

The Tata Power Company Limited Invites Tenders through E-Tender Two-Part Bidding Process from interested bidders (with manufacturing facilities in India) for the following Electrical packages required for its Transmission Divisions: -

A. Summary of the tendered packages:

Sr. No.	Description	Tender Reference no.	Bid Guarantee Fee / EMD (Rs.)	Tender Fee (Rs.)
For the following package contact person shall be Mr. Anubhav Anand (anubhav.anand@tatapower.com).				
1.	Design, engineering, manufacturing, factory testing, deliver to site, obtaining statutory approvals, laying, services for installation and commissioning of 110 kV cables & accessories for Dharavi & Vikhroli GIS projects.	CC21AA063	10,00,000 /-	2,000 /-

For additional technical details and Pre-Qualification criteria for the subject works please refer **Section C** below.

B. Guidelines for Participating:

Interested bidders having executed similar projects can participate by submitting the following up to **1500 hrs. Monday, 13th September 2021**: -

1. Non-Refundable Tender Fee, as indicated in table above, in the form of
 - a. Direct deposit in the following bank account and submit the receipt along with a covering letter clearly indicating the Tender Reference number –
 - 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. Bidders to also submit duly signed and stamped letter indicating name of authorized person, contact number and e-mail id (mandatory) on Bidder's letterhead. It is mandatory to mention Tender Reference no. in the said letter.

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

Interested Bidder must get in touch with respective contact person, mentioned above, at Tata Power Sahar Receiving Station, T2 Airport Road, Sahar, Andheri (E), Mumbai 400 059 (Near Leela Hotel) for submitting the documents.

It may be please be noted that all future correspondence will be strictly done only with **Interested Bidders** who have done the above steps in time with Authorized Person only through Tata Power E-Tender System.

Earnest Money Deposit (EMD) of **INR 10.00 Lakhs** is not to be submitted now and is required at a later stage along with tender submission in the form of Bank Guarantee.

Section C: Addition technical details: (Please refer the following pages for details).

Package Description : Design, engineering, manufacturing, factory testing, deliver to site, obtaining statutory approvals, laying, services for installation and commissioning of 110 kV cables & accessories for Dharavi & Vikhroli GIS projects.

Tender Reference no : CC21AA063

Details : Estimated Bill of Quantity - Dharavi			
Sr. No.	Short Description	Tentative Quantity	UoM
SUPPLY			
1	Supply of 110 kV x 1C x 400 Sqmm CU XLPE cables with aluminium corrugated sheath (500 meter spare)	2840	Mtrs
2	Supply of 110 kV x 1C x 630 Sqmm Cu XLPE cables with aluminium corrugated sheath	5430	Mtrs
3	Sealing End for GIS termination with 110 kV 1C XLPE Copper 1600 sq mm lead sheathed cable as per specifications (24+2 spare)	20	Nos
4	Sealing End for O/D termination with 110 kV 1C XLPE Copper 1600 sq mm Lead sheathed cable as per specifications (24+2 spare)	2	Nos
5	Sealing End for O/D termination with 110 kV 1C XLPE Copper 630 sq mm Aluminium corrugated cable as per specifications (18+2 spare)	20	Nos
6	Sealing End for TRF termination with 110 kV 1C XLPE Copper 1600 sq mm Aluminium corrugated cable as per specifications (6+1 spare)	7	Nos
7	Sealing End for GIS termination with 110 kV 1C XLPE Copper 630 sq mm Aluminium corrugated cable as per specifications (27+2 spare)	29	Nos
8	Sealing End for GIS termination with 110 kV 1C XLPE Copper 400 sq mm Aluminium corrugated cable as per specifications (12+1 spare)	13	Nos
9	Supply of straight joints for 110 kV 1C 630 Sqmm Cu. XLPE aluminium corrugated sheathed Cable (6+1 spare)	7	Nos
10	Supply of straight joints for 110 kV 1C 400 Sqmm Cu. XLPE aluminium corrugated sheathed Cable (12+2 spare)	14	Nos
11	Supply of Transition joints for 110 kV ,3 c 770 MCM oil filled cable to 110 kv,1C 630 Sqmm Cu. XLPE Cable (3+1 spare)	4	Nos
12	Supply of single Phase link box for sheath bonding (96+2 spare)	98	Nos
13	Sheath bonding cable	1500	Mtrs
14	Supply of HDPE pipes for EHV cable (OD 250 mm & 5 mtr length)	200	Nos
15	Cable Cleats	1,000	Nos
16	Galvanised Steel structure for cable Cleating arrangement	45	MT
17	Mounting structure for outdoor cable termination	18	Nos
18	Terminal connector for Outdoor termination (18+2 spare)	20	Nos
19	Supply of FOP joint boxes	4	Nos
20	Supply of cable tiles	20,000	Nos
SERVICE			
1	Detailed surveying of the Cable route along the alignment fixed by the owner & preparation of profile drawing for cable laying and preparation of final cable route in 6 sets of hard & soft copy in a scale of 1:10 indicating the position of cable jointing chambers, earthing details, position of cable route marker, land marks etc., after completing the work & energizing for the use of permanent record, GPS mapping of utilities to be indicated in the drawing complete. (Based on preliminary route survey, total route length 3000mtr)	3,000	Mtr
2	Excavation of Cable trenches as per approved drawings with proper wooden shoring, de-watering arrangement & with sufficient clearances from all sites . Excavation in hard murrum, earth rock/debris, backfilled earth, where underground service lines are likely to be present, shoring the trenches, demolishing PCC, Brick work, Rubble masonry encountered while making the trenches, disposal of excavated earth within 24 hours. Laying of PCC bed & erecting side tiles ,Warning tape refer Approved trench drawing. Backfilling with STB upto 660 mm as per drawing of trench. Backfilling above RCC tiles upto road level with excavated earth as per approved trench drawing with Compaction and NOC from Concern Authority/Agency complete (For two Circuits)Trench Cross sectionDrawings shall be prepared by Bidder as per Specifications and approved by Owner.	2,000	RMtr
3	Excavation for Road crossing as per approved drawings with proper, de-watering arrangement & sufficient clearances from all sites . Excavation in all types of soil - hard murrum, earth rock, debris, backfilled earth, where underground service lines are likely to be present, demolishing PCC/brick work/rubble masonry encountered while making the trenches, disposal of excavated earth within 24 hours. Laying of PCC bed and HDPE pipes & erecting side tiles approved trench drawing. Backfilling with (sand metal mix) ,Warning tape, Top will be Reinstated with Soling & Compaction , Asphalt,& PCC M 20 or Satutory requirement on Top Crossing drawing complete. (For all three Circuits) Trench Cross sectionDrawings shall be prepared by Bidder as per Specifications and approved by Owner.	1,000	RMtr
4	Services for laying of tiles 660x500x60 mm complete (including shifting, transportation and laying in trench).	20,000	Nos
5	Services for un-coiling & laying 110 kV, 1600/630 /400 Sq.mm XLPE insulated cable as per approved drawing, & specification in open trench & through HDPE pipe laid along the route,including Loading from store ,transportation,unloading at site , returning cable drum to tata power warehouse ,permits from concern authority ,trefoil formation ,phase marking complete.	13	kM
6	Services for un-coiling & laying optical fibre cable 48 Fibre of specified type along the cable trench through HDPE pipe as per approved drawing & specification including Loading from store ,transportation,unloading at site , returning cable drum to tata power warehouse, permits from concern authority , labour charge complete, Tests as per Tata Power/KEC requirement.	2	kM
7	Services for OFC splicing & termination	4	Nos
8	Construction of FO cable hand hole	2	Each
9	Services for construction of cable jointing chamber (RCC types) along with Below ground Earth mat (along with supply of material as per specification) for Joint bay of suitable dimensions as mutually agreed for 1 circuits i.e., 3 no of cable with link boxes, earthing as per site requirement as per specifications. Including supply & filling submerged (including supply and filling of STB) [10.0 mtr] (As per Site conditions, final number of joint bays will be decided)	9	Nos
10	Services for installation of straight joint/cross bonding joint of 110 kV UG cable.	24	Nos
11	Services for installation of Transition joint of 110 kV UG cable.	3	Nos
12	Services for installation of GIS termination of 110 kV UG cable	63	Nos
13	Services for installation of TRF termination of 110 kV UG cable	6	Nos
14	Services for installation of Outdoor termination of 110 kV UG cable	18	Nos
15	Services for 40 mm dia duct for 48F optical fibre cable complete	2,000	Mtr
16	Services for Joint box for FO cable	4	Sets
17	Installation of Link Box in Termination including earthing	93	Nos
18	Terminal connector for Outdoor termination	18	Set
19	Fabrication of Structural Steel for cable cleating arrangement	45	MT
20	Mounting structure for outdoor cable termination	18	Nos
21	Transport of Material	300	MT
22	Testing & Commissioning (Per Circuit)	23	Nos
23	RI	2,000	Mtr

Details : Estimated Bill of Quantity - Vikhroli			
Sr. No.	Short Description	Tentative Quantity	UoM
SUPPLY			
1	Sealing End for GIS termination with Cable 110 kV 1C XLPE Copper 1600 sq mm as per specifications (24+2 spare)	26	Nos
2	Sealing End for O/D termination with Cable 110 kV 1C XLPE Copper 1600 sq mm as per specifications (15+2 spare)	17	Nos
3	Sealing End for TRF termination with Cable 110 kV 1C XLPE Copper 1600 sq mm as per specifications (3+1 spare)	4	Nos
4	Supply of 1 Phase link box for sheath bonding (42+1 spare)	43	Nos
5	Sheath bonding cable	500	Mtrs.
6	Supply of HDPE pipes for EHV cable (OD 250 mm & 5 mtr length)	300	Nos
7	Cable Cleats	1000	Nos
8	Galvanised Steel structure for cable Cleating arrangement	20	MT
9	Mounting structure for outdoor cable termination	15	Nos
10	Terminal connector for Outdoor termination (15+2 spare)	17	Nos
11	Supply of FOP joint boxes	4	Nos
12	Supply of cable tiles	9,000	Nos
SERVICE			
1	Detailed surveying of the Cable route along the alignment fixed by the owner & preparation of profile drawing for cable laying and preparation of final cable route in 6 sets of hard & soft copy in a scale of 1:10 indicating the position of cable jointing chambers, earthing details, position of cable route marker, land marks etc., after completing the work & energizing for the use of permanent record, GPS mapping of utilities to be indicated in the drawing complete. (Based on preliminary route survey, total route length 1500mtr	2,000	Mtr
2	Excavation of Cable trenches as per approved drawings with proper wooden shoring, de-watering arrangement & with sufficient clearances from all sites . Excavation in hard murrum, earth rock/debris, backfilled earth, where underground service lines are likely to be present, shoring the trenches, demolishing PCC, Brick work, Rubble masonry encountered while making the trenches, disposal of excavated earth within 24 hours. Laying of PCC bed & erecting side tiles ,Warning tape refer Approved trench drawing. Backfilling with STB upto 660 mm as per drawing of trench. Backfilling above RCC tiles upto road level with excavated earth as per approved trench drawing with Compaction and NOC from Concern Authority/Agency complete (For Two Circuits)Trench Cross sectionDrawings shall be prepared by Bidder as per Specifications and approved by Owner.	1,500	RMtr
3	Excavation for Road crossing as per approved drawings with proper, de-watering arrangement & sufficient clearances from all sites . Excavation in all types of soil - hard murrum, earth rock, debris, backfilled earth, where underground service lines are likely to be present, demolishing PCC/brick work/rubble masonry encountered while making the trenches, disposal of excavated earth within 24 hours. Laying of PCC bed and HDPE pipes & erecting side tiles approved trench drawing. Backfilling with (sand metal mix) ,Warning tape, Top will be Reinstated with Soling & Compaction , Asphalt,& PCC M 20 or Satutory requirement on Top Crossing drawing complete. (For all three Circuits) Trench Cross sectionDrawings shall be prepared by Bidder as per Specifications and approved by Owner.	500	RMtr
4	Services for laying of tiles 660x500x60 mm complete (including shifting, transportation and laying in trench).	9,000	Nos
5	Services for un-coiling & laying 110 kV, 1600/630 /400 Sq.mm XLPE insulated cable as per approved drawing, & specification in open trench & through HDPE pipe laid along the route,including Loading from store ,transportation,unloading at site , returning cable drum to tata power warehouse ,permits from concern authority ,trefoil formation ,phase marking complete.	3	kM
6	Services for un-coiling & laying optical fibre cable 48 Fibre of specified type along the cable trench through HDPE pipe as per approved drawing & specification including Loading from store ,transportation,unloading at site , returning cable drum to tata power warehouse ,permits from concern authority , labour charge complete, Tests as per Tata Power/KEC requirement.	1	kM
7	Services for OFC splicing & termination	4	Nos
8	Construction of FO cable hand hole	2	Each
9	Services for installation of GIS termination of 110 kV UG cable	24	Nos
10	Services for installation of TRF termination of 110 kV UG cable	3	Nos
11	Services for installation of Outdoor termination of 110 kV UG cable	15	Nos
12	Services for 40 mm dia duct for 48F optical fibre cable complete	1,000	Mtr
13	Services for Joint box for FO cable	4	Sets
14	Installation of Link Box in Termination including earthing	42	Nos
15	Terminal connector for Outdoor termination	15	Set
16	Fabrication of Structural Steel for cable cleating arrangement	20	MT
17	Mounting structure for outdoor cable termination	15	Nos
18	Transport of Material	150	MT
19	Testing & Commissioning (Per Circuit)	8	Nos
20	RI	1,500	Mtr

Pre-Qualification Requirement (PQR) - Please note that the PQR is for information only and the documentary evidence to ascertain meeting of the requirement has to be submitted along with the bid and not along with the tender fee.		
Bidder should qualify Prequalifying Requirements indicated in both Part A & Part B		
Bidders Prequalifying Requirements for 110 kV EHV Cable (Part A)		
Parameter	Tata Power's Requirement	Documents to be submitted by Bidder to ascertain meeting of Pre-Qualification Requirement
Execution Capability	<p>1.0 EPC Bidder should have executed minimum 3 nos of EHV cable system projects (110 kV & Above) in Tier 1 Cities (Category "X") (viz. Delhi, Mumbai, Kolkata, Chennai, Bangalore, Hyderabad, Ahmedabad & Pune) with following scope:-</p> <p>a) Supply of EHV cable system from OEM. b) Liasoning for obtaining statutory approvals required for EHV cable laying. c) Civil works for cable trench, joint bays. d) Laying, Jointing / Termination of cable system. e) Backfilling and reinstatement of cable trench and commissioning of cable system.</p> <p>2.0 EPC bidder should have commissioned not less than 10.00 K.Ms. in last 5 Yrs as a single order.</p>	List of Projects executed and certificates from utilities / clients.
Projects in Service	Out of the 3 projects executed by the bidder, at least one project executed by the bidder shall be in service satisfactorily for minimum of three years as on date of bid submission.	Performance Certificates from the utilities / clients.
Commercial Capability	Average Annual Turnover of the bidder for last three years shall not be less than INR 70.00 Crs.	<p>Profit and Loss Statements, Balance Sheet, Cash Flow Statements for the Three (3) preceding financial years duly audited and approved by Authorized Audit Firm / CA.</p> <p>In case of JV, bidder to submit statement from Chartered Accountant (CA) certifying:- (a) Equity stake of the partners in the Joint Venture and (b) Sum of Each Partners turnover multiplied by their respective equity stake in JV for last 3 years should exceed the Tata Power requirement (c) JV to have positive Net worth for preceding year. Incase JV does not have positive Net worth then all partners to have positive Net worth for preceding year.</p> <p>Backup guarantee document to be submitted by JV Partners to support the JV till execution of the project till completion of execution and completion of Latent Defect Liability Period.</p>
Supply	EPC Bidder shall supply EHV cable system from vendors meeting the qualifying requirement as mentioned in Part B.	Bidders confirmation.
Warranty	Bidder shall provide 5 years warranty for the supplied and installed Cable System.	Bidders confirmation.
Bidders Prequalifying Requirements for 110 kV EHV Cable (Part B)		
Infrastructure	Bidder shall be OEM of 110 kV and above voltage class, single core XLPE cables with manufacturing facility / assembly in India.	Self-undertaking to be submitted in this regard. Tata Power reserves the right to inspect the said manufacturing facility as a proof of compliance to this parameter.
Supply & Experience	<p>Bidder shall have manufactured and supplied 100 K.Ms. of 110 kV and above voltage grade XLPE Cables in last 5 years as on original bid submission date.</p> <p>Minimum of 25 K.Ms. cable length of 110 kV and above voltage grade XLPE Cables should have been in satisfactory commercial operation for minimum period of 3 years as on original bid submission date.</p> <p>Indian Subsidiaries / JV of global companies (Parent) registered & having plant in India can be considered provided the Parent supports the bidder to meet the PQR. In such cases, documentary evidences shall be furnished for proving the Parent - Subsidiary / JV relationship and a Backup guarantee of five years for successful operation of the cable shall be furnished by the Parent.</p>	<p>Supply List & Performance Certificates from the utilities / clients</p> <p>Relevant documentary evidences & a Backup guarantee.</p>
Type Test	<p>The bidder shall submit Type Test reports obtained from NABL / International Accredited Lab as per IEC 60840 for 110 kV or higher voltage grade XLPE cable and accessories. The type tests should have been conducted on the equipment / material of the same design.</p> <p>The type tests should have been conducted within 5 years prior to the date of bid opening. Time period for type test may be extended by another 5 years as a special case, if there is no change in design / material of construction (MOC).</p> <p>In case the type test reports furnished are not for the quoted cable but for the cable with different voltage class and/or different conductor size, then type test shall be carried out for the offered cable from NABL / International Accredited Lab without any cost implication to the owner and the Type Test reports shall be submitted before despatch of the Cable System.</p>	<p>Type Test Report.</p> <p>Undertaking that there is no change in design / material of construction (MOC) if Type Test Report older than 5 years but less than 10 years prior to date of bid opening has to be considered (if applicable)</p> <p>Undertaking that type test shall be carried out for the offered equipment / material from NABL / International Accredited Lab without any cost implication to the owner and the Type Test reports shall be submitted before despatch of the equipment / material, in case type test reports furnished are not for the quoted equipment / material but for the equipment / material with higher voltage class and/or different capacity, (if applicable)</p>