRP (800 mm x 800 mm)  1 no. Automation Panels.  Floor tiles modification for CRP base frame &amp; reinstatement is in scope of work.</p>	1	Lot	18%
5	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	100	Mtr	18%
6	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	200	Mtr	18%
7	Earthing:Material required for termination of earthing conductor is in bidders scope.			
7.1	<p>Breaking of concrete and Extension of existing earthing copper condutors grid proposed 3 Nos of 245 kV GIS Bays.  Supply of copper material for earthing grid and connection to 245 kV GIS bays as per the Toshiba GIS drawing and restatement of concrete slab is in the bidders scope.  Earthing for 2 nos of LCP, 3 Nos. PAC panels, 2 nos. Sub DCDB,1 no. ACDB, Cable trays and EHV power cable etc and connecting to nearest earthing grid with risers as per Standard specification.</p>	1	Lot	18%
7.2	0.35 sqinch multi-strand copper conductor	500	Meter	18%
7.3	3 meter long, 20mm Diameter Solid copper (97% conductivity, hard drawn) Rod	4	Nos	18%
7.4	Supply of Effective & solid earthing system along with Pits installation	1	Lot	18%
7.5	Other misc. earth conductor supply	2	Lot	18%
7.6	Supply of exothermic material required for earthing joint	1	Lot	18%
8	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%
9	<p>Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list:  1. 4 C x 1.5 sq.mm -1920 Meter  2. 7 C x 1.5 sq.mm - 960 Meter  3. 2 C x 4 sq.mm - 2640 Meter  4. 2 C x 16 sq.mm - 1400 Meter  5. 4 C x 25 sq.mm-850 Meter</p>	1	Lot	18%

10	Supply of Safety Equipments: 1) Boards • EHV/LV SLD boards for station. • SLD LOTO Key boards. • Bay Marking • Insulating mats. 2) LOTO accessories.	1	Lot	18%
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**TOTAL SUPPLY**

Sr No	Item Description	Qty	UoM	GST
	<b>SERVICE PART</b>			
1	Services for installation of 220V DCDB	1	Lot	18%
2	Services for installation of 48V DCDB	1	Lot	18%
3	Services for installation of 415V, ACDB	1	Lot	18%
4	Services for Laying & termination services for all required AC/DC supply cables, control cables, Instrumentation Cables and Modbus communication cables, supply of all accessories required and SCADA integration for following cables: (Please note that, billing shall be done as per actual quantities laid, whether less or more than the specified quantities) Services for Laying and Termination of cable along with cable trays and associated material is in bidders scope (Note: LV Power cables (DC System), Copper conductor, XLPE, Armored (1.1 kV Class) are as follows as per Standard Specification (upto 16 sq.mm cable shall be with copper conductor and above 16 sq.mm shall be Aluminium Conductor) <b>shall be free issued by Tata Power.</b> )	1	Lot	18%
4.1	4 C x 4 Sq.mm	13665	Mtr	18%
4.2	2 C x 2.5 sq.mm	13665		18%
4.3	4 C x 1.5 sq.mm	13665		18%
4.4	7 C x 1.5 sq.mm	13665		18%
4.5	14 C x 1.5 sq.mm	13665		18%
4.6	2 C x 4 sq.mm	13665		18%
4.7	2C x 16 sq.mm	13665		18%
4.8	4C x 25 sq.mm	13665		18%
4.9	4Cx6 Sq.mm	13665		18%
4.10	14Cx2.5 Sq.mm	13665		18%
4.11	2Cx6 Sq.mm	13665		18%
4.12	4Cx6 Sq.mm	13665		18%
4.13	Communication Cable laying			
a	12 core Single mode armoured FO-cable	1000	Mtr	18%
b	96 core Single mode armoured FO-cable	500	Mtr	18%
c	Patch chord laying in flexible conduit in control room, dressing and tagging	50	Nos	18%
5	Services for Installation of 3 Nos of Protection, Automation and Communication Panels (PAC).	1	Lot	18%
6	Services of Baseframe for LCP(2 Nos) (800 mm x 800 mm), CRP (2 Nos)(800 mm x 800 mm) and Automation panel (1 No). Material required for termination of earthing conductor is in bidders scope.	1	Lot	18%

7	Services for Installation and commissioning of Cable Carrier system-Ladder type. (width: 600mm, depth: 100mm)	100	Mtr	18%
8	Services for Installation and commissioning of Cable Carrier system-perforated type. (width: 600mm, depth: 100mm)	100	Mtr	18%
9	Services of installation of earth conductor along with exothermic welding, lugs, nuts, bolts, etc.	1	Lot	18%
10	Services for Effective & solid earthing system along with Pits installation	1	Lot	18%
11	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	1	Lot	18%
12	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 245kV GIS bays Project.	1	Lot	18%
13	Installation of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%
14	Installation of following Safety Equipments: 1) Boards • EHV/LV SLD boards for station. • SLD LOTO Key boards. • Bay Marking • Insulating mats. 2) LOTO accessories.	1	Lot	18%
15	Manpower for handling different activities	100	Mandays	18%
16	Services for obtaining Statutory approval	1	Lot	18%

**TOTAL SERVICE**

<b>Price Bid for BoP System of 220 kV GIS at Tata Power Backbay Receiving Station</b>				
Sr No	Item Description	Qty	UoM	GS T
	<b>SUPPLY PART</b>			
1	A) Tapping of DC Source-1 and Source-2 from existing 220 V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 220V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxiliary room along with associated materials as per specification clause no. 1) 02 nos of 220 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 220 V DC, 63 A Bus Coupler. 3) 06 nos of 220 V DC, 32 A Outgoing feeders for LCC and CRP.  Material required for termination of above DC cable is in bidders scope.	1	no.	18%
2	A) Tapping of DC Source-1 and Source-2 from existing 48V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 48V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxiliary room along with associated materials as per specification clause no. 1) 02 nos of 48 V DC, 32 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 48 V DC, 32 A Bus Coupler. 3) 04 nos of 48V DC, 16 A Outgoing feeders for LCC and CRP.  Material required for termination of above DC cable is in bidders scope.	1	no.	18%

3	<p>A) Tapping of AC Source-1 and Source-2 form existing 415V Main ACDB and connection to the new sub- ACDB with associated accessories and following details:  Supply of Indoor (IP54) wall mounted 415V Sub ACDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no.  1) 02 nos of 415 V AC, 32 A Incoming-1 and 2 feeders for Sub ACDB.  2) 01 nos of 415 V AC, 32 A Bus Coupler.  3) 04 nos of 415 V AC, 32A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above AC cable is in bidders scope.</p>	1	no.	18%
4	<p>Supply of Baseframe as per Specification for:  1 nos.: LCP (800 mm x 800 mm),  1 nos:CRP (800 mm x 800 mm)  Floor tiles modification for CRP base frame &amp; reinstatement is in scope of work.</p>	1	Lot	18%
5	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	50	Mtr	18%
6	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	100	Mtr	18%
7	Earthing			
7.1	<p>Breaking of concrete and Extension of existing earthing copper condutors grid proposed 1 Nos of 245 kV GIS Bays.  Supply of copper material for earthing grid and connection to 245 kV GIS bays as per the Toshiba GIS drawing and restatement of concrete slab is in the bidders scope.  Earthing for 1 nos of LCP, 1Nos. PAC panels, 2 nos. Sub DCDB,1 no. ACDB, Cable trays and EHV power cable etc and connecting to nearest earthing grid with risers as per Standard specification.</p>	1	Lot	18%
7.2	Supply of exothermic material required for earthing joint	1	Lot	18%
8	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%
9	<p>Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list:  1. 4 C x 1.5 sq.mm -1440 Meter  2. 7 C x 1.5 sq.mm - 720 Meter  3. 2 C x 4 sq.mm - 2030 Meter  4. 2 C x 16 sq.mm - 1200 Meter  5. 4 C x 25 sq.mm-600 Meter</p>	1	Lot	18%
10	<p>Supply of Safety Equipments:  1) Boards  • EHV/LV SLD boards for station.  • SLD LOTO Key boards.  • Bay Marking  • Insulating matts.  2) LOTO accessories.</p>	1	Lot	18%

**TOTAL SUPPLY**

Sr No	Item Description	Qty	UoM	GS T
	<b>SERVICE PART</b>			
1	Services for installation of 220V DCDB	1	Lot	18%
2	Services for installation of 48V DCDB	1	Lot	18%

3	Services for installation of 415V, ACDB	1	Lot	18%
4	Services for Laying & termination services for all required AC/DC supply cables, control cables, Instrumentation Cables and Modbus communication cables, supply of all accessories required and SCADA integration for following cables: (Please note that, billing shall be done as per actual quantities laid, whether less or more than the specified quantities) Services for Laying and Termination of cable along with cable trays and associated material is in bidders scope (Note: LV Power cables (DC System), Copper conductor, XLPE, Armored (1.1 kV Class) are as follows as per Standard Specification (upto 16 sq.mm cable shall be with copper conductor and above 16 sq.mm shall be Aluminium Conductor) <b>shall be free issued by Tata Power.</b> )	1	Lot	18%
4.1	4 C x 4 Sq.mm	10478	Mtr	18%
4.2	2 C x 2.5 sq.mm	10478		18%
4.3	4 C x 1.5 sq.mm	10478		18%
4.4	7 C x 1.5 sq.mm	10478		18%
4.5	14 C x 1.5 sq.mm	10478		18%
4.6	2 C x 4 sq.mm	10478		18%
4.7	2C x 16 sq.mm	10478		18%
4.8	4C x 25 sq.mm	10478		18%
4.9	Communication Cable laying			
a	12 core Single mode armoured FO-cable	500	Mtr	18%
b	96 core Single mode armoured FO-cable	250	Mtr	18%
c	Patch chord laying in flexible conduit in control room, dressing and tagging	500	Mtr	18%
5	Services for Installation of 3 Nos of Protection, Automation and Communication Panels (PAC).	1	Lot	18%
6	Services of Baseframe for LCP(1No.) (800 mm x 800 mm), CRP (1 No)(800 mm x 800 mm) Material required for termination of earthing conductor is in bidders scope.	1	Lot	18%
7	Services for Installation and commissioning of Cable Carrier system-Ladder type. (width: 600mm, depth: 100mm)	50	Mtr	18%
8	Services for Installation and commissioning of Cable Carrier system-perforated type. (width: 600mm, depth: 100mm)	100	Mtr	18%
9	Services of installation of earth conductor along with exothermic welding, lugs, nuts, bolts, etc.	1	Lot	18%
10	Services for Effective & solid earthing system along with Pits installation	1	Lot	18%
11	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	1	Lot	18%
12	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 245kV GIS bays Project.	1	Lot	18%
13	Installation of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%

14	Installation of following Safety Equipments: 1) Boards • EHV/LV SLD boards for station. • SLD LOTO Key boards. • Bay Marking • Insulating matts. 2) LOTO accessories.	1	Lot	18%
15	Manpower for handling different activities	80	Mandays	18%
16	Services for obtaining Statutory approval	1	Lot	18%

**TOTAL SERVICE**

<b>Price Bid for BoP System of 220 kV GIS at Tata Power Mahalaxmi Receiving Station</b>				
Sr No	Item Description	Qty	UoM	GST
<b>SUPPLY PART</b>				
1	<p>A) Tapping of DC Source-1 and Source-2 form existing 220 V Main DCDB and connection to the new sub- DCDB with associated accessories and follwoing details: Supply of Indoor (IP54) wall mounted 220V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no. 1) 02 nos of 220 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 220 V DC, 63 A Bus Coupler. 3) 12 nos of 220 V DC, 32 A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above DC cable is in bidders scope.</p>	1	no.	18%
2	<p>A) Tapping of DC Source-1 and Source-2 form existing 48V Main DCDB and connection to the new sub- DCDB with associated accessories and follwoing details: Supply of Indoor (IP54) wall mounted 48V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no. 1) 02 nos of 48 V DC, 32 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 48 V DC,32 A Bus Coupler. 3) 08 nos of 48V DC, 16 A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above DC cable is in bidders scope.</p>	1	no.	18%
3	<p>A) Tapping of AC Source-1 and Source-2 form existing 415V Main ACDB and connection to the new sub- ACDB with associated accessories and follwoing details: Supply of Indoor (IP54) wall mounted 415V Sub ACDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no. 1) 02 nos of 415 V AC, 63 A Incoming-1 and 2 feeders for Sub ACDB. 2) 01 nos of 415 V AC, 63 A Bus Coupler. 3) 08 nos of 415 V AC, 16 A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above AC cable is in bidders scope.</p>	1	no.	18%

4	Supply of Baseframe as per Specification for: 2 nos.: LCP (800 mm x 800 mm), 2 nos:CRP (800 mm x 800 mm) 1 no. Automation Panels. Floor tiles modification for CRP base frame & reinstatement is in scope of work.	1	Lot	18%
5	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	50	Mtr	18%
6	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	100	Mtr	18%
7	Earthing			
7.1	Breaking of concrete and Extension of existing earthing copper conductors grid proposed 2 Nos of 245 kV GIS Bays. Supply of copper material for earthing grid and connection to 245 kV GIS bays as per the Toshiba GIS drawing and restatement of concrete slab is in the bidders scope. Earthing for 2 nos of LCP, 3 Nos. PAC panels, 2 nos. Sub DCDB, 1 no. ACDB, Cable trays and EHV power cable etc and connecting to nearest earthing grid with risers as per Standard specification.	1	Lot	18%
7.2	Supply of exothermic material required for earthing joint	1	Lot	18%
8	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%
9	Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list: 1. 4 C x 1.5 sq.mm -1920 Meter 2. 7 C x 1.5 sq.mm - 960 Meter 3. 2 C x 4 sq.mm - 2640 Meter 4. 2 C x 16 sq.mm - 1400 Meter 5. 4 C x 25 sq.mm-600 Meter	1	Lot	18%
10	Supply of Safety Equipments: 1) Boards • EHV/LV SLD boards for station. • SLD LOTO Key boards. • Bay Marking • Insulating matts. 2) LOTO accessories.	1	Lot	18%

**TOTAL SUPPLY**

Sr No	Item Description	Qty	UoM	GST
	<b>SERVICE PART</b>			
1	Services for installation of 220V DCDB	1	Lot	18%
2	Services for installation of 48V DCDB	1	Lot	18%
3	Services for installation of 415V, ACDB	1	Lot	18%
4	Services for Laying & termination services for all required AC/DC supply cables, control cables, Instrumentation Cables and Modbus communication cables, supply of all accessories required and SCADA integration for following cables: (Please note that, billing shall be done as per actual quantities laid, whether less or more than the specified quantities) Services for Laying and Termination of cable along with cable trays and	1	Lot	18%

	associated material is in bidders scope (Note: LV Power cables (DC System), Copper conductor, XLPE, Armored (1.1 kV Class) are as follows as per Standard Specification (upto 16 sq.mm cable shall be with copper conductor and above 16 sq.mm shall be Aluminium Conductor) <b>shall be free issued by Tata Power.</b> )			
4.1	4 C x 4 Sq.mm	13450	Mtr	18%
4.2	2 C x 2.5 sq.mm	13450		18%
4.3	4 C x 1.5 sq.mm	13450		18%
4.4	7 C x 1.5 sq.mm	13450		18%
4.5	14 C x 1.5 sq.mm	13450		18%
4.6	2 C x 4 sq.mm	13450		18%
4.7	2C x 16 sq.mm	13450		18%
4.8	4C x 25 sq.mm	13450		18%
4.9	Communication Cable laying			
a	12 core Single mode armoured FO-cable	500	Mtr	18%
b	96 core Single mode armoured FO-cable	500	Mtr	18%
c	Patch chord laying in flexible conduit in control room, dressing and tagging	500	Mtr	18%
5	Services for Installation of 3 Nos of Protection, Automation and Communication Panels (PAC).	1	Lot	18%
6	Services of Baseframe for LCP(2 Nos) (800 mm x 800 mm), CRP (2 Nos)(800 mm x 800 mm) and Automation panel (1 No). Material required for termination of earthing conductor is in bidders scope.	1	Lot	18%
7	Services for Installation and commissioning of Cable Carrier system-Ladder type. (width: 600mm, depth: 100mm)	100	Mtr	18%
8	Services for Installation and commissioning of Cable Carrier system-perforated type. (width: 600mm, depth: 100mm)	200	Mtr	18%
9	Services of installation of earth conductor along with exothermic welding, lugs, nuts, bolts, etc.	1	Lot	18%
10	Services for Effective & solid earthing system along with Pits installation	1	Lot	118%
11	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	1	Lot	18%
12	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 245kV GIS bays Project.	1	Lot	18%
13	Installation of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	1	Lot	18%
14	Installation of following Safety Equipments: 1) Boards • EHV/LV SLD boards for station. • SLD LOTO Key boards. • Bay Marking • Insulating matts. 2) LOTO accessories.	1	Lot	18%
15	Manpower for handling different activities	80	Mandays	18%
16	Services for obtaining Statutory approval	1	Lot	18%

**TOTAL SERVICE**

Price Bid for BoP System and Services for replacement of MV GIS at Parel				
Sr No.	Item Description	Unit	Quantity	GST
A	<b>Parel</b>			

A1	Unloading of MV GIS switchgear, shifting to storage at site then shifting from place of storage to erection location of GIS panels under supervision of GIS OEM as per specification- Clause No. A.3.2.2- Services scope	Nos	12	18%
A2	Unloading, shifting to storage at site and then shifting from place of storage to erection location along with erection, installation and commissioning of automation panels, remote control panels and metering panels. as per specification- Clause No. A.3.2.4-Services scope	Nos	8	18%
A3	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification			
A3.1	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	Mtr	200	18%
A3.2	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	Mtr	300	18%
A4	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
i	6 sq.mm., 4C, Copper cable	meter	1344	18%
ii	2.5 sq.mm, 14C, copper	meter	2148	18%
iii	4 sq.mm, 4C, copper	meter	1440	18%
iv	2.5 SQMM, 4C Copper	meter	1056	18%
v	2.5 SQMM, 7C Copper	meter	864	18%
A5	Laying, splicing and termination of free issue fiber & communication cables as per automation and communication requirement (Between GIS, automation panel etc.)	Lot	1	18%
A6	Supply, Laying, excavation, reinstatement, brazing, termination of earthing strip and connecting it to the station EHV earth grid as per specifications			
i	GIS bays, MV power cables, DCDB and cable support structures - 2x0.2 sq. inch copper conductor	meter	80	18%
ii	RCP, Metring, UFLS, automation panels and cable carrier system - 0.2 sq. inch copper conductor	meter	50	18%
iii	Copper plates (150 x 150 x 10mm) for joints	Nos.	10	18%
iv	Supply of exothermic material required for earthing joint	Lot	1	18%
v	Other misc. earth conductor supply	Lot	1	18%
A7	Supply and installation of metal nameplates per feeder as per Tata Power standard requirement as per specification	Nos.	36	18%
A8	Supply, erection and installation of base frames along with modification of false flooring panels as per specifications	Nos	8	18%
A9	i) Supply and modification of transformer LV cable box's gland plates, ii) gland plate modifications for metering, automation and RCP panels and supply of cable glands.	LS	Lumpsum	18%
A10	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 33kV GIS bays Project.	LS	Lumpsum	18%
A11	Supply of ISI marked 33 kV and 1.1 kV insulating mats as per IS 15652 as per specifications	SQMT	30	18%
A12	Supply and services for Fire retardant paint for 33 kV cables	SQMT	420	18%
A13	Supply and services for control cable tags at both ends of control cables as per TPC standard ( steel plate with engraving )	LS	Lumpsum	18%
A14	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	200	18%
A15	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%

A16	<p>A) Tapping of DC Source-1 and Source-2 form existing 220 V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 220V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no. 1) 02 nos of 220 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 220 V DC, 63 A Bus Coupler. 3) 6 nos of 220 V DC, 32 A Outgoing feeders for 33kV GIS.</p> <p>Material required for termination of above DC cable is in bidders scope.</p>	No.	1	18%
A17	<p>A) Tapping of DC Source-1 and Source-2 form existing 48V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 48V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no. 1) 02 nos of 48 V DC, 32 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 48 V DC, 32 A Bus Coupler. 3) 06 nos of 48V DC, 16 A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above DC cable is in bidders scope.</p>	No.	1	18%
A18	Modification work along with required material supply, in existng DCDB for Tapping of DC Source-1 and Source-2 to the new sub-DCDB	LOT	1	18%
A19	<p>Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list:</p> <p>1. 2 C x 16 sq.mm-200 Meter 2. 4 C x 25 sq.mm-200 Meter</p>	LOT	1	18%
A20	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	LOT	1	18%
A21	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	LOT	1	18%
A22	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Mandays	50	18%
A23	2 nos. Transformer cable box modification for adapting total 12 nos. of 630A (4 runs per phase) 33kV Cables. Material required for modification of work is in bidder scope of work	Nos.	2	18%
A24	<p>Housekeeping and cleaning/removal of waste material like big rocks and excavated soil, solar panel pallets, plastic waste, wooden material &amp; any other scrap material at sites shall be removed/disposed from plant. It is complete liability of contractor for disposing of material undisputedly outside the plant area.</p>	LOT	1	18%

Price Bid for BoP System and Services for replacement of MV GIS at Mahalaxmi				
Sr No.	Item Description	Unit	Quantity	GST
	<b>Mahalaxmi</b>			
1	Unloading of MV GIS switchgear, shifting to storage at site then shifting from place of storage to erection location of GIS panels under supervision of GIS OEM as per specification- Clause No. A.3.2.2-Services scope	Nos	15	18%

2	Unloading, shifting to storage at site and then shifting from place of storage to erection location along with erection, installation and commissioning of automation panels, remote control panels and metering panels. as per specification- Clause No. A.3.2.4-Services scope	Nos	10	18%
3	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
	6 sq.mm., 4C, Copper cable	meter	4080	18%
	2.5 sq.mm, 14C, copper	meter	5640	18%
	4 sq.mm, 4C, copper	meter	5520	18%
	2.5 SQMM, 4C Copper	meter	4200	18%
	2.5 SQMM, 7C Copper	meter	3600	18%
	Laying, splicing and termination of free issue fiber & communication cables as per automation and communication requirement (Between GIS, automation panel etc.)	Lot	1	18%
4	AC system Auxiliaries			
4.1	SITC Sub 415V ACDB (Aluminium Bus bar) with 2 nos. of buses- 3Ph-4 wire, TPN, STC: 25KA for 1 sec. – 33kV GIS Floor with Following configuration: I/C: 2nos: 200 A B/C: 1 no.: 200A O/g: 100A:2 Nos, 63A:10 nos, 32 A: 6 nos, 16A: 6Nos., 6A: 5 nos., 200A: 2nos.	Nos	1	18%
4.2	SITC Sub 415V ACDB (Aluminium Bus bar) with 2 nos. of buses- 3Ph-4 wire, TPN, STC: 25KA for 1 sec. – 33kV GIS Floor with Following configuration: I/C: 2nos: 100 A B/C: 1 no.: 100A O/g: 63A:6 Nos, 6A: 7 nos.	Nos	1	18%
4.3	SITC Sub 415V MLDB(Aluminium Bus bar) with 2 nos. of buses- 3Ph-4 wire, TPN, STC: 25KA for 1 sec. – with Following configuration: I/C: 2nos: 63 A B/C: 1 no.: 63A O/g: 63A:2 Nos, 32 A: 4 nos, 16A: 4 Nos.,	Nos	1	18%
4.4	SITC Sub 230V AC UPSDB(Copper Bus bar) with 2 nos. of buses- 2Ph-2 wire, STC: 25KA for 1 sec. – with Following configuration: I/C: 2nos: 32 A B/C: 1 no.: 32A O/g: 32A:2 Nos, 10A: 12 Nos.	Nos	1	18%
4.5	Sub-ACDB HVAC room	Nos	1	18%
5	DC System			
5.1	SITC Sub 220V DCDB (copper Bus bar) with 2 nos. of buses- 2Ph- 2 wire, STC: 20KA for 1 sec. – 33kV GIS Floor with Following configuration: I/C: 2nos: 63 A B/C: 1 no.: 63A O/g: 63A:2 Nos, 32 A: 8 nos, 16A: 20 Nos.	Nos	1	18%

5.2	SITC Emergency Lighting DB (Aluminium Bus bar) – for Complete Building	nos	1	18%
5.3	SITC Sub 48V DCDB (copper Bus bar) with 2 nos. of buses- 2Ph-2 wire, STC: 20KA for 1 sec. – with Following configuration: I/C: 2nos: 32 A B/C: 1 no.: 32A O/g: 32 A: 2 nos, 16A: 2 Nos., 10A: 2nos., 6 A: 2 nos.	nos	1	18%
6	SITC Lighting system for the entire building including MLDBs, Lighting DBs etc as per standard specification. <b>Complete Design and engineering for lighting system is in bidder scope of work.</b> <b>Alongwith complete cable scope MLDB onwards.</b>	lot	1	18%
7	Earthing and Lightning Protection system	lot	1	
	SITC Earthing system for the entire 33 kV building as per standard specification	lot	1	18%
	1. Earth ring shall be formed surrounding the 33kV GIS building as per IEEE, IS 3043 and Tata Power standards specifications. 2 x 0.35 sq. inch flexible multi strand copper conductor shall be used for formation of earth ring. This ring shall be connected to existing switching station's earth mat at 2 distinct locations. Earthing of all equipment shall be done considering the equipment fault level and Tata Power standard specifications. 2. Design and engineering of complete earthing system for this project is in bidder scope of work. If bidder is not capable to meet this requirement, then bidder to take services from the JEFF engineering or equivalent vendor.			18%
8	SITC Lightning protection system for the building as per standard. Complete Design and engineering for lighting system is in bidder scope of work. Also Bidder to consider lightning mast requirement as per approved calculations.	lot	1	18%
9	Cable carrier system as per standard specification			
	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification	lot	1	18%
10	SITC Public Address system	nos	1	18%
11	Boards at GIS floor	lot	1	18%
12	EHV/MV/LV SLD boards for complete station	lot	1	18%
13	Tool arrangement boards	lot	1	18%
14	LOTO accessories 1 lot	lot	1	18%
15	Safety signage board 1 lot	lot	1	18%
16	Supply and installation of metal nameplates per feeder as per Tata Power standard requirement as per specification	Nos.	45	18%
17	Supply, erection and installation of base frames along with modification of false flooring panels as per specifications	Nos	10	18%
18	Supply and modification of transformer LV cable box's gland plates, gland plate modifications for metering, automation and RCP panels and supply of cable glands.	LS	Lumpsum	18%

19	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 33kV GIS bays Project.	LS	Lumpsum	18%
20	Supply of ISI marked 33 kV and 1.1 kV insulating mats as per IS 15652 as per specifications	SQMT	45	18%
21	Supply and services for Fire retardant paint for 33 kV cables			
	33kV, 1C, 630 sqmm, XLPE	SQMT	240	18%
	33kV, 3C, 400 sqmm, XLPE	SQMT	270	18%
22	Supply and services for control cable tags at both ends of control cables as per TPC standard ( steel plate with engraving )	LS	Lumpsum	18%
23	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	400	18%
24	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%
25	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	LOT	1	18%
26	2 nos. Transformer cable box modification for adapting total 12 nos. of 630A (4 runs per phase) 33kV Cables. Material required for modification of work is in bidder scope of work	Nos.	2	18%
27	Modification work along with required material supply, in existing ACDB and DCDB for Tapping of AC and DC Source-1 and Source-2 to the new sub- DCDB or ACDB	LOT	1	18%
28	Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list: 1. 4 C x 25 sq.mm, Al -2400 Meter 2. 4C x 50 sq.mm, Al -400 Meter 3. 4C x 300 sq.mm, AL -500 Meter	LOT	1	18%
29	Housekeeping and cleaning/removal of waste material like big rocks and excavated soil, solar panel pallets, plastic waste, wooden material & any other scrap material at sites shall be removed/disposed from plant. It is complete liability of contractor for disposing of material undisputedly outside the plant area.	LOT	1	18%

**Price Bid for BoP System and Services for addition of Capacitor bank at Dharavi**

Sr No.	Item Description	Unit	Quantity	GST
<b>A</b>	<b>Capacitor Bank</b>			
1	Unloading, shifting to storage at site and then shifting from place of storage to erection location - Capacitor banks and its associated equipment (Series reactor, NCT, VT, Lightning arrester, Bus post insulators, structures clamps, connectors, busbar, conductor etc.)-Clause No. A.3.1-Services scope	LOT	2	18%

2	Erection, installation and commissioning as per OEM instructions- Capacitor banks and its associated equipment (Series reactor, NCT, VT, Lightning arrestor, Bus post insulators, structures clamps, connectors, busbar, conductor etc.)-Clause No. A.3.1-Services scope	LOT	2	18%
3	All installation, hardwares like GI nut bolts, washers & consumables like welding rod, cutting wheel, drilling equipment etc.	LOT	2	18%
4	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
i	4 sq.mm, 4C, copper	meter	1200	18%
5	Minor Civil modification to be carried out	Lot	2	18%
6	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 33kV GIS bays Project.	Lot	2	18%
7	SITC - Earthing for capacitor bank and associated equipment, fencing, support structures etc.	lot	2	18%
8	SITC-MV cable terminations and cable supporting structure ( At Both end 33kV GIS and Capacitor bank end)	lot	2	18%
9	SITC-Fencing for Capacitor bank area	lot	2	18%
10	Capacitor bank area lighting. Complete Design and engineering for lighting system is in bidder scope of work. Alongwith complete cable (SITC) scope MLDB onwards.	lot	2	18%
11	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification	Lot	1	18%
11.1	Supply of Cable carrier system Ladder type. (width: 150mm, depth: 80mm)	Mtr	50	18%
11.2	Supply of Cable carrier system perforated type. (width: 150mm, depth: 80mm)	Mtr	250	18%
11.3	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	Mtr	250	18%
11.4	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	Mtr	400	18%
12	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	100	18%
13	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%
14	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	LOT	1	18%
15	Housekeeping and cleaning/removal of waste material like big rocks and excavated soil, solar panel pallets, plastic waste, wooden material & any other scrap material at sites shall be removed/disposed from plant. It is complete liability of contractor for disposing of material undisputedly outside the plant area.	LOT	1	18%

- **North Circle BOQ:**

Price Bid for BoP System and Services for replacement of MV GIS at Versova				
Sr No.	Item Description	Unit	Quantity	GST
A	Versova			

A1	Unloading of MV GIS switchgear, shifting to storage at site then shifting from place of storage to erection location of GIS panels under supervision of GIS OEM as per specification- Clause No. A.3.2.2-Services scope	Nos	5	18%
A2	Unloading, shifting to storage at site and then shifting from place of storage to erection location along with erection, installation and commissioning of automation panels, remote control panels and metering panels. as per specification- Clause No. A.3.2.4-Services scope	Nos	4	18%
A3	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification	Lot	1	18%
A3.1	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	Mtr	100	18%
A3.2	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	Mtr	200	18%
A4	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
i	6 sq.mm., 4C, Copper cable	meter	3000	18%
ii	2.5 sq.mm, 14C, copper	meter	3000	18%
iii	4 sq.mm, 4C, copper	meter	1000	18%
iv	2.5 SQMM, 4C Copper	meter	2000	18%
v	2.5 SQMM, 7C Copper	meter	2000	18%
A5	Laying, splicing and termination of free issue fiber & communication cables as per automation and communication requirement (Between GIS, automation panel etc.)	Lot	1	18%
A6	Supply, Laying, excavation, reinstatement, brazing, termination of earthing strip and connecting it to the station EHV earth grid as per specifications			
i	GIS bays, MV power cables, DCDB and cable support structures - 2x0.2 sq. inch copper conductor	meter	50	18%
ii	RCP, Metring, UFLS, automation panels and cable carrier system - 0.2 sq. inch copper conductor	meter	50	18%
iii	Copper plates (150 x 150 x 10mm) for joints	Nos.	5	18%
iv	Supply of exothermic material required for earthing joint	Lot	1	18%
v	Other misc. earth conductor supply	Lot	1	18%
A7	Supply and installation of metal nameplates per feeder as per Tata Power standard requirement as per specification	Nos.	15	18%
A8	Supply, erection and installation of base frames along with modification of false flooring panels as per specifications	Nos	4	18%
A9	i) Supply and modification of transformer LV cable box's gland plates, ii) gland plate modifications for metering, automation and RCP panels and supply of cable glands.	LS	Lumpsum	18%
A10	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 33kV GIS bays Project. - as per specification Clause No.3.2.9.	LS	Lumpsum	18%
A11	Supply of ISI marked 33 kV and 1.1 kV insulating mats as per IS 15652 as per specifications	SQMT	15	18%
A12	Supply and services for Fire retardant paint for 33 kV cables	SQMT	210	18%
A13	Supply and services for control cable tags at both ends of control cables as per TPC standard ( steel plate with engraving )	LS	Lumpsum	18%
A14	Decommissioning and removal of existing 5A STU meters as per specification- Clause No.3.2.10	LS	Lumpsum	18%
A15	Installation of 1A STU meters in STU metering panel as per specification Clause No.3.2.11	LS	Lumpsum	18%
A16	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	200	18%

A17	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%
A18	A) Tapping of DC Source-1 and Source-2 from existing 220 V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 220V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxiliary room along with associated materials as per specification clause no. 1) 02 nos of 220 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 220 V DC, 63 A Bus Coupler. 3) 4 nos of 220 V DC, 32 A Outgoing feeders for 33kV GIS.  Material required for termination of above DC cable is in bidders scope.	No.	1	18%
A19	A) Tapping of DC Source-1 and Source-2 from existing 48V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 48V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxiliary room along with associated materials as per specification clause no. 1) 02 nos of 48 V DC, 32 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 48 V DC, 32 A Bus Coupler. 3) 04 nos of 48V DC, 16 A Outgoing feeders for LCC and CRP.  Material required for termination of above DC cable is in bidders scope.	No.	1	18%
A20	Modification work along with required material supply, in existing DCDB for Tapping of DC Source-1 and Source-2 to the new sub- DCDB	LOT	1	18%
A21	Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list:  1. 2 C x 16 sq.mm- 400 Meter 2. 4 C x 25 sq.mm-400 Meter	LOT	1	18%
A22	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	LOT	1	18%
A23	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	LOT	1	18%
A24	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Mandays	50	0.18
A25	Housekeeping and cleaning/removal of waste material like big rocks and excavated soil, solar panel pallets, plastic waste, wooden material & any other scrap material at sites shall be removed/disposed from plant. It is complete liability of contractor for disposing of material undisputedly outside the plant area.	LOT	1	18%

Price Bid for BoP System and Services for replacement of MV GIS at Borivali				
Sr No.	Item Description	Unit	Quantity	GST
<b>A</b>	<b>Borivali</b>			
A1	Unloading of MV GIS switchgear, shifting to storage at site then shifting from place of storage to erection location of GIS panels under supervision of GIS OEM as per specification- Clause No. A.3.2.2-Services scope	Nos	7	18%
A2	Unloading, shifting to storage at site and then shifting from place of storage to erection location along with erection, installation and commissioning of automation panels, remote control panels and	Nos	4	18%

	metering panels. as per specification- Clause No. A.3.2.4-Services scope			
A3	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification	Lot	1	18%
A3.1	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	Mtr	100	18%
A3.2	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	Mtr	200	18%
A4	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
i	6 sq.mm., 4C, Copper cable	meter	2000	18%
ii	2.5 sq.mm, 14C, copper	meter	2000	18%
iii	4 sq.mm, 4C, copper	meter	1500	18%
iv	2.5 SQMM, 4C Copper	meter	1500	18%
v	2.5 SQMM, 7C Copper	meter	2000	18%
A5	Laying, splicing and termination of free issue fiber & communication cables as per automation and communication requirement (Between GIS, automation panel etc.)	Lot	1	18%
A6	Supply, Laying, excavation, reinstatement, brazing, termination of earthing strip and connecting it to the station EHV earth grid as per specifications			
i	GIS bays, MV power cables, DCDB and cable support structures - 2x0.2 sq. inch copper conductor	meter	50	18%
ii	RCP, Metring, UFLS, automation panels and cable carrier system - 0.2 sq. inch copper conductor	meter	50	18%
iii	Copper plates (150 x 150 x 10mm) for joints	Nos.	5	18%
iv	Supply of exothermic material required for earthing joint	Lot	1	18%
v	Other misc. earth conductor supply	Lot	1	18%
A7	Supply and installation of metal nameplates per feeder as per Tata Power standard requirement as per specification	Nos.	21	18%
A8	Supply, erection and installation of base frames along with modification of false flooring panels as per specifications	Nos	4	18%
A9	i) Supply and modification of transformer LV cable box's gland plates, ii) gland plate modifications for metering, automation and RCP panels and supply of cable glands.	LS	Lumpsum	18%
A10	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 33kV GIS bays Project.	LS	Lumpsum	18%
A11	Supply of ISI marked 33 kV and 1.1 kV insulating mats as per IS 15652 as per specifications	SQMT	15	18%
A12	Supply and services for Fire retardant paint for 33 kV cables	SQMT	240	18%
A13	Supply and services for control cable tags at both ends of control cables as per TPC standard ( steel plate with engraving )	LS	Lumpsum	18%
A14	Decommissioning and removal of existing 5A STU meters as per specification- Clause No.3.2.10	LS	Lumpsum	18%
A15	Installation of 1A STU meters in STU metering panel Clause No.3.2.11	LS	Lumpsum	18%
A16	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	200	18%
A17	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%

A18	<p>A) Tapping of DC Source-1 and Source-2 form existing 110 V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 110V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no.</p> <p>1) 02 nos of 110 V DC, 63 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 110 V DC, 63 A Bus Coupler. 3) 4 nos of 110 V DC, 32 A Outgoing feeders for 33kV GIS.</p> <p>Material required for termination of above DC cable is in bidders scope.</p>	No.	1	18%
A19	<p>A) Tapping of DC Source-1 and Source-2 form existing 48V Main DCDB and connection to the new sub- DCDB with associated accessories and following details: Supply of Indoor (IP54) wall mounted 48V Sub DCDB (Copper Bus bar) with baseframe (bottom cable entry) at Auxilary room along with associated materials as per specification clause no.</p> <p>1) 02 nos of 48 V DC, 32 A Incoming-1 and 2 feeders for Sub DCDB. 2) 01 nos of 48 V DC, 32 A Bus Coupler. 3) 04 nos of 48V DC, 16 A Outgoing feeders for LCC and CRP.</p> <p>Material required for termination of above DC cable is in bidders scope.</p>	No.	1	18%
A20	Modification work along with required material supply, in existng DCDB for Tapping of DC Source-1 and Source-2 to the new sub-DCDB	LOT	1	18%
A21	<p>Supply of following Power and Control Cable along with termination and associated accessories as per Tata Power Standard specification and Approved Vendor list:</p> <p>1. 2 C x 16 sq.mm- 200 Meter 2. 4 C x 25 sq.mm-200 Meter</p>	LOT	1	18%
A22	Supply of Miscellaneous Support Structures and fixtures for scope mentioned in specification.	LOT	1	18%
A23	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	LOT	1	18%
A24	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Mandays	50	18%
A25	<p>Housekeeping and cleaning/removal of waste material like big rocks and excavated soil, solar panel pallets, plastic waste, wooden material &amp; any other scrap material at sites shall be removed/disposed from plant. It is complete liability of contractor for disposing of material undisputedly outside the plant area.</p>	LOT	1	18%

**Price Bid for BoP System and Services for addition of Capacitor bank at Saki**

Sr No.	Item Description	Unit	Quantity	GST
<b>A</b>	<b>Capacitor Bank</b>			
1	Unloading, shifting to storage at site and then shifting from place of storage to erection location - Capacitor banks and its associated equipment (Series reactor, NCT, VT, Lightning arrestor, Bus post insulators, structures clamps, connectors, busbar, conductor etc.)-Clause No. A.3.1-Services scope	LOT	2	18%

2	Erection, installation and commissioning as per OEM instructions- Capacitor banks and its associated equipment (Series reactor, NCT, VT, Lightning arrestor, Bus post insulators, structures clamps, connectors, busbar, conductor etc.)-Clause No. A.3.1-Services scope	LOT	2	18%
3	All installation, hardwares like GI nut bolts, washers & consumables like welding rod, cutting wheel, drilling equipment etc.	LOT	2	18%
4	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
i	4 sq.mm, 4C, copper	meter	1200	18%
ii	Laying & termination services for CT/PT marshaling box (Junction box).	LOT	2	18%
5	Supply and installation of insulated earthing conductors routed from the terrace level down to the ground floor, including all necessary supports, saddles, and protective coverings as required. The conductors shall be securely connected to the main earth mat in accordance with relevant standards and project specifications to ensure continuity and effective grounding.	LOT	2	18%
5A	The earthing connection of all the equipment's shall be interconnected and connected to the main grid of the station by the means of 2 copper conductors of 300sqmm size, 97% conductivity as per IEEE 80, 2013 .	LOT	2	18%
6	Minor Civil modification to be carried out	Lot	2	18%
7	Preparation of SLD, Layouts including GIS plan section, Earthing Layout, cable tray layout and obtaining approval from Chief Electrical Inspector, Government of Maharashtra for execution and completion of 33kV GIS bays Project.	Lot	2	18%
8	SITC - Earthing for capacitor bank and associated equipment, (CT,PT,BPI,LA etc)	lot	2	18%
9	SITC-MV cable terminations and cable supporting structure (at cap bank end)	lot	2	18%
11	Capacitor bank area lighting. Complete Design and engineering for lighting system is in bidder scope of work. Alongwith complete cable (SITC) scope MLDB onwards.	lot	2	18%
12	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification	Lot	1	18%
12.1	Supply of Cable carrier system Ladder type. (width: 150mm, depth: 80mm)	Mtr	100	18%
12.2	Supply of Cable carrier system perforated type. (width: 150mm, depth: 80mm)	Mtr	250	18%
12.3	SITC- MV cable support structures at (33KV GIS end)	lot	2	18%
12.4	Supply of Cable carrier system Ladder type. (width: 600mm, depth: 100mm)	Mtr	100	18%
12.5	Supply of Cable carrier system perforated type. (width: 600mm, depth: 100mm)	Mtr	250	18%
13	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	100	18%
14	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%
15	Preparation of Interconnecting Cable Schedule (ICS) as per Tata Power Standard Format.	LOT	1	18%
16	Housekeeping and cleaning/removal of waste material like big rocks and excavated soil, solar panel pallets, plastic waste, wooden material & any other scrap material at sites shall be removed/disposed from plant. It is complete liability of contractor for disposing of material undisputedly outside the plant area.	LOT	1	18%

- **Kalyan Circle BOQ:**

<b>Price Bid for BoP System and Services for replacement of MV GIS at Panvel</b>				
<b>Sr No.</b>	<b>Item Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>GST</b>
1	Unloading of MV GIS switchgear, shifting to storage at site then shifting from place of storage to erection location of GIS panels under supervision of GIS OEM as per specification	Nos	15	18%
2	Unloading, shifting to storage at site and then shifting from place of storage to erection location along with erection, installation and commissioning of automation panels(3nos), and metering panels (3nos), remote control panels (3 nos)	Nos	9	18%
3	Services for laying and termination of free issued control cables Below given quantity are tentative, control cable laying services shall be charged as per actual cable laid (lesser or more than the tentative quantities indicated).			
3.1	2.5 sqmm, 4C, Copper	meter	4500	18%
3.2	2.5 sqmm, 14C, Copper	meter	2500	18%
3.3	2.5 sqmm, 7C, Copper	meter	2500	18%
3.4	4 sqmm, 4C, Copper	meter	4500	18%
3.5	6 sqmm, 4C, Copper	meter	3000	18%
3.6	Laying, splicing and termination of free issue fiber & communication cables as per automation and communication requirement (Between GIS, automation panel etc.)	Lot	1	18%
4	Metering Scope			
4.1	Decommissioning and removal of existing 5A STU meters, unloading, shifting to storage at site- Returning back to stores	Nos.	5	18%
	Unloading, shifting to storage site and then shifting from place of storage to erection location, installation, wiring and commissioning of meters in new / existing metering panels			
	SITC Total Panels – 03 nos	No	1	
	SITC Total Meters – 08 nos (Secure Apex 150)	No	8	
	ITC for free issue STU meters – 17 nos (As per STU)	No	17	
5	AC system Auxiliaries			
5.1	SITC Sub ACDB (Aluminium Bus bar) – 33kV GIS Floor	Nos	1	18%
6	DC System			
6.1	SITC 110 VDC Sub DCDB (Copper Bus bar) – 220 V Auxiliary	Nos	1	18%
6.2	SITC Emergency Lighting DB (Aluminium Bus bar) – for Complete Building	nos	1	18%
6.3	SITC 48 V DC Sub DCDB (Copper Bus bar) – Auxiliary room 1 no.	nos	1	18%
7	SITC Lighting system for the entire building including MLDBs, Lighting DBs, etc as per standard specification	lot	1	18%
8	Earthing and Lightning Protection system	lot	1	18%
8.1	SITC Earthing system for the entire 33 kV building as per standard specification			
8.2	Earth ring shall be formed surrounding the 33kV GIS building as per IEEE, IS 3043 and Tata Power standardspecifications. 2 x 0.35 sq. inch flexible multi strand copper conductor shall be used for formation of earth ring. This ring shall be connected to existing switching station's earth mat at 2 distinct locations. Earthing of all equipment shall be done considering the equipment fault level and Tata Powerstandard specifications.	lot	1	
8.3	SITC Lightning protection system for the building as per standard	lot	1	18%
9	Cable carrier system as per standard specification	lot	1	18%

	Supply, laying and erection of cable carrier system along with supply and erection of cable trays & its support structures as per specification			
10	SITC Public Address system	nos	1	18%
11	Safety Equipment	lot	1	18%
12	Boards at GIS floor	lot	1	18%
13	EHV/MV/LV SLD boards for complete station	lot	1	18%
14	Tool arrangement boards	lot	1	18%
15	LOTO accessories 1 lot	lot	1	18%
16	Safety signage board 1 lot	lot	1	18%
17	Supply and installation of metal nameplates per feeder as per Tata Power standard requirement as per specification	Nos.	99	18%
18	Supply, erection and installation of base frames along with modification of false flooring panels as per specifications	Nos	10	18%
19	Supply and modification of transformer LV cable box's gland plates, gland plate modifications for metering, automation and RCP panels and supply of cable glands.	LS	Lumpsum	18%
20	Supply of ISI marked 33 kV and 1.1 kV insulating mats as per IS 15652 as per specifications	SQMT	60	18%
21	Supply and services for Fire retardant paint for 33 kV cables			18%
	33kV, 1C, 630 sqmm, XLPE	Meter	60	18%
	33kV, 3C, 400 sqmm, XLPE	Meter	40	18%
22	Supply and services for control cable tags at both ends of control cables as per TPC standard ( steel plate with engraving )	LS	Lumpsum	18%
23	Skilled manpower services miscellaneous for testing and commissioning activities other than mentioned in scope of work	Man days	100	18%
24	Other miscellaneous material, resources, activities as per specifications issued and required for completion of BoP job scope.	LS	Lumpsum	18%

<b>Price Bid for BoP Services for various distribution type transformers @ Kalyan, Ambernath &amp; Karanjade</b>				
<b>Sr No</b>	<b>Item Description</b>	<b>Unit</b>	<b>Quantity</b>	<b>GS T</b>
<b>A</b>	<b>Scope of work for Transformer's replacement at Existing location: 01 no at Kalyan, 01 no at Ambernath &amp; 1 no new Station transformer at Karanjade</b>			
A.1	Complete services scope of work for dismantling of existing transformer as per specifications	EA	2	18%
A.2	Complete services scope of work for unloading, erection and commissioning of transformer as per specifications	EA	3	18%
A.3	Services for laying and installation of earth conductors, control cables etc as per specifications	Lot	3	18%
A.4	Survey of transformer yard, preparation of transformer's plan and section drawing as per site condition in Auto Cad format	EA	3	18%
A.5	Supply and Laying of LT power cables (3Rx1Cx630 sqmm) form new station transformer to existing ACDB in old building-(Approx-800Meter) & removal of existing LT power cables (3Rx1Cx630sqmm) from both ends is in bidders scope.	lot	1	18%

It may be noted that all future correspondence will be strictly done only with Interested Vendors who have done the above steps (As mentioned in section "B") in time with Authorized Person, and only through Tata Power E-Tender System.