

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

Corrigendum no. 03 Date 15.11.2023 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** : 92G2400174 Date 15.09.2023
- 4. NIT No. / Date on BHEL: NIT_76941
- **5. Enquiry addressed to (Names) :** OPEN TENDER [Through NIC 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 15.11.2023: 11.00 Hrs to 30.11.2023: 11.00 Hrs

Technical bid opening date & time: From 15.11.2023; 16.00 Hrs to 30.11.2023; 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.

Piyush Kumar Mishra Manager / TBMM

		ANNEXURE-BIDDERS' PRE-BID TECHNICAL CLARIFICATIONS	ARIFICATIONS	
Tender Enquiry/ NIT No:	92G2400174 dated 15.09.2023/ 92G2400174			
Item/ Material:	400kV XLPE Cable & accessories			
Project:	400kV GIS Project for Vishnugad Pipalkoti Hydro Electric Project (4x111MW)	ectric Project (4x111MW)		
SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF TS CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
I. Bidder 1				
-	Doc No. TB-382-316-005 REV 00, TB-382-316-058 REV 05, and Section-11	In Tender Document, There are 3 identical Tech spec: for 400 kV XLPE Cable & Its Accessories with different DOC No B-382-316-005 REV 00, TS-382-316-058 REV 05 & Section-11 TS-400 kV XLPE Cables are arranged.	Kindly Clarify the TS to be followed for 400 kV XLPE Cable & Its Accessories.	Please refer dause 1.0, section-1 of TS (Doc No. TB-382-316-005 Rev 00) for order of priorityly precedence of documents
2	Doc No. TB-382-316-005 REV 00, Clause no. 11.10.3.2, Section-11: Customer TS for 400kV XLPE Cables		Type Test report of Higher Size shall be submitted at the time of Bid submission as per IEC 62067 as applicable to offered cable	To be compiled with Technical Specification in line with IEC Standard.
			Please note that the Maximum cond. Resistance of conductor 0.0224 ohms/km is for metal coated copper conductor.	
ဇ	Doc No. TB-382-316-005 REV 00 Clause no. 11.9.1 (S.No: XV-e), Section-11: Customer TS for 400kV XLPE Cables	Maximum resistance of conductor at 20 deg C: 0.0224 ohms/km	But as per specification conductor is un-coated copper i.e. plain annealed copper. Therefore, max. condcutor resistance shall be 0.0221 ohms/km as per IEC: 60228 Noted in line with Applicable IEC. Table No: 2.	Noted in line with Applicable IEC.
			So, kindly correct the cond. resistance of conductor from 0.0224 ohms/km to 0.0221 ohms/km.	
4	Doc No. TB-382-316-005 REV 00 Clause no. 11.7.16, Section-11: Customer TS for 400kV XLPE Cables	Inner sheath: Cable inner sheath shall consist of extruded and corrugated aluminum	It is to be submitted that inner sheath of EHV cables are being manufactured extrusion as well as seam welding methods, and both the techniques/ methods are prevalent in the cable manufacturing industry.	Short circuit design requirement is to be
	Doc No. TB-382-316-005 REV 00 (S.No: XVI-a), Section-11: Customer TS for 400kV XLPE Cables	naminaeu aluminum tape / leau m accondance wim relevant IEC on equivalent standards.	Hence, it is requested to kindly ammend the line as Extruded / seam welded corrugated aluminium sheath	compilea.
w	Doc No. TB-382-316-005 REV 00 Clause no. 11.10.2, Section-11: Customer TS for 400kV XLPE Cables	Inner sheath: Cable Inner sheath shall consist of extruded and corrugated aluminum Aminiated alumium tape / lead in accordance with relevant IEC or equivalent standards.	Kindy amend the line as Extruded / seam welded corrugated aluminium sheath or laminated aluminium sheath Therefore, kindly replace Extruded with Extruded/ Seam welded.	Short circuit design requirement is to be complied.
Φ	Doc No. TB-382-316-005 REV 00 Clause no. 11.10.2, Section-11: Customer TS for 400kV XLPE Cables	Sample Tests-As per IEC 62067 The following routine tests shall be conducted on samples of manufactured cables and on components of accessories in order to verify that the finished products meet the requirements of specifications. Test under item b) & 9) shall be performed on complete lengths of cable.	Word "component" must be deleted as bidder is concerned with cable only.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00).
7	Doc No. TB-382-316-005 REV 00 Clause no. 11.10.2 (h), Section-11: Customer TS for 400kV XLPE Cables	Sample Tests-4s per IEC 62067 The following routine tests shall be conducted on samples of manufactured cables and on components of accessories in order to verify that the finished products meet the requirements of specifications. Test under item b) & 9, shall be performed on complete lengths of cable. b) Water Penetration test	Kindly note that water penetration test shall be examined on "one sample per contract for quantity greater than 4km & upto 20 km and 2 samples for quantity greater than 20 km."	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00).
ω	Doc No. TB-382-316-005 REV 00 Clause no. 11.10.4, Section-11: Customer TS for 400kV XLPE Cables	Type Tests on High Voltage XLPE Power Cables & Accessories : a) Oil Resistance test on Outer sheath b) Measurement of hardness of Outer sheath c) Abration test on Outer sheath d) Labration test on Outer sheath d) Insulation Shrinkage Test e) Annealing test (For copper)	Valid type test and PQ test as per IEC: 62067 shall be submitted along with the bid as applicable to offered cable. However Following Tests are not applicable as per IEC 62067 So kindly delete these tests: a) Oil Resistance test on Outer sheath b) Abration test on Outer sheath c) Abration test on Outer sheath d)Insulation Shrinkage 1 est the and the stranding test (For cooper) after stranding test (For cooper) after stranding	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project
Ø	Doc No. TB-362-316-005 REV 00 Clause no. 11.10.5, Section-11: Customer TS for 400kV XLPE Cables	Site Tests Glowing tests shall be conducted after laying of cables and installation of accessories in accordance with relevant IEC or equivalent standards: a) High voltage AC and DC withstand tests b) Partial discharge measurement test	Must be deleted A High voltage AC withstand tests Sine en ot explicable as per IEC: 62067 and also no testing facility in India is available available with the performed at U0 as soak test for which voltage shall be provided by BHEL. b) Partial discharge measurement test No any testing facility in India is available for Partial discharge measurement test at site. Also no any Test procedure and specified /reference value at site is mentioned as per IEC 62067. It will be performed as Routine & Acceptance test at works only. So kindly delete the test.	Please comply TS & BOQ (Doc No. TB-382-316-005 Rev 00). however, details shall be finalized during detailed engineering stage as per project

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10	Doc No. TB-382-316-005 REV 00 Clause no. 11.10.6, Section-11: Customer TS for 400kV XLPE Cables	Test for Loss Measurement Test to measure losses in conductor and insulation / metallic sheath of Test to measure losses in conductor and insulation / metallic sheath of XLPE power cables of main run shall be carned out by supplier in the presence of purchaser's representative to prove that actual measured losses during testing at works is site are within guaranteed values specified in GTP. Bidder shall furnish methodology of carnying out loss in GTP. Bidder shall furnish methodology of carnying out loss guaranteed values of losses, the supplier shall pay the penalty to the purchaser at the rates as indicated in these specifications.	Please note that Losses shall be determined in the factory by showing the empirical formula calculations as per IEC: 60287.	Losses shall be determined based on the measured values of AC/ DC resistance in line with relevant IEC.
Έ	BOQ1: Item SI No 1.11 (BoQ Item No. A.11) - CONSUMABLES	SUPPLY - HIGH VOLTAGE POWER CABLE : CONSUMABLES WITH LIMITED SHELF LIFE SUITABLE/COMPATIBLE FOR CABLE SYSTEM	Since the XLPE Cable system is a maintanance free system hence we do not recomend consumables for cable system	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project
12	BOO1: Item SI No 1.12 (BoO Item No. A.12) - TOOLS, TACKLES & EQUIPMENT	SUPPLY - HIGH VOLTAGE POWER CABLE : TOOLS, TACKLES & EQUIPMENT REQUIRED FOR OPERATION AND MAINTENANCE OF XLPE CABLE SYSTEM	Since the XLPE Cable system is a maintanance fee system so we do not recomend any Tools, Tackles & Equipment for Operation and Maintenance.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project reouirement.
.5	BOQ1: Item SI No 1.13 (BoQ Item No. A.13) - HAND TOOLS AND RACK	SUPPLY - HIGH VOLTAGE POWER CABLE: HAND TOOLS ALONG WITH RACK	As per our understanding there is no requirement of hand tools along with Rack for XLPE Cable System, hence we donot recomend any Hand Tool along with Rack	Please comply TS & BOQ (Doc No. TB- 322-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project requirement.
II. Bidder 2	Doc No TB-382-316-005 Rev 00		As per SI. No. 19. required value of resistance at 20 deg C is 0.0224 Ω/km. This	
-	SECTION - 1, Clause no.3, Specific Technical Requirements, SI.19 (Page 6 of 18)	SI. No. 19. Maximum resistance of conductor at 20 deg C - 0.0224 Ω/km	resistance is for metal coated annealed copper wires as per IEC 60228.	
2	Doc No. TB-382-316-058 Rev 05 DESIGN BASIS REPORT, Clause no.4.0, CABLES PARAMETERS, SI. No.19	SI. No. 19. Maximum resistance of conductor at 20 deg C - 0.0224 Ω/km	As per Design basis report clause no. 7.0 a) & SECTION - 11, Clause no. 11.7.1.1 Noted in line with Applicable IEC. opper wires.	Noted in line with Applicable IEC.
ю	Doc No. TB-382-316-058 Rev 05 DESIGN BASIS REPORT, Clause no.7.0 a), Conductor	SI. No. 19. Maximum resistance of conductor at 20 deg C - 0.0224 Ω/km	Generally for EHV cables, uncoated (i.e. Plain) annealed copper wires are used for conductor, therefore the Maximum resistance of conductor at 20 deg.C is	
પ	Clause no. 11.7.1.1: Conductor, Section-11: Customer TS for 400kV XLPE Cables	11.7.1.1 Gonductor: Conductor shall consist of uncoated annealed copper wires in accordance with IEC 60228	Please note that as per Table-2 of IEC 60228, the shape of conductor shall be compacted circular upto and including 1000 Sqmm and segmented circular from 1200 Sqmm and accordingly conductor for 800 Sqmm shall be compacted circular.	Noted as per IEC 60228 standard and in line with the Technical Specification.
			Please confirm.	
w	Clause no. 11.7.1.3: Insulation, ii), Section-11: Customer TS for 400kV XLPE Cables	11.7.1.3 Insulation ii) Electrical stress shall not exceed 75 KV/mm under impulse withstand test at 1425 KV peak.	Required electrical stress value at impulse i.e. 75 kV/mm is very less and to meet this stress value very a high thickness of Insulation is required which is not feasible to extrude. The stress is amend the caluse accordingly.	Electrical Stress specified in clause IT.1.7.1.3 (ii) Shall be considered for designing of cable (i.e.) Electrical Stress shall not exceed 75kVmm under impulse withstand test at 1425 KV
φ	Clause no. 11.10.1: Routine Tests, a) & b), Section 11: Customer TS for 400kV XLPE Cables		Please note that, the tests sr, no. a) & b) are applicable as Sample/ Acceptance tests & not routine tests.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project requirement.
7	Section-11: Customer TS for 400kV XLPE Cables	11.7.2.1 Cable Termination / sealing ends b) SF6 Indoor Termination / Sealing End The housing of the SF6 Indoor termination / The housing of the Bre indoor termination / The housing end shall be of porcelain / epoxy resin insulator type suitable for use with SF6 gas	Please darify which type GIS termination is necessary (Dry type or Fluid filled type)	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project and GIS OEM requirement.
ω	BOQ1: Item SI. No 1.11	bles with limited shelf life le for cable system	Kindly confirm/provide list of consumables required.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project requirement.
	BOQ1. Item SI. No 1.13	Supply- Hand Tools along with rack	Kindly confirm/provide list of tools required.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project requirement.
III. Bidder 3				

CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS	Please comply TS & BOQ (Doc No. TB-382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project requirement.	Noted as per IEC 60228 standard and in line with the Technical Specification.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00) in line with applicable IEC duly meeting the requirement of earth fault current of 40kA for 1 second.	Electrical Stress specified in Clause 117.1.3(ii) shall be considered for elesigning of cable (i.e.) Electrical Stress shall not exceed 75KV/mm under impulse withstand test at 1425 KV	Please refer the drawings attached with TS.		Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project		Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev (0), however, details shall be finalized during detailed engineering stage as per project requirement.
BIDDER'S CLARIFICATIONS	As per tender document you shared to us, Required Sheath Induced Voltage value should be less than 65V. The cable length is 4200m and we have calculated ovalue should be less that 65V. The cable length is 4200m and we have calculated in that case, sheath induced voltage is 79.4V which is more than required value. This value has calculated under the condition of Single point bonding without middle jointing based on BOO. For this issue, we kindly ask 3 options for you to choose one and after that, please let us know. For the route as single point bonding system without middle jointing neglecting sheath induced voltage. Of course, this option is dangerous and has high possibility of arguing with customers because sheath induced voltage is too high (79.4V). I do not recommend this option. For the route as single point bonding system including Jointing 6 sets for reducing sheath induced voltage, in that case, sheath induced voltage is 39.4V, request, the price of supply and installation of middle jointing should be addeed so the total price would be increased. 3. Form the route as both and bonding system instead of single point bonding. The cand could select Linkbox without SVL (LBE 3-1 way type) on gas insulated switchgear sealing end side.	Please note that as per Table-2 of IEC 60228, the shape of conductor shall be compacted circular upto and including 1000 Sqmm and segmented circular from 1200 Sqmm and accordingly conductor for 800 Sqmm shall be compacted of the compacted of the shape of the shape of the shape of the specific please confirm.	Please clarify whether the Metallic sheath shall be of corrugated aluminium sheath type OR laminated aluminium tape OR lead sheath type as additional copper wires are required for carrying the earth fault current of 40kA for 1 second in case of Laminated aluminium tape type and lead sheath type metallic sheath.	Please note that two different electrical stresses have been specified in the Technical Specification i.e., Clause 4.0 St. No.30, Clause 11.7.1.2 & 11.7.1.4 stipulates that the Electrical stress on internal semiconducting laper shall not be more than 1kV/mm & Electrical stress on outer semiconducting layer shall not be more than 7kV/mm whereas Clause 11.7.1.3 (ii) specifies that the Electrical stress shall not exceed 7kV/mm under impulse withstand test at 1428/v. Please confirm which electrical stress is to be considered for designing the cable.	Please clarify the tunnel dimension i.e., Height of tunnel & Width of tunnel for calculating the current rating.	The desscription of all these Line liems states the Termination as Indoor/ Outdoor. Please note that Indoor & Outdoor Terminations are two different entities having different design and price, hence, for clarity, please specifically stipulate the type of Termination required against all these Line Items.	Please note that consumables are supplied along with the Joints & Terminations. These materials are not supplied separately, hence, please delete this line item from the BOQ.	Please delete this line item as no special tools, tackles & equipments are required for operation and maintenance of the installed cable system.	Please delete this line item or elaborate what & which type of hand tool is required?
DESCRIPTION OF TS CLAUSE	38. Sheath voltage: Sheath voltage to ground under normal operating condition shall not exceed 65V 38. Screen earthing method: Single point bonding	Clause 4.0 St. No. 17 stipulates shape of conductor as "stranded circular single! segmented circular & Clause 11.7.1.1 specifies conductor shape as "compacted or segmented circular".	Clause 4.0 Sl. No. 20 stipulates Metallic sheath (i.e. Inner sheath material) as "Extuded corrugated aluminium Laminated Aluminium tape". & Clause 11.7.1.6 stipulates that "cable inner sheath shall consist of extuded and corrugated aluminium/ laminated aluminium tape/ lead".	Clause 4.0 St. No. 30, Clause 11.7.1.2 & 11.7.1.4 states that Electrical stress on internal semiconducting layer shall not be more than 16kV/mm & Electrical stress on outer semiconducting layer shall not be more than 7kV/mm and Clause 11.7.1.3 (ii) specifies that Electrical stress shall not exceed 75kV/mm under impulse withstand test at 1425kV for insulation.	Annexure-1 Page 1 of 2 sectional view of ventilated cable tunnel	Supply-High Voltage Power Cable: Indoor/Outdoor Termination Kit	Supply-high voltage power cable : Consumables with limited shelf life suitable/compatible for cable system	Supply-high voltage power cable: tools, tackles & equipment required for operation and maintenance of Xpe cable system	Supply-high voltage power cable: hand tools along with rack
DOCUMENT NO./ CLAUSE NO./ PAGE NO.	Doc No. TB-382-316-005 Rev 00 SECTION - 1, Clause no.3, Specific Technical Requirements	Doc., No. TB-382-316-058, REV 05 Clause No. 4.0 Cables Parameters Sl. No. 17 & Clause No.17.7.1. Section-11: Customer TS for 400kV XLPE Cables	Doc. No. TB-382-316-058, REV 05 Clause No. 4.0 Cables Parameters SI. No. 20 & Clause No. 11.7.16, Section-11: Customer TS for 400kV XLPE Cables	Doc. No. TB-382-316-058, REV 05 Clause No. 4.0 Cabbes Parameters SI, No. 30 & Clause No. 11.7.12, 11.7.13 (ii) & 11.7.14, Section-11: Customer TS for 400kV XLPE Cables	Annexure-1 Page 1 of 2	BOQ SI. No. 1.04, 1.05, 1.15 & 1.16	BOQ SI. No. 1.11	BOQ SI. No. 1.12	BOQ SI. No. 1.13
SL. NO.	——————————————————————————————————————	IV. Bidaer 4	2	ю	4	ιΩ	ω	7	ω

SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF TS CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
σ	BOQ SI. No. 1.20	Spares- high voltage power cable: any other item not listed above but are required for completeness of installation & commissioning of system	We do not envisage any additional spares, hence, please delete this line item or elaborate what & which type of spare is required?	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project requirement.
10	BOQ SI. No. 2.09	Jointing of 400kV staight through joint	The requirement is of installation of Joint whereas it has been elaborated as Termination work. Please correct the same.	Please refer BOQ item no. B.3 of TS (Doc No. TB-382-316-005 Rev 00), wherein Straight through joint is part of spares, accordingly, any requirement of service shall be treated under mentioned item.
=	Doc. No. TB-382-316-005 Rev 00, page 8 of 18	Bidder shall submit detailed calculation of alittude correction factor during detailed engineering stage	Please let us know the altitude of the place where the Termination is to be installed.	Please refer the drawings attached with TS (Altitute of Pothead yard is EL1101.1, at which oudoor sealing end shall be fixed on structure.
12	Doc. No. TB-382-316-005 REV 05, page 8 of 14	Clause No. 6.0 Guaranteed Power Losses in Cable	This Clause states that the penalty shall be levied/ recovered at the rate of INR 1,50,000KW whereas Claause No. 11.6.3 states that penalty for losses will be recovered from the supplier at the rate of INR 3,80,000 per KW. Please confirm the correct rate for loss capitalization.	Please refer clause 9.0, section-1 of TS (Doc No. TB-382-316-005 Rev 00).
13	General		Please confirm that supply & erection of Outdoor Termination Steel mounting structure along with construction of its civil foundation is not in bidder's scope.	Noted in line with TS & BOQ (Doc No. TB-382-316-005 Rev 00).
14	General		Please confirm whether the GIS Termination to be supplied is of dry type OR oil filled type.	Please comply TS & BOQ (Doc No. TB- 322-316-005 Rev 00), however, details shall be finalized during detailed englineering stage as per project and GIS OEM requirement.
15	General		Please provide Cable Head Box drawing of GIS to select the suitable Terminations for the project.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00) along with applicable IEC.
16 V Diddov R	General		Please confirm that BHEL would obtain the Right-of-Way (RoW) permission and make payment for the same directly to the concerned authorities.	The cable route is well within the project premises, hence there is no requirement of Right-of-Way (RoW).
-	Doc. No. TB-382-316-005 Rev 00 Section-1, Clause No. 3.1 : Specific Technical Requirements. Clause 11.9, Section-11: Customer TS for 400kV XLPE Cables.	Type of cable: Volve, V.CxxXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX	The metal sheath is mentioned as: Corrugated aluminium / Laminated aluminium tape. As this has a cost implication, request confirmation whether to offer Corrugated aluminium? Laminated aluminium tape.	Please comply TS & BOQ (Doc No. TB- 362-316-005 Rev 00).
7	Doc. No. TB-382-316-005 Rev 00 Section-1, Clause No. 3.20 : Specific Technical Requirements Clause 11.9, Section-11: Customer TS for 400kV XLPE Cables		In order not to limit the bidding, request clarification/ amendment to this as: Existing, Extruded corrugated aluminium / laminated aluminium tape To be amended as: Extruded/, Seam Welded Corrugated Aluminium OR Naminated aluminium tape/, Seam Welded Smooth Aluminium Tape.	Kindly comply the short circuit design requirement as per technical specification.
ю	Doc. No. TB-382-316-005 Rev 00 Section-1, Clause No. 3.20 : Specific Technical Requirements-Notes Page 6 of 18 Clause 11.122, Section-11: Customer TS for 400kV XLPE Caples	above, bidder shall also submit the following design jraph showing the voltage gradient along the radii of and insulation for 1000A continuous current at different power eno l.0.9 (over-excited) to 0.9 (under excited).	Request re-confirmation on 0.9 (under excited) i.e. can we read it as : 0.7 (under excited) or not.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00) along with applicable IEC.
4	Doc. No. TB-382-316-005 Rev 00 Section-1, Clause No. 4.00 : Specific Technical Requirements- Notes Page 6 of 18	5. Construction supply: For construction requirements, the necessary power supply at site shall be provided by BHEL at one point only, however supply requirements for HV AC/OC testing etc. shall be arranged by bidder only. Power supply provided shall be on chargeable basis. 9. Site Testing & Commissioning Tresting instruments kits including HV AC/OC testing kit and partial discharge measurement equipment for field test, if required shall be provided by bidder along with valid calibration certificate.	In respect of the following seek BHEL specific clarification since it has the cost implication. 'However, supply arrangements for HV AC / DC testing etc. shall be arranged by bidder only.' Here, it guides as "if required". Request specific confirmation whether this is to be considered in the bid prices or not.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00).
w	Doc. No. TB-382-316-005 Rev 00 Section-1. Clause No. 4.00 : Specific Technical Requirements- Notes	12. Basic Arrangement: 17. Basic Arrangement: 18. The two nos. 2000 V outgoing GIS line feeder bays located at EL 11045 shall be connected to 4000 V pothead yard located at EL 1100.39 by 1Cx800sqmm Copper conductor XLPE cable per phase running inside the tox800sqmm Copper conductor XLPE cable shall run between by Spare 1Cx800sqmm Copper conductor XLPE cable shall run between two nos. GIS line feeders and pothead yard. Spare cables shall be placed with end cap without termination at GIS end and on ground with end cap without termination at GIS end and on ground with end cap without termination at GIS end. Spare cable shall be kept beyond the farthest end at both side, so that it may be connected to any phase whenever required as per future requirements.	It is indicated that the spare cable shall run between two nos. GIS line feeders and pothread yard. Since this will not facilitate connection to any phase whenever required, Request conrection Calfortication as Calfortian and Calfo	Please comply TS & BOQ (Doc No. TB- 822-316-005 few 00). However, final details shall be finalized during detailed engineering stage as per project requirement.

DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF TS CLAUSE Bidder may please be noted that the exact cable length shall be decided	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
after joint ra at contract determined Consultant, a The Payr quantities b b The Payr	ing stores to invoice that are executed by the stores of t	Since the cables in some specific drum lengths as per approval shall only be brought's uspipled in exact quantities required for the project, and the same shall be brought's uspipled in exact quantities required for the project, and the same shall be such there will be no lengths stands un-installed. Therefore, it is requested for correction as: "The Payment of cables length installation will be for the full lengths approved supplied lengths, which when duly reconciles with the technical cuts lengths."	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00).
	artial	This appears to be a typographical error. Hence, request correction as: 'Cable bending test and partial discharge test at ambient temperature followed by installation of accessories at ambient temp."	Noted in line with Applicable IEC.
Superior quality. Ray quality. Ray reliability strains cable & its inspected a my supplie and workm requiremer (400kv XLF) bidder's so	Superior quality control system shall be adopted to assure high product quality. Raw materials of the best commercial grade quality and high reliability. Raw materials of the best commercial grade quality and high reliability. Raw materials of the best commercial grade quality and high reliability shall be used in the manufactured, inspected and tested by vendroif sub-vendro as per approved quality plan. The same girne supplier shall perform all tests necessary to ensure that the material Test Report and workmanship conform to the relevant standards and comply with the requirements of the specification. Charges for all tests for the equipment (400kV XLEC cable & its Accessories) shall be deemed to be included in bidder's scope.	In order to leave no stone un-turned, this may please be indicated as: The same grade of raw materials which were declared in the successful "Type Test Feort" are only required to be procured and used in the manufacture of the equipment.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00).
2.5.	A.2: Bonding cable along with accessories sqmm for B. A.3: Earthing continuity cable along with accessories specify the	Please confirm that for the bidding purpose, can we consider 6.6 kV (UE) 300 sqmm for BOC cable or not. If no, please specify the size and voltage grade.	Please comply TS & BOQ (Doc No. TB- 382-31-600 Rev (0)). However, final details shall be finalized during detailed engineering stage as per project requirement in line with applicable IECs.
C 9: Servic Jointing kit, XLPE cable all respect 1. Terminal and workin 2. Terminal pointer duly customer. 3. Any other not limited not limited not limited in this is of (1 set= 1-p)	C.9. Service Item: Cable Accessories—Jointing of 400kV, Straight Through Jointing kit, compatible for 400kV, 1Cx800sqmm, Copper Conductor XLPE cable, Jointing of Straight Through Jointing kit shall be complete in all respect and comprising of following but not limited to. 1. Termination work shall include all necessary arrangement for access and working such as temporary tent with controlled climate etc. 2. Termination work shall necked all necessary arrangement for access and working such as temporary tent with controlled climate etc. 2. Termination you EM and approved by BHEL/ consultantly usustomer. 3. Any other service(s) required to complete the work in all respect but not limited to above shall be in bidder's scope. 4. This is optional item and it shall be done at site as per requirement.	responding item is required for supply, please confirm whether the tem be mentioned or request deletion of this item. Please clarify.	Please refer BOQ item no. B.3 of TS (Doc No. TB-382-316-005 Rev 00), wherein Straight through joint is part of spares, accordingly, any requirement of service shall be treated under mentioned item.
Note: 2. Altitu outdooi	Note: 2. Altitude correction factor will be applied for outdoor termination and 0.89 is in or outdoor pothead equipment.	Request confirmation on the correctness of this factor when consider the same as 0.38 is in order or not.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00). However, final details shall be finalized during detailed engineering stage as per project requirement in line with applicable IECs.
g) Pre-com XLPE cable bays or any		istance	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00). However, final details shall be finalized during detailed engineering stage as per project requirement in line with applicable IECs.
I) Linear he protection and supply BHEL, byy BHEL, formation shall be pr		Please provide the details of LHS cable and quantity for selection of Cable clamps etc. which has a cost implication. Also confirm whether commissioning this LHS Cable system is in the bidder scope or not.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00). Such requirements are not covered under bidder's scope.
h) Outdoor Se Sealing enc Sealing enc have suffic mechanica The colour minimum c shall be mi from the su	In Outdoor Sealing End Termination. Outdoor sealing and shall be pre-moded type. The housing of the outdoor Sealing and shall be porcelain' epoxy resin of uniform quality and shall have sufficient strength against mechanical, electrical and thermal stresses. The colour of porcelain' epoxy resin insulator shall be brown and the minimum creepage distance in millimeters per unit of the highest voltage shall be minimum 25mm/k V. The outdoor sealing end shall be insulated from the supporting structures.	Please confirm whether the housing be porcelain (Brown colour) or epoxy (Grey colour) is to be considered since there is a considerable cost implication.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details shall be finalized during detailed engineering stage as per project and GIS OEM requirement.

SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF TS CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
5	Doc. No. TB-382-316-005 Rev 00 Section-2. Doc. No. TB-382-31 6-056, REV 05 Clause 5.00: General Design Aspects	i) SF6 indoor Termination / Sealing End: Indoor sealing end shall be pre-fabricated type. The housing of the SF6 Indoor remmator sealing and shall be of procelarir epoxy resin insulator type suitable for use with SF6 gas and shall have sufficient strength against mechanical, electrical and thermal stresses.	The Indoor sealing end shall be Pre-moulded type and shall have only epoxy resin insulator. Please confirm the same is in order for offering.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00), however, details staff be finalized during detailed engineering stage as per project and GIS OEM requirement.
91	Doc. No. TB-382-316-005 Rev 00 Section-2, Doc. No. TB-382-31 6-056, REV 05 Clause 5,00: General Design Aspects	I) Termination/ Sealing End Supporting Structure: Supporting structure for outdoor termination/ sealing end shall consist of Supporting structure for outdoor termination/ sealing end shall consist of death structure shall be supplied complete in all respect with necessary embedment, hardware, earthing material etc. The zinc coating shall be uniform, clean, smooth and free from spangle as possible. The zinc coating shall weigh not less than 0.61 Kg/sqm over the area covered and not less than 0.09 mm in thickness.	However, as per, 12. Exceptions 17. Exceptions 17. Exceptions 17. Cable support structure for Cable sealing end shall not be in bidder's scope. It shall be supplied and erected by BHEL/ its contractor. It appears to be not in the bidder's scope. Please re-confirm the same.	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00). However, final details shall be inalized during detailed engineering stage as per project requirement in line with applicable IECs.
17	Doc. No. TB-382-316-005 Rev 00 Section-2, Doc. No. TB-382-31 G-058, REV 05 Clause 8.4. General special tools & tackles, testing instruments required for erection, testing & Gommissioning Operation & Maintenance	Note: 1. Size of bonding cable shall be intimated after ordering of cables.	Please confirm for the bidding purpose, can we consider 300 sq.mm size or not?	Please comply TS & BOQ (Doc No. TB- 382-316-005 Rev 00). However, final details shall be finalized during detailed engineering stage as per project requirement in line with applicable IECs.
81	Doc. No. TB-382-316-005 Rev 00 Section-2, Section-11: Customer TS for 400kV XLPE Cables	However, as referred below, spare cable shall be faid in the tunnel and its outdoor termination end shall appear cable shall be faid in the tunnel and its outdoor termination end shall appear cable shall be faid in the tunnel and will be connected to the spare ACSR bare conductor to spare and will be connected to the spare above shall be be connected to the spare spare and spare above shall be performed on the spare cable shall also be connected with the SFS indoor also by connecting it to any one of the outgoing GIS feeder bays. However the GIS and terminal shall be kept beyond the farthest end of outgoing GIS feeder bay in the GIS hall be performed on the spare above shall be faithest end of outgoing GIS feeder bay in the GIS hall be spare above shall be faithed to any phase whenever required. These are to be left without terminations. However required.	all be opper oppos. or with set ed as	Please comply TS & BOQ (Doc No. TB-382-316-005 Rev 00). However, final defaults shall be finalized during detailed detaile shall be project requirement in line with applicable IECs.
6	Doc. No. TB-382-316-005 Rev 00 Section-2, Section-11: Customer TS for 400kV XLPE Cables	11.6.3 The losses shall be indicated as firm. On testing, if it is found that actual losses are more than the values quoted, penalty will be recovered from the supplier at the rate of INR 3,80,000 (INR Three Lakhs Eighty Thousand) per KW or its equivalent in bid currency for each KW of excess in losses.	However, as referred below, Note: Note: The bidder shall guarantee the above parameters of XLPE power cables and the same shall be verified at the manufacturer's works. However, in actual supplied 400kV XLPE cable, if it is found that actual losses are more than the supplied 400kV XLPE cable, if it is found that actual losses are more than the young guaranteed above, penalty shall be levied/ recovered at the rate of IMR 1,50,000,00 1,50,000,00 Please confirm which rate to be understood as correct.	Please refer clause 9.0, section-1 of TS (Doc No. TB-382-316-005 Rev 00).

			ANNEXURE- BIDDERS' PRE-BID COMMERCIAL CLARIFICATIONS	
Tender Enquiry/ NIT I	Tender Enquiry/ NIT N 92G2400174 dated 15.09.2023/ 92G2400174	/ 92G2400174		
Item/ Material:	400kV XLPE Cable & accessories	Se		
Project:	400kV GIS Project for Vishnugad	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				
			We have successfully supplied 420KV XLPE Cable system and our supplied 420KV cable system are Type Tested and PQ Tested, Since Manufacturing of 420KV XLPE cable has started in India just 3-4 years back, Hence we hereby suggest following Technical PQR:	
	A) Technical PQR Technical Ourlifeing	The bidder must have experience in design, manufacture and supply of 420kV (Um) single core conductor of min. 600mm2 copper or equivalent cross sectional area	"The bidder must have experience in design, manufacture and supply of 420kV (Um) single core conductor of min. 600mm2 copper or equivalent cross sectional area Cross Linked Poly Ethylene (XLPE) insulated power cables in last 10 years as on scheduled date of submission of technical bid called upon by BHEL (i.e. proposed tender), and the supplied cable systems should be PQ Tested before commercial supply."	
~	Requirements & Experience For 400kV XLPE Cable & its	Cross Linked Forly Enrylette (ALFE) insulated power cables, which shall have been in successful trouble free operation for at least 2 successive vacers in last 10 years offer	Kindly Accept the above proposed PQR or otherwise allow us to submit the Technical As PQR through Technical Collaborator's Credential as per following PQR:	As per NIT
	45000000000000000000000000000000000000	successive years in test to years after commissioning as on scheduled date of submission of technical bid called upon by BHEL (i.e. proposed tender).	"The bidder must have experience in design, manufacture and supply of 420kV (Um) single core conductor of min. 600mm2 copper or equivalent cross sectional area Cross Linked Poly Ethylene (XLPE) insulated power cables, which shall have been in successful trouble free operation for at least 2 successive years in last 15 years after commissioning as on scheduled date of submission of technical bid called upon by BHEL (i.e. proposed tender)."	
			We hereby enclose some PQR document of other HEP and Power Utility which allows Collaborator's Credentials for your reference. 1. NHPC, 2. TANTRANSCO.	
2	ANNEXURE-II	A. For items except BOQ Item Sr No 1.10-1.13	Please refer our proposed revised Activity Schedule Annexure-II for Item Except BOQ RItem Sr. No. 1.10-1.13	Revised and revised activity schedule enclosed.
က	ANNEXURE-II	For BOQ Item Sr No 1.10-1.13	sed revised Activity Schedule Annexure-II for BOQ Item Sr No	Revised and revised activity schedule enclosed.
4	Clause No. 13 of GTC(Supply portion) / Clause No 15 of document No: BHEL/TBG/GTCETC/ 2016/Rev 01	LD shall be levied for delay in execution of Purchase Order as per below. a) In case of delay in supply of material beyond the contractual delivery time allotted for supply, an amount of 0.5% of the total Purchase Order value* per week of delay or part thereof subject to a maximum of 5% of the total Purchase Order value* shall be deducted as Liquidated Damages (LD) along with applicable GST (if any) on LD. b) In case of delay in providing the services beyond the contractual completion time allotted for services, an amount of 0.5% of the total Purchase Order value* per week of delay or part thereof subject to a maximum of 5% of the total Purchase Order value* shall be deducted as Liquidated Damages (LD) along with applicable GST (if any) on LD and the specific intimation thereof shall be given to the supplier immediately via mail or letter or online portal.	Since this is a turnkey contract LD should not be deducted on the basis of delay of particular Supply item, it should be deducted on overall basis i.e. delay after complete. At delivery period, So we hereby request to amend the LD Clause accordinigly.	As per NIT

SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
ω	ANNEXURE - XVI	Price adjustment for the supply of 400 kV XLPE Cable Ca=[{Acu-Bcu}*Vcu] + [{Aal-Bal}*Val]	We hereby suggest to accept IEEMA Price Variation Formula because it is more praticaL and acceptable to almost all Power Utility and PSUs. Copy Enclosed	As per NIT
II. Bidder 2				
-	Additional General Terms and Conditions:	Prices shall be firm for the total contract period and no price variation shall be applicable.	Kindly confirm, Price Variation for 440KV XLPE EHV Cable is applicable.	Price Variation ia applicable for supply of 440KV XLPE EHV Cable only.
N	Price Variation Formula: Annexure XVI	Price adjustment for the supply of 400 KV XLPE Cable Ca=[{Acu-Bcu}*Vcu] + [{Aal-Bal}*Val]	We request you to consider latest IEEMA Price variation circular, as US Dollar rate is also inflated and varies up& down.	As per NIT
ო	Liquidated Damages: (STC CI No 10, Pg No 12)	min 0.5% % max. 5% of Purchase order value***Total Purchase Order Value for considering Liquidity Damages(LD)= (Total Exworks +F&I +Total Service charges excluding GST).	We request you to consider, LD %should be calculated on separate PO's i.e. Supply OR Spares or Services values and it should not be calculated on combined order value.	As per NIT
4	Υ σ	A)Technical PQR Technical qualification requirement & Experience for 400 KV XLPE cable and its accessories. The bidder must have experience in design, manufacture and supply of 420KV (Um) single core conductor of min. 600sqmm copper or equivalent cross section area cross linked poly ethylene (XLPE) insulated power cables. Which shall have been in successful trouble free operation for atleast 2 successive years in last 10 years after commissioning as on scheduled date of submission or technical bid called upon by BHEL (i.e. proposed	A)Technical PQR Technical qualification requirement & Experience for 400 KV XLPE cable and its accessories. The bidder must have experience in design, manufacture and supply of 420KV (Um) single core conductor of min. 600sqmm copper or equivalent cross section area cross linked poly ethylene (XLPE) insulated power cables, Which shall have been in successful trouble free operation for alteast 2 successive years in last 10 years after commissioning as on scheduled date of submission of technical bid called upon by BHEL (i.e proposed tender). Alternatively, the manufacturer, who have established manufacturing and testing facilities in India based on technological support of collaborator/parent company and not meeting the requirement stipulated above can also participate provided that the collaborator/parent company meets the above requirement	As per NIT
III. Bidder 3				
NA				
IV. Bidder 4				

SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
-	Annexure-I: Prequalifying Requirement:- 400kV XLPE Cable & Accessories	A) Technical PQR (Technical Qualifying Requirements & Experience For 400kV XLPE Cable & its accessories): The bidder must have experience in design, manufacture and supply of 420kV (Lm) single core conductor of min. 600mm2 copper or equivalent cross sectional area Cross Linked Poly Ethylene (XLPE) insulated power cables, which shall have been in successful trouble free operation for at least 2 successive years in last 10 years after commissioning as on scheduled date of submission of technical bid called upon by BHEL (i.e. proposed tender). Requisite documents: I Performance certificate issued by end customer without any adverse remark(s), consisting the proof of experience of design, manufacture, supply and commissioning.	We would like to draw your kind attention on the Qualification requirement (Annexure-I: Prequalifying Requirement: 400kV XLPE Cable & Accessories), which clearly violates the MARKE IN INDIA Policy of the Govt of India (Ministry of Power Order No 11/05 2018 Coord DL28. 7.2020). As per the above order of Ministry of Power, it is amandatory on the part of purchaser to procure items defined in Annexure –1 of the above order from Local suppliers i.e., from Indian manufacturers only for the Hydro Power Plant being built in India. However, the Qualification Required to the above tender is such that no Indian Manufacturer would be in position to participate in the above tender despite having all the required manufacturing capacity & capability to produce & install the tendered items (400 KV cable). In fact, the last tender floated by BHEL for ARUN-III Project was also followed the manufacture who have the required manufacture 400 KV XLPE cable to participate in the tender through the technical collaborator route and the credentials of technical collaborator was considered for the purpose of meeting the Qualification requirement. We, therefore find it difficult to comprehend the reasons of framing the Qualification Requirement of the tender in such a way that no Indian Manufacturer gots qualification Requirement of the requisite capability to Manufacture 400 KV XLPE cable to participate in the tender requisition continued and arrange to amend the existing qualification criteria (TECHNICAL PQR) as per below. A)TECHNICAL PQR) as per below. A)TE CABINE XIR as accessories The bidder must have experience in design, manufacture and supply of 420kV (Um) single core conductor of min. 600mm2 copper or equivalent crose-sectional area	As per NIT
2	Special Terms & Conditions	SI. No. 22, Validity of Purchase Order: 4 years from the date of PO with applicable PV.	onfirm	As per NIT
в	Additional Terms & Conditions	SI. No. b) & c) states that Unpriced copy of Price Bid is to be furnished along with Techno commercial bid.	As this bid is to be submitted online, please confirm that submission of unpriced price bid in hard copy is not applicable.	To be submitted alongwith technical bid in online mode on GeP NIC Portal.
4	General Terms & Conditions for Clause No. 1.2 states that the Tender submitted/dropped in the Enquiry/Contract tender box.	Clause No. 1.2 states that the bid is submitted/dropped in the tender box.	As this bid is to be submitted online, please confirm that this clause is not applicable.	Not applicable and Tender to be submitted online on GeP NIC Portal.
5	Additional General Terms & Conditions for Tender Enquiry/Contract	Clause No. 2 Prices states that "Prices shall be firm for the total contract period".	o o	Price of 400kV 800mm2 cable shall be variable and price of other components shall be firm.
9	Price Variation Formula, Annexure-XVI	Ca= Adjusted Unit price after variation per km (USD/km)	The formula addresses only the price quoted in USD. Please elaborate how it will be calculated in INR as no exchange rate factor has been mentioned in the formula.	Please refer Note 2 of Annexure-XVI.
7	Price Variation Formula, Annexure-XVI	Condition applicable to Price adjustement	Point No. 2 specifies that the date of adjustment shall be the midpoint of the period of manufacture. Please elaborate how this midpoint of manufacture will be determined in the course of manufacture of 400kV cable.	Mid Point= Total manufacturing time as per activity schedule/2
V. Bidder 5 (M/s SV P.	V. Bidder 5 (M/s SV Power Links Private Limited)		•	
- 2	Prequalifying Requirement	Annexure - XIII	Please confirm that the size mentioned here is 800 mm² of higher or not. We note that duly filled document of this Annexure-VIII appears to be in the scope of BHEL as a post contract to the Owner. Please clarify.	As per NIT Based on Input from supplier, BHEL will submit to THDC.
ო	STC, Page: 3 of 18	Supply (Foreign Bidder)	Please clarify whether there is any Concessional Customs Duty applicable for this specific project or not.	Concessional Customs Duty,if applicable shall be intimated to all bidders and benefit will be provided accordingly.

SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
			For Supply for Foreign Bidder: 99% within 90 days after commissioning is not possible to accept.	
4	STC, Page: 4, 5 & 6 of 18	Terms of Payment:	Hence, request to amend the same as: 10% advance against ABG 80% along with full duties, taxes against LC 5% on pro-rate installation against LC 5% on commissioning against LC.	As per NIT
			No payment terms indicated could not be seen in the bidding documents for Services Portion i.e. ETC.	
			Request indication of the same.	
w	STC, Page: 8 & 9 of 18	In case such delivery plan is considered acceptable by BHEL, the offer shall be loaded with 0.5% of total cost to BHEL after considering the GST input (in case of Indian bidder) calculated based on price quoted by the bidder for the period for which delivery period sought by bidder exceed the delivery period mentioned in Activity schedule (Annexure-II).	Request clarify that 0.5% is per week or not when the bidder is not meeting the specified period.	Confirmed
			1. Request acceptance of this at 0.5% per week or part thereof subject to a maximum of 5% of the value of the delayed portion for supply and services.	
ω	STC, Page: 9 & 10Th of 18	9	 However, "" Total PO Value indicated appear to be for Domestic Bidder. Request please indicate the same for Foreign Bidder too. 	As per NIT
2	ATC, Page: 3 of 10	vi) Involvement of representative:	Request clarification whether we, XYZ Ltd., who are the experienced installers of 400 kV XLPE Cables, can submit the bid directly with the Authorization Letter from OEM or not for the complete scope of the tender i.e. Supply + Services. If yes, request please provide the required Format of such authorization letter.	As per NIT
ω	AGTC, Page: 2 of 5	Idle Labour Charges: No idle labour charges will be admissible in the event of any stoppage of work resulting in the contractor's workmen being rendered idle due to any reason at any time.	Request clarification that this applicable only when the reason which is attributable to the Contractor.	As per NIT.
ō	Tender Notice Critical Dates	Document Download / Sale End Date: 13.10.2023 11.00 A.M Clarification End Date 13.10.2023 10.55 A.M Bid Submission End Date 13.10.2023 11.00 A.M Bid Opening Date 13.10.2023 04.00 P.M	On receipt of the required clarifications against these pre-bid queries, a pre-bid survey is mandatorily being carried out. Hence, request that these critical dates be extended by 30 days from the date of providing the required clarifications against these Pre-Bid Queries.	Already extended two times and further extension will be provided for bid submission.
10	On – Line Price Schedule BOQ 1 & BOQ 2	Name of work: Supply and Services of 400 kV Cable and Accessories for Arun 3 Project.	Request suitable correction to the Project Details.	Please read "Vishnugad Pipalkoti" project in place of "Arun-3".

SL. NO.	DOCUMENT NO./ CLAUSE NO./ PAGE NO.	DESCRIPTION OF CLAUSE	BIDDER'S CLARIFICATIONS	CUSTOMER/ CONSULTANT/ BHEL REPLIES/ CONFIRMATIONS
		Ne publicy (2001) per (ptil.)) Mandry of Comment of I reds. Department for Procurement Section) (Public Procurement Section) Layon Bhowan, New Deni	BHEL-TBG is well aware that there EXISTS "NO" DOMESTIC MANUFACTURER FOR DESIGN AND MANUFACTURE OF THE REQURIED ACCESSORIES FOR 400KV CABLES WHICH IS A DIFFERENT MANUFACTURING ACTIVITY IN TOTAL AND IN ABSENCE OF THESE ACCESSORIES THE SAID 400KV CABLES SHALL BECOME REDUNDANT.	
7	Govt. of India, Make in India	All Central Ministres/Departments/CPS/IA/AII concerned $\frac{OR\ D.E.R.}{OR\ D.E.R.}$ Subject: Public Procurement (Preference to Make in India), Order 2017- Revision:	Under the circumstances, request BHEL-TBG to clarify how this ORDER be applied to this tender.	Please refer Circular issued from MoP in
:	ORDER	терибия.	It is to be mentioned that at times, due to their (accessories) critical technical specific requirements, these might cost more than the cable itself which in this tender is a very small size i.e. 800 sq.mm and also in small quantity.	Nov-21/ As per NIT.
			Further this being a non-divisible contract based tender, request clarification to the arrival of establishing local content.	

ACTIVITY SCHEDULE [ANNEXURE II] A. For items except BOQ Item Sr No 1.10-1.13

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#	16	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	10	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] For BOQ Item Sr No 1.10-1.13

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

SL. NO.	ACTIVITY	TIME ALLOTED	SCOPE
		[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.	4	IN SCOPE OF SUPPLIER
3.	Issue of manufacturing clearance (MFC) from BHEL as per readiness of Site	10	IN SCOPE OF BHEL
4.	Manufacturing time for each lot after issuance of Manufacturing Clearance (MFC) by BHEL#	13	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 weeks 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.