

Site Package Part B, 220 KV Cable Work for 400/220 KV Prayagraj (Allahabad) Sub-station Extension (SS-119);GEM/2024/B/5170517

Sl. No.	Tender Reference	Tender Clause	Bidder's Query	Powergrid reply
1	Section-III: Bid Data Sheets, Clause No. 4, Bid Prices	Prices quoted by the Bidder shall be FIRM and FIXED. No price variation shall be applicable to the prices during the currency of the contract.	Section-VI: Sample Forms and Procedure incorporates Price Adjustment as per Appendix-2 which is contradictory to Clause No. 4 of Section-III which states that the prices shall be Firm & Fixed. Apart from this GeM Bid Document also states that the Price Variation is applicable for this Tender, therefore, please confirm that Price Variation is applicable for the tendered 220kV 1Core 2500 sqmm cable as per the Formulae specified in Appendix-2.	Price variation is applicable. Clause 4 of BDS may be read as "Bids shall confirm to the price adjustment provisions as detailed in appendix-2, Forms and procedures, Conditions of Contract".
2	Attachment-1: Bid-Securing Declaration	(4) If, as per the requirement of Qualification Requirements, we fail to submit a Deed of Joint Undertaking (duly attested by Notary Public of the place(s) of the respective executants (s) or registered with the Indian Embassy/High Commission in that Country) within 10 days from the date of intimation of post-bid discussion; or	There is no requirement of submission of Deed of Joint Undertaking under the Qualifying Requirement of Bidder, hence, this Clause should be removed/deleted.	Deed of Joint Undertaking is not Applicable.
3	Technical Specification, Section: EHV XLPE Power Cable, Clause No. 1.2	The EHV grade cable shall be single core, unarmoured, stranded, compacted/segmental Aluminium/Copper (as specified in BPS).....	The conductor material of 220kV cable has not been specified in the BPS whereas Section-Project, Volume-II, Technical Specification, Clause No. 2.1 (a) stipulated that "The conductor and size of cable shall be copper and 2500 sqmm respectively", hence please confirm that the tendered 220kV 1Core 2500 sqmm cable shall be supplied with Copper conductor.	The EHV cable shall be of ' Copper Conductor ', as has been specified already under Section Project, Scope of Work, clause 2, sub-clause 2.1(a)
4	Technical Specification, Section: EHV XLPE Power Cable, Clause No. 1.12	Radial Moisture Barrier	Both Lead sheath and Corrugated Aluminium sheath has been in the Technical Specification, hence, please confirm whether the 220kV cable is to be supplied with Corrugated Aluminium sheath OR with Lead sheath.	The TS clause provides for either of the two as word ' OR ' has been used in the TS clause.
5	Technical Specification, Section: EHV XLPE Power Cable, Clause No. 1.10	The extruded XLPE insulation shall be applied over the conductor screen to the desired thickness in a void free manner.	Please note that Clause No. 1.1 of Technical Specification specify that the XLPE insulated EHV cable shall conform to the requirements of IEC 60502-2 (applicable clauses only) for construction and IEC 60840/IEC 62067 (as applicable) for testing. In contrary to this, Clause No. 5 of Annexure-L of Section-General Technical Requirements (GTR) states that the equipment offered by the contractor shall confirm to relevant IS standard. It is to be noted that IEC does not specify any insulation thickness whereas IS 7098/Part-3 stipulates insulation thickness as 27 mm for 220kV cable. In view of the above please confirm the insulation thickness to be offered for the 220kV 2500 sqmm cable .	The provision of IS 7098 (Part-3): 1993 as amended upto date shall be applicable.
6	Technical Specification, Section: EHV XLPE Power Cable, Clause No. 34	Distributed Temperature Monitoring System (DTS)	Please confirm that no DTS System and Optic Fibre Cable for DTS and telecommunication is to be supplied and installed under the present tender.	The 'DTS and Fibre Optic' NOT ENVISAGED under present scope of work, as specified already under Section Project, Scope of Work, clause 2, sub-clause 2.1(h)

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7	Section-Project, Volume-II, Technical Specification, Clause No. 3, Specific Exclusions	The following items of work are specifically excluded from the scope of the specification: a) Supply of Cable termination Support Structure, b) Foundation of Cable termination Support Structure	The supply of Cable Termination Support Structure and its Civil Foundation is not in bidder's scope, hence, please confirm who will install/erect the Outdoor termination mounting structure. Please confirm that all the Outdoor Termination would be installed on steel mounting structure erected on ground and no Termination would be installed on Cable Terminating Tower.	The installation / erection of the outdoor termination kit as well as the mounting structure is included in the present scope of work, as has been already specified under Section Project, Scope of Work, clause 2, sub-clause 2.2(k). Further, the mounting structure shall be placed on the foundation on ground and no termination tower is involved.
8	Section-Project, Volume-II, Technical Specification, Clause No. 5, Schedule of Quantities	In case of cable (i.e. Power cable & fiber cable), the actual quantity erected shall be considered for payment purpose. All wastages during installation, jointing, termination etc. shall be to Contractor's account.	A little bit of wastage of cable is inevitable during the jointing/termination work, hence, the bidder should not be penalized for the same and full payment should be remitted to the successful Contractor for the cable supplied. Please confirm.	Wastage shall be to the account of the contractor /supplier. The terms and conditions of the TS clause shall prevail.
9	Section-Project, Volume-II, Technical Specification, Clause No. 2.2, j)	Bonding of screen/sheath to the earth station through disconnecting type link boxes and SVL (sheath voltage limiter). Bidder shall adopt cross bonding for route under scope.	Please confirm the Sheath Induced Voltage permissible for this project based on which the sheath bonding method would be decided. It is 65 V/km as per Indian Electricity Rules.	Cross-Bonding as per IS 3043 shall be adopted.
10	Qualifying requirement for "Site Package Part B, 220 KV Cable Work for 400/220 KV Prayagraj (Allahabad) Sub-station Extension (SS-119)."	<p>1.1 (a) The manufacturer(s) whose XLPE Power Cables are offered must have designed, manufactured, type tested and supplied in a single contract at least 5 (five) km of single core, 220kV/132kV/110kV* or higher grade XLPE insulated cable which must be in operation for at least 2 (two) years as on the date of NOA.</p> <p>1.1 (b) Alternatively, the bidder who has established manufacturing and testing facility in India for 220kV or higher grade XLPE insulated Cable can also participate provided that Bidder has designed, manufactured, type tested and supplied 220kV or higher grade XLPE insulated cable and which must be in satisfactory # operation for at least one (1) year as on the originally scheduled last date of bid submission (soft copy) as mentioned above.</p> <p>OR Bidder has designed, manufactured, type tested and completed Pre-qualification (PQ) tests as per relevant IEC for 220kV or higher grade XLPE insulated Cable as on the originally scheduled last date of bid submission (soft copy) as mentioned above</p>	Since the tender specification calls for supply of 220kV 2500Sqmm Copper cable, we presume that the type test report of same or higher size of 220kV or higher voltage cable in accordance with Clause 12.2 (Range of Type Approval) of IEC 62067 conducted from any of the National / International accredited Independent laboratory is required to be submitted. Kindly confirm	CONFIRMED. Valid Type Test Report as per the (Range of Type Test Approval) as per IEC 62067 clause 12.2 is required to be submitted.

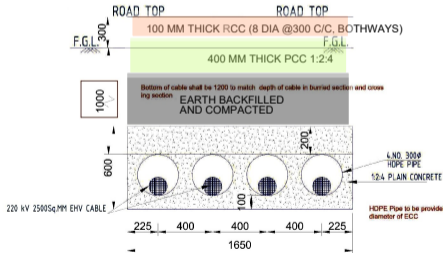
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11	Clause 1.16.3: CABLE JOINTING ACCESSORIES	The straight through joints and cable end terminations shall be of proven design and should have been type tested as per relevant IEC. A list of supply of cable jointing accessories shall be furnished.	We presume that the make and model of Cable accessories (Joint & Termination) shall be of same make and model for which cable system (cable & accessories) has been type tested in accordance with clause 12 of IEC 62067. Kindly confirm.	CONFIRMED. Provisions as per the IEC 62067 clause 12 (Type test on cable systems) shall prevail.
12	SECTION: EHV XLPE POWER CABLE	3. TESTS ON CABLES All offered XLPE insulated EHV cables shall conform to all Type, Routine and Acceptance tests listed in the relevant IEC & shall submit the type test reports for Employer's approval. If specified in Section-Project, Type tests shall be carried out on the EHV cable as per relevant standard	Since conducting a fresh type test on offered cable is not specified in the Section-Project, we presume that the type test report of offered XLPE insulated cable conducted earlier as per governing specification from any of the National/ International accredited Independent laboratory and in accordance with Clause 12.2 (Range of Type Approval) of IEC 62067 shall be submitted for Customer approval. Kindly confirm	CONFIRMED. Valid Type Test Report as per the (Range of Type Test Approval) as per IEC 62067 clause 12.2 is required to be submitted.
13	SECTION: EHV XLPE POWER CABLE Clause No. 1.12, Radial Moisture Barrier	(Clause No- 1.12 MOISTURE BARRIER)-Radial Moisture Barrier: This shall be of extruded Lead alloy "E" sheath or Corrugated Aluminium sheath unless otherwise specified in Section Project. In case Corrugated Aluminium sheath is used, suitable anti-corrosive layer shall be applied over the Aluminium sheath.	Please confirm the cable construction i.e. whether Radial Moisture Barrier(Metallic Sheath) for 220 KV Cable is extruded Lead alloy "E" sheath or Corrugated Aluminium sheath. Please confirm the same.	The TS clause provides for either of the two as word 'OR' has been used in the TS clause.
14	BDS Clause 8. Performance Security and GCC Clause 9.3.1	In BDS Performance security is mentioned as 5%. Whereas in GCC it is mentioned as 10%.	Please confirm whether Performance security is 5% or 10%.	Performance security is 5% of total contract price plus additional performance securities for two (02) years over and above the guarantee period as specified in bidding document, if any, in line with the requirement of Qualification Requirements.
15	Section-EHV Power cable, Clause 1.2, Pg 1 Section-EHV Power cable, Clause 1.12, Pg 2	The EHV grade cable shall be single core, unarmoured, stranded, compacted..... (Metal sheath of Lead alloy 'E' / Corrugated Aluminium, (unless otherwise specified in Section Project)..... particulars of specification. Radial Moisture Barrier: This shall be of extruded Lead alloy "E" sheath or Corrugated Aluminium sheath unless otherwise specified in Section Project. In case Corrugated Aluminium sheath is used, suitable anti-corrosive layer shall be applied over the Aluminium sheath.	As per the mentioned clause 1.2 & 1.12 metallic screen conductor material is Lead alloy 'E' / Corrugated Aluminium, (unless otherwise specified in Section Project). Please confirm type of metallic sheath material i.e., Extruded Lead Alloy 'E' or Corrugated Aluminium sheath (seam welded) type.	The TS clause provides for either of the two as word 'OR' has been used in the TS clause.
16	Section-EHV Power cable, Clause 1.13, Pg 3	The metallic screen shall be of plain copper wires, helically applied over the radial moisture barrier. A suitable binder tape of annealed plain copper shall be applied over the copper wire screen. The combination of the metallic sheath (lead or Aluminium sheath) in combination with wire screen shall be designed to meet the requirement of the system short circuit rating as specified in the bidding documents.	Technical specification of clause 1.13 has specified that the combination of the metallic sheath (lead or Aluminium sheath) in combination with wire screen shall be designed to meet the requirement of the system short circuit rating as specified, metallic sheath short circuit current value is not specified in the bidding documents. So, please confirm short circuit current of metallic sheath.	Fault level / System Short Circuit Rating is 50kA for 1 sec, as specified already under Section Project, Scope of Work, clause 4, sub-clause 4.3 and 4.4

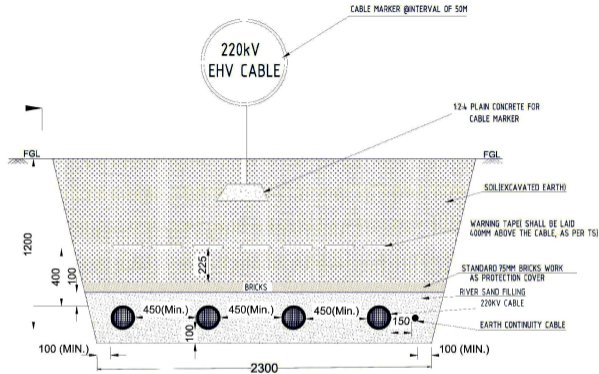
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17	Qualifying Requirement, Technical Experience, Clause 1.1(a)	The bidder must have designed, manufactured, type tested and supplied cumulatively at least 05 (five) km of single core 220kV or higher grade XLPE insulated cable which must have been in satisfactory # operation for at least 2 (two) years as on the originally scheduled last date of bid submission (soft copy) i.e. 16.08.2024.	We have a type test of 220kV 2500sqmm Al conductor Corrugated Al Sheath Cable. Pl confirm whether the same would be applicable for this tender or not.	Valid Type Test Report as per the (Range of Type Test Approval) as per IEC 62067 clause 12.2 is required to be submitted for Copper Conductor cable.
18	Cross-section drawing of Road/Trench Crossing	Drawing attached in tender	Pl provide complete details in the cross-section of road/trench crossing drawing attached. Cross sectional detail for 1000mm section is not clear in the attached drawing.	Tender Drawing NR-3/ENGG/220kV CABLE/Rev-01 for Buried Cable Trench Section is attached.
19	Section-Project, Clause 2.1 (f); Clause 2.2 (b, c)	Restoration of the existing road, trenches, drain etc. to the original form.	Pl provide the cross-section of road, drain & trenches to be restored. As per the GA drawing attached Road crossings (3.75m wide & 7m wide) are evident but there is a probability of trenches & drain falling in the route as well. So, request you to provide the cross-sections of the same.	The same shall be provided during detailed engineering. However, Bidder may make a site visit to ascertain and acquaint himself of the detailed site condition, route and verification of road, drains, culverts, etc. along the route.
20	General	Route Survey	Pl share the contact details of the concerned for the purpose of route survey.	Manager Sub-Station, 400/220 KV sub-station , Village -Sarangapur, PO:- Dhandupur, Rewa Road Prayagraj (U.P)- 211001

TENDER DRAWING
NR-3/ENGG/220kV CABLE/Rev-01
TITLE: BURIED CABLE TRENCH SECTION



DETAILS FOR 220kV EHV CABLE
ROAD/TRENCH CROSSING
(Details- A-A)



400/220KV CABLE SECTION DETAIL

HDPE Pipe to be provided for EOC cable also double size of diameter of ECC