

भारत हेवी इलेक्ट्रिकल्स लिमिटेड Bharat Heavy Electricals Limited

पारेषण व्यापार समूह, नोएडा / TBG, Noida सामग्री प्रबंधन / Material Management

5th Floor Plot No.25, Sector-16A, Noida - 201301 (Uttar Pradesh) email: piyush.kumar@bhel.in

<u>Corrigendum no. 01 Date 03.08.2024</u> Due date extension of tender and Pre bid clarifications

- 1. **Project**: Vishnugad Pipalkoti Hydro Electric Project (4X111 MW)
- **2. Equipment / Item**: 400 kV XLPE Cable & accessories
- **3.** Enquiry No. / Date : 92G2500177 dated 24/07/2024
- 4. NIT No. / Date on BHEL: NIT_84145
- **5. Enquiry addressed to (Names):** OPEN TENDER [Through GePNIC Portal]

With reference to the above, following clarifications/ Amendment in NIT may please be noted: -

- (1) Due date & time for tender submission and technical bid opening are extended as below:
- Tender submission date & time: From 03.08.2024: 11.00 Hrs to 17.08.2024: 11.00 Hrs
- **Technical bid opening date & time:** From 03.08.2024: 16.00 Hrs to 17.08.2024: 16.00 Hrs
- (2) Pre bid clarifications As per Annexure- Technical and Commercial Clarifications.
- (3) Activity Schedule- As per attachment
- All other terms & conditions of the tender specifications remain unchanged.

	-	ANNEXURE- BIDDERS' PRE-BID TECHNICAL CLAR	RIFICATIONS			
Tender Enquiry/ Naterial:	VIT 92G2500177 dated 24.07.2024 400kV XLPE Cable & accessories					
Project:	400kV ALFE Cable & accessores 400kV GIS Project for Vishnugad Pipalkoti Hydro Electric Project (4x111MW)					
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SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF TS CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS		
I. Bidder 1						
1	Annexure-1, Page No: 211 of 289 Route-2, Clause No:a	420kV(Um) single core conductor of min. 500sqmm copper or equivalent cross sectional area or above XLPE insulated power cables must have been manufactured in its Indian works based on technological support of collaborator/ parent/ principle/ JV company and the manufacturer has completed Type and PQ test in independent NABL accredited laboratories (as per applicable IEC/ IS standard). The Type and PQ tests shall be on 500sqmm copper or above XLPE cable from the same manufacturing unit from which cable system is being offered.	Kindly note that as per BOQ required cable size is for 800 Sq.mm, So Type and PQ test shall be on 800 Sq.mm or above XLPE cable as per IEC: 62067, Clause No: 12. So, Kindly replace the cable size 500 Sq.mm with 800 Sq.mm			
II. Bidder 2						
1	Type Testing	Bidder shall ensure that the equipment (400kV XLPE Cable & its Accessories) being procured should have valid type test certificates as specified in IS/ IEC standards (e.g. IEC 62067) (amended up to date) at any independent laboratory/ NABL accredited laboratory of respective country. The validity of type test reports shall be per CEA guidelines, amended time to time	Request to replace the word "NABL" with "STL" order to accommodate Independent overseas laboratory	Please comply the requirements of TS.		
2	Specific Technical Requirements	400kV, 1Cx800sqmm copper equivalent cross sectional area conductor, extruded crosslinked polyethylene (XLPE) insulated & corrugated aluminium/ laminated aluminium tape sheathed and flame retardant PVC/PE/HDPE outer sheathed cable	Please amend the Descriptionto read as: 400kV, 1Cx800sqmm copper equivalent cross sectional area conductor, extruded crosslinked polyethylene (XLPE) insulated & corrugated (Seamless/Seamweld) aluminium sheathed and flame retardant HDPE outer sheathed cable. Also please note the above metallic sheath construction of Al Corrugation can meet the required System Short Circut level of 40kA for 1 sec PLEASE CONFIRM	Please comply TS & BOQ (Doc No. TB-382-316-005 Rev 01) in line with applicable IEC duly meeting the requirement of earth fault current of 40kA for 1 second.		

Tondor Enquire/ N	A T 92G2500177 dated 24.07.2024	NNEXURE- BIDDERS' PRE-BID TECHNICAL CLAR	HEICATIONS			
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Project:	400kV GIS Project for Vishnugad Pipalkoti Hydro Electric Project (4x111MW)					
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3	Drum length and tolerance	XLPE Cables shall be supplied in tentative drum lengths of 570-660 meters for required 400kV XLPE cable	Considering Hilly Terrain, Transportation Limitations wherein Drum height shall be more than 4.5 mtr, Site Handling; we sincerely request to consider one joint in each run and accordingly accept Drum length of 300~350 mtr PLEASE CONFIRM	Please comply the requirements TS & BOQ., however such details shall be finalized during detailed engineering subject to customer approval.		
4	Site Visit	Route survey during site visit	Request to allow us to conduct Route Survey. Kindly provide us the Contact Name and Number of the site engineer/officer	Noted and it shall be coordinated as per requirements.		
III. Bidder						
1	Section 1 Scope, Project Specific Technical Requirements & Bill of Quantities Clause No. 7 Type Testing	Bidder shall ensure that the equipment (400kV XLPE Cable & its Accessories) being procured should have valid type test certificates as specified in IS/ IEC standards (e.g. IEC 62067) (amended up to date) at any independent laboratory/ NABL accredited laboratory of respective country. The validity of type test reports shall be per CEA guidelines, amended time to time	Clauses under Sr. No.1 & Sr. No.2 mention the independent laboratory/ NABL accredited laboratory for type test & PQ test, whereas	Please comply the requirements of TS.		
2	Section 4 Annexure D Technical checklist Clause no. 5.1 NIT	Bidder shall ensure that the equipment (400kV XLPE Cable & its Accessories) being procured should have valid type test certificates as specified in IS/ IEC standards (e.g. IEC 62067) (amended up to date) at any independent laboratory/ NABL accredited laboratory of respective country. The validity of type test reports shall be per CEA guidelines, amended time to time	Clause under Sr. 3 specifically mentions independent NABL accredited laboratories. Considering above all the clauses, we assume that, we can submit the type test & PQ Test reports from the independent/NABL accredited lab. (i.e as per the cluses mentioned in Section 1 & Section 4) Request you to kindly affirm our interpretation.	Please comply the requirements of TS.		

ANNEXURE- BIDDERS' PRE-BID TECHNICAL CLARIFICATIONS						
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Project:	400kV GIS Project for Vishnugad Pipalkoti Hydro Electric Project (4x111MW)					
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3	Annexure-1 Prequalifying Requirement, 400kV XLPE Cable & Accessories, Clause Technical PQR, Subclause Route 2 a	420kV(Um) single core conductor of min. 500sqmm copper or equivalent cross sectional area or above XLPE insulated power cables must have been manufactured in its Indian works based on technological support of collaborator/ parent/ principle/ JV company and the manufacturer has completed Type and PQ test in independent NABL accredited laboratories (as per applicable IEC/ IS standard). The Type and PQ tests shall be on 500sqmm copper or above XLPE cable from the same manufacturing unit from which cable system is being offered		Noted, subject to customer approval.		
IV. Bidder 4						
1	Annexure-1, A) Technical PQR, Route 2	the manufacturer has completed Type and PQ tests in Independent NABL accrediated laboratory (as per applicable IEC/IS standard)	Apart from an Independent NABL accrediated laboratory, system type and PQ test conducted in an independent international reputed laboratory such as KEMA, CESI, IPH etc. shall also be acceptable. Please confirm.	Noted, subject to customer approval.		
2	Annexure-1, A) Technical PQR, Route 2	The Type and PQ tests shall be on 500 sqmm Copper or above XLPE cable from the same manufacturing unit from which cable system is being offered.	We presume that the Cable and Cable Accessories (Jointes and Termination) of the same make for which cable system has been Type and PQ tested as per the governing specification IEC 62067 shall be offered for supply against this tender. Please confirm	TS/ applicable IEC, which shall be		
3	Annexure-1, A) Technical PQR, Route 2	The Type and PQ tests shall be on 500 sqmm Copper or above XLPE cable from the same manufacturing unit from which cable system is being offered.	We presume that the PQ & Type test should have been conducted as per the governing specification IEC 62067 on the cable as well as cable accessories manufactured in the plant from where the bidder is proposing to supply the tendered cable system. Please confirm	Please comply the requirements of TS/ applicable IEC, which shall be subjected to customer approval.		

	Α	NNEXURE- BIDDERS' PRE-BID TECHNICAL CLAR	RIFICATIONS			
	T 92G2500177 dated 24.07.2024					
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Project:	400kV GIS Project for Vishnugad Pipalkoti Hydro Electric Project (4x111MW)					
SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF TS CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS		
4	Annexure-1, A) Technical PQR, Route 2	The Type and PQ tests shall be on 500 sqmm Copper or above XLPE cable from the same manufacturing unit from which cable system is being offered.	The governing specification IEC 62067 calls for System Type & PQ Test i.e., Cable + Joint + Termination. Hence, we presume that the bidder should submit the Type & PQ Test Reports for 400kV Cable System. Further As per Clause 12.2 (Range of type approval) of specification IEC 62067, Type Test conducted on lower size of cable shall not be valid for the higher size of cable within the same voltage grade. Since tender specification calls for supply of 800Sqmm Cable, so we request to kindly review and arrange to amend the type test report requirement inline with IEC specification. The tender requirement should be amended as under: The system Type and PQ tests shall be on 800 sqmm Copper or above XLPE cable from the same manufacturing unit from which cable system is being offered.			
5	Annexure-1, A) Technical PQR, Route 2	c) A Confirmation letter from such collaborator/ parent/ principal/J V Company stating that they guarantee the Quality and Performance of the offered cable.	Please provide the format for the confirmation letter from collaborator/ parent/ principal/J V Company	No Specific format		
6	Doc. No. TB-382-316-058, REV 05, Page No. 7 of Linear Heat Sensor (LHS) Please (installation)		Please confirm that design, supply & installation of Linear Heat Sensor (LHS) is not in the bidder's scope.	It is not in scope.		
7	Price Schedule SI. No. 1.20	Any other item not listed but are required for completeness of installation & commissioning of system	Please clearly specify your requirement OR delete this open ended and ambiguous line time.	This item is not applicable for main items.		
8	Annexure 1-BOQ of 400kV XLPE Cable & its Accessories, Rev. No. 00, Sl. No. 5	The housing of the Outdoor sealing end shall be of porcelain/ epoxy resin insulator.	Please note that epoxy insulator is applicable for GIS Termination. Outdoor Terminations are available with Porcelain and Composite/ Polymeric insulators only. As Porcelain design is outdated, please confirm that Composite/Polymeric insulator is acceptable.	Please comply TS & BOQ, however, details shall be finalized during detailed engineering stage as per project and XLPE cable OEM requirement.		

	ANNEXURE- BIDDERS' PRE-BID TECHNICAL CLARIFICATIONS						
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Project:	400kV GIS Project for Vishnugad Pipalkoti Hydro Electric Project (4x111MW)						
SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF TS CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS			
9	Annexure 1-BOQ of 400kV XLPE Cable & its Accessories, Rev. No. 00, Sl. No. 4	The housing of the SF6 indoor sealing/termination end shall be of porcelain/epoxy resin insulator.	GIS Terminations are available with epoxy insulator only. Porcelain insulator is not applicable for the GIS Termination. Please confirm.	Please comply TS & BOQ, however, details shall be finalized during detailed engineering stage as per project and XLPE cable OEM requirement.			
10	Annexure 1-BOQ of 400kV XLPE Cable & its Accessories, Rev. No. 00, Sl. No. 4	The housing of the SF6 indoor sealing/termination end shall be of porcelain/epoxy resin insulator.	Please also confirm that GIS Termination shall be of Dry type OR Oil Filled type.	Please comply TS & BOQ, however, details shall be finalized during detailed engineering stage as per project and XLPE cable OEM requirement.			
11	Price Schedule Sl. No. 1.11	Consumables with limited shelf life suitable/compatible for cable system	No consumable is required for extra high voltage cables. Further to this, the consumables required for installation of Joints & Terminations are imported and supplied along with the jointing kits itself as these materials form a part of the Kit and cannot be supplied separately. If any other consumable is envisaged by BHEL then the same should be specified clearly at the bidding stage itself so there is no dispute after the award of contract.	Please comply TS & BOQ , however, details shall be finalized during detailed engineering stage as per project requirement.			
12	Annexure-3, Clause C, Testing & Commission work	Scope Division Matrix between BHEL/its contractor & Bidder/Vendor	Both AC voltage Test of the insulation and 24 hours AC cable soak (no load) test at rated voltage has been incorporated under the testing & commissioning work. Please note that as per IEC 62067, either AC voltage test of the insulation OR 24 Hrs U0 no load test is conducted. Both the tests are not conducted at the same time. As the testing facilities for AC voltage test is not available everywhere, 24 Hrs U0 test is conducted. Please confirm that for this tender, 24 Hrs Uo test will be applicable for which 220kV source shall be provide to bidder on free-of-cost basis.	Availablity of 400kV Supply as per project shall be ensured and accordingly, bidder to arrage testing instrumentst as per above.			

	ANNEXURE- BIDDERS' PRE-BID TECHNICAL CLARIFICATIONS						
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13	Doc No. TB-382-316-005 REV 00 Clause no. 11.10.5, Section-11: Customer TS for 400kV XLPE Cables	Partial discharge measurement test	Partial discharge measurement Testing facility is not available in India. Further the test procedure at site and specified / reference test parameters are also has been mentioned in the governing specification IEC 62067. In view of above we request you to kindly delete the requirement of PD measurement test at site.	Please comply TS & BOQ. However, exact requirement shall be finalized during detailed engineering as per customer approval.			
14	Site visit/ Route survey		Please provide contact details for site visit	Noted and it shall be coordinated as per requirements.			

		Annexure -	Bidder's pre bid commercial clarifications		
Tender Enquiry/ NIT No:	92G2500177 dated 24.07.2024	4			
Item/ Material:	400kV XLPE Cable & accessories				
Project:	400kV GIS Project for Vishnugad Pipalkoti Hydro Electric Project (4x111MW)				
SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS	
I. Bidder 1	T				
1	Due Date of Bid Submission	Due date of bid submission	We hereby request to extend the due date of bid submission for at least 15 days from present due date.	Due date of bid submission is being extended by 14 days.	
II. Bidder 2					
1	EMD	Bid security/ EMD as per NIT is required to be submitted by the bidders along with their bids. Exemption for EMD will be for following types of bidders: (i) Central/ State PSUs/ Government deptts/ Autonomous/Educational/	We being a manufacturer of 400kV XLPE cables are opting for exemption with the following documents towards:- 1. Inspection Report, Invoice & LR copies 2. Chartered Engineer's Certificate certifying 400kV manufcaturing & testing facilities. 3. 400kV Type Test Report PLEASE CONFIRM	Type Test Reports /Inspection Reports/ Chartered Engineer's or Chartered Accountant's Certificate certifying 400kV manufacturing & testing facilities are also acceptable for EMD exemption.	
2	Clause No. 12 of GTC Delivery Period	Delivery Plan – As per Activity Schedule [Annexure II]. 400 kV XLPE Cable & Accessories Manufacturing time for each lot after issuance of Manufacturing Clearance (MFC) by BHEL —16 Weeks	For Cable Termiations and Joints, request to incorporate separate Delivery Schedule of 24 weeks from MFC because supplies are from overseas, wherein dependency with the manufacturer/supplier, Sea Shipment, Custom Clearances are more. Any kind of delay will attract Levy of LD by BHEL, which again is never recoeverable. Sincere request to accept the extended Delivery period especially for Cable Termination & Joints	Manufacturing time in activity schedule is revised from 16 Weeks to 24 Weeks. (For Cables & main accessories- except BOQ Item Sr NO 1.08-1.13). Revised activity Schedule enclosed.	
III. Bidder 3					
1	NIT-Special Terms & Conditions/Cl.No.29/Pg. No. 18	Bid Security/EMD :- EMD Value- Rs 40 Lakhs Bid security/ EMD as per NIT is required to be submitted by the bidders along with their bids. Exemption for EMD will be for following types of bidders: (i) Central/ State PSUs/ Government deptts/ Autonomous/Educational/ Research Institutions (ii) Procurement directly from the manufacturer of 400 kV XI PE Cables		As per NIT and Corrigendum issued.	
2	ACTIVITY SCHEDULE [ANNEXURE II] A. For items except BOQ Item Sr No 1.08-1.13/SI No. 4	Manufacturing time for each lot after issuance of Manufacturing Clearance (MFC) by BHEL# (16	Production time to 24 weeks after Manufacturing clearance	Manufacturing time in activity schedule is revised from 16 Weeks to 24 Weeks. (For Cables & main accessories- except BOQ Item Sr No 1.08-1.13) Revised activity schedule enclosed.	
3	ACTIVITY SCHEDULE [ANNEXURE II] A. For items except BOQ Item Sr No 1.08-1.13/SI No. 7	2.Dispatch (10 Weeks mentioned in tender)	Dispatch time to 12 weeks after dispatch clearance.	Dispatch time in activity schedule is revised from 10 Weeks to 12 Weeks. (For Cables & main accessories- except BOQ Item Sr NO 1.08 1.13). Revised activity Schedule enclosed.	
IV. Bidder 4					
1	Sr No 1.08-1.13/Si No. 4	Manufacturing time for each lot after issuance of Manufacturing Clearance (MFC) by BHEL# (16 Weeks mentioned in tender)	We request you to kindly amend the manufacturing time at least 24 weeks after Manufacturing clearance.	Manufacturing time in activity schedule is revised from 16 Weeks to 24 Weeks. (For Cables & main accessories- except BOQ Item Sr No 1.08-1.13) Revised activity schedule enclosed.	
2	ACTIVITY SCHEDULE [ANNEXURE II] A. For items except BOQ Item Sr No 1.08-1.13/SI No. 7	Dispatch (10 Weeks mentioned in tender)	We request you to kindly amend the despatch time at least 12 weeks after despatch clearance.	Dispatch time in activity schedule is revised from 10 Weeks to 12 Weeks. (For Cables & main accessories- except BOQ Item Sr NO 1.08 1.13). Revised activity Schedule enclosed.	

ACTIVITY SCHEDULE [ANNEXURE II] A. For items except BOQ Item Sr No 1.08-1.13

Item :- 400 kV XLPE Cable & Accessories (Supply+ Services) for Vishnugad Pipalkoti

SL.	ACTIVITY	TIME ALLOTED	SCOPE
NO.		[IN WEEKS]*	
1.	P.O Acceptance	1	IN SCOPE OF SUPPLIER
2.	Submission of documents necessary for getting manufacturing clearance (MFC) like Drawings, data sheet, QAP etc.	3	IN SCOPE OF SUPPLIER
3.	Review and Approval of documents from BHEL/Customer and issue of manufacturing clearance (MFC) lot wise as defined	4	IN SCOPE OF BHEL
4.	Manufacturing time for each lot after issuance of Manufacturing Clearance (MFC) by BHEL#	24	IN SCOPE OF SUPPLIER
5.	Inspection by BHEL/Customer/TPI	1	IN SCOPE OF BHEL
6.	Issue of Dispatch clearance	1	IN SCOPE OF BHEL
7.	Dispatch	12	IN SCOPE OF SUPPLIER
8.	Services (Other Than Type Tests)	16	IN SCOPE OF SUPPLIER

Inspection call to be raised 2 weeks in advance (4 weeks in case of foreign bidder) from the proposed date of inspection. In case 2/4 weeks (as applicable) of advance notice is not given for inspection call, the short period shall be considered as time attributable to vendor & delay shall be computed accordingly. Inspection call should be given in the prescribed format only. Inspection calls not in the prescribed format shall not be entertained.

- 1 Supplier must ensure the completeness and correctness of the requisite documents before submission for approval. Delay in approval on account of incomplete / inadequate information shall be the responsibility of supplier. Bidder to submit revised drawing and documents **within 1 week**s from the date of comments of BHEL/Customer. Delay in submission / resubmission of drawing documents beyond the stipulated time will be considered delay attributable to the vendor and shall be reduced from the time allowable to manufacture, Type Test.
- 2. Delay in each activity pertaining to BHEL not attributable to vendor as listed above shall be added (if required) in time extension case and will be re-fixed accordingly based on delay analysis.

ACTIVITY SCHEDULE [ANNEXURE II] B. For BOQ Item Sr No 1.08-1.13

Item :- 400 kV XLPE Cable & Accessories (Supply+ Services) for Vishnugad Pipalkoti

SL. NO.	ACTIVITY	TIME ALLOTED [IN WEEKS]**	SCOPE
1.	P.O Acceptance	1	IN SCOPE OF SUPPLIER
2.	Submission of documents necessary for getting manufacturing clearance (MFC) like Drawings, data sheet, QAP etc.	19	IN SCOPE OF SUPPLIER
3.	Issue of manufacturing clearance (MFC) from BHEL as per readiness of Site	8	IN SCOPE OF BHEL
4.	Manufacturing time for each lot after issuance of Manufacturing Clearance (MFC) by BHEL#	10	IN SCOPE OF SUPPLIER
5.	Inspection by BHEL/Customer/TPI	1	IN SCOPE OF BHEL
6.	Issue of Dispatch clearance	1	IN SCOPE OF BHEL
7.	Dispatch	6	IN SCOPE OF SUPPLIER
8.	Services (Other Than Type Tests)	16	IN SCOPE OF SUPPLIER

Inspection call to be raised 2 weeks in advance (4 weeks in case of foreign bidder) from the proposed date of inspection. In case 2/4 weeks (as applicable) of advance notice is not given for inspection call, the short period shall be considered as time attributable to vendor & delay shall be computed accordingly. Inspection call should be given in the prescribed format only. Inspection calls not in the prescribed format shall not be entertained.

- 1 Supplier must ensure the completeness and correctness of the requisite documents before submission for approval. Delay in approval on account of incomplete / inadequate information shall be the responsibility of supplier. Bidder to submit revised drawing and documents **within 1 week**s from the date of comments of BHEL/Customer. Delay in submission / resubmission of drawing documents beyond the stipulated time will be considered delay attributable to the vendor and shall be reduced from the time allowable to manufacture, Type Test.
- 2. Delay in each activity pertaining to BHEL not attributable to vendor as listed above shall be added (if required) in time extension case and will be re-fixed accordingly based on delay analysis.