

ODISHA POWER TRANSMISSION CORPORATION LIMITED**CORRIGENDUM NO-03****NOTICE INVITING TENDER -NIT NO-CPC-32/2023-24****TENDER DOCUMENT No: Sr. GM-CPC-e-Tender-132kV SC UG Cable-Mendhasal-Chandaka-32/2023-24.**

Name of the project:- Engineering, Supply, Erection, Testing and Commissioning of 132kV SC line through UG cabling with one spare cable from 400/220/132/33kV GSS Mendhasal to 220/132/33kV GSS Chandaka with one no 132kV bay extension at both ends, Mendhasal & Chandaka ON TURNKEY CONTRACT BASIS

Reply to Pre bid queries for NIT No-CPC-32/2023-24

Sl. no	Clause reference (If any)	EXISTING CLAUSE & BIDDER'S QUERY	OPTCL's Reply
1	Technical specification of 132KV Cable-Clause 1.5.3.1 –	This clause specifies that electrical stress (a) equal to or less than 6kV/mm at the level of internal semiconductor (b) equal to or less than 3kV/mm at the level of external semiconductor and also mention a note that is (However supplier has to submit the stress calculation based on 18.0 mm insulation thickness), whereas technical specification of clause 1.5.3 and data sheet of s. no. 11 (b) clearly mentioned that nominal XLPE insulation thickness 18.0 mm and which is in line with IS 7098 Part 3. Please note that to meet the electrical stress a) equal to or less than 6kV/mm at the level of internal semiconductor b) equal to or less than 3kV/mm required higher XLPE insulation thickness i.e., more than 19 mm than specified in technical specification. So please confirm XLPE insulation thickness of 132 kV cables.	Cables should comply with all requirements specified in the TS.
2	Clause 1.5.7.3	This clause specify fiber used in the power cable or supplied separately in the OFC. Kindly confirm. Please confirm the technical specification of OFC Cable which is unavailable in the tender documents.	OFC cable to be laid separately. Refer to E27 of TS.
3	Clause 1.6.1 (Type test)	Please confirm whether fresh type test shall be carried out against subjected project of existing type test report will be valid as per IEC 60840	TTR to be evaluated as per clause no 1.4.1 of "Vol-I SBD"- "04-Annexure-A (BDS)_Qualification of bidder" and relevant IS/IEC.
4	Clause 1.6.2 (Routine & Acceptance Tests	This clause specifies Fiber continuity (For FIPC) & Optical loss measurement (for FIPC). Please note that these tests will applicable when optical fiber cable is embedded into power cable. Please confirm.	Not applicable.
5	Bonding System of 132KV Cabling.	Please confirm type of bonding system to be considered (Single End bonding, Both End bonding and Cross Bonding) for this project.	To be decided during detail engineering as per bonding calculation.
6	Technical specification	Clause 1.7 (Testing) – 4 hours high voltage test has been amended as "The cable shall with stand without any	As per TS & IS with latest amendments.

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	Clause 1.7 (Testing)	failure the power frequency AC voltage of 2.5 times the rated voltage for 30 min between conductor and metallic screen at room temperature " from IS 7098 (Part-3), vide amendment no. 4. Hence AC voltage tests shall be carried out 2.5 times the rated voltage for 30 minutes only. So please confirm.	
7	Clause 7.3.1 (Acceptance tests - General)	Clause 7.3.1 (Acceptance tests - General) – In this clause reference of clause see 5.3.4 & 5.3.5 for Conductor examination & measurement of electrical resistance of conductor and of metallic screen receptively has been mention whereas we are not finding these clauses in the specification. So please review and update.	For detail test procedure refer to relevant IS/IEC with latest amendments.
8	Clause 1.6.1 (Type test)	As per present guideline May-2020 of Central Electricity Authority–Ministry of Power, Govt. of India Type Test of Cable and Cable accessories validity is 10-years from the last date of submission of bid. Kindly Confirm accordingly. We are having type test report of 132KV 1000Sqmm Cable system of Corrugated aluminium sheathed Copper conductor cable of dated within last five years as per IEC 60840 of CPRI ,Bangalore .Kindly confirm whether for this tender type test is again required or above type test report will be sufficient. But if the type test is required requesting you to kindly clarify regarding the type test procedure whether it will be happened choosing from a one sample of cable drum from the total lot of cable drum which have to supply. Please confirm regarding the additional cost of cable, type test charges, termination Kit in this case will be beared by OPTCL or contractor/manufacturer. Requesting you to allow all the cable can be dispatched immediately after successful completion of routine test & acceptance test otherwise we have to wait for the CPRI dates of type test keeping with all the other cable drum at plant which is practically uneconomical and also the CPRI dates of type test is out of anyone control.	TTR to be evaluated as per clause no 1.4.1 of "Vol-I SBD"- "04-Annexure-A (BDS) Qualification of bidder" and relevant IS/IEC.
9	Clause 7.3.6 (Acceptance tests – Short circuit test)	This clause calls the short circuit test for Power Cables will be conducted by the Supplier on the cable at CPRI Bangalore or at Manufacturer's works having requisite facilities approved by KEMA Netherlands or at NABL (India) accredited laboratory. Kindly confirm whether short circuit test shall be performed on conductor or metallic sheath i.e., corrugated aluminium sheath.	As per TS, test to be conducted on conductor & Sheath.
10	Clause 7.3.6 (Acceptance tests – Short circuit test)	This clause calls the short circuit test for Power Cables will be conducted by the Supplier on the cable at CPRI Bangalore or at Manufacturer's works having requisite facilities approved by KEMA Netherlands or at NABL (India) accredited laboratory. Kindly confirm whether existing short circuit test report will be valid for this project or fresh short circuit test shall be performed on offered cable.	SC test to be conducted in third party NABL accredited lab.

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11	132KV Cable laying route	Kindly confirm regarding the 132KV Cable laying route whether it is in private land or Odisha Govt. Land or OPTCL acquired land. Land Purchase from Private bodies will be in OPTCL scope or in contractor scope.	As per clause no 3 of "Scope of work of transmission line".
12	Road Restoration charges and Corridor Charges	Kindly confirm regarding all type of road restoration charges, bank guarantees will be in OPTCL Scope or in contractor scope and Please confirm also Corridor Charges regarding permission of Cabling work from different authority like National Highway, PWD, Local Municipality, Irrigation dept, BSNL, Oil & GAS Lines will be in OPTCL scope or in Contractor Scope.	Refer "scope of work transmission line clause no 4.15, 4.16 & civil erection price schedule".
13	OPTCL inspector travelling expenditure	Requesting you kindly confirm regarding the OPTCL inspector travelling expenditure with lodging & boarding for the supply material inspection at manufacturer premises, at outside laboratory inspection like CPRI ,Bangalore will be in OPTCL scope or in bidder scope.	As per clause no 19 of GCC (Vol-I, Section-IV) all the travelling expenses for inspection of materials to be borne by bidder. Separate corrigendum containing details will be uploaded.
14	Technical specification of 132KV UG Cable	Requesting you to kindly confirm regarding the permissible maximum drum length of 132KV 630Sqmm Cable which can be supplied. Requesting you to kindly confirm regarding the bonding system of cable and please release us the bonding diagram which has been considered as per the price schedule.	It will be around 500 mtr depending on approval of cable schedule during detail engineering.
15	Make List required	In this tender requesting you to please confirm the OPTCL- make list of different supply materials.	Refer OPTCL approved vendor list available on https://optcl.co.in/vendor_list.aspx
16	Technical specification of 132KV Cable laying Method	Kindly clarify the 132KV Cable laying method and formation also. Whether it will be in open trench or HDD methodology and in trefoil condition or in flat formation. Please release the open trench civil drawing accordingly with RCC slab position, sand position etc.	Refer to "Price Schedule".
17	Power Requirement at site.	Requesting you to kindly provide power for the erection purpose at site in free of cost.	It will be on bidder's scope.
18	Technical specification of 132KV Cable laying	We would like to inform you that lots of obstacles in the 132KV Cable is there like Upcoming Fly over, Road extensions ,DP pole ,other utility cable (33KV or 11KV),Cannel, OFC Cable , pipe line etc. In the same 132KV Cable route trees is also there. Requesting you to please confirm the regarding the above route approval for cable laying and tree cutting, Cannel, crossing	Refer "scope of work transmission line clause no 4.15 & 4.16 & price schedule".

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19	Ground Level of 132KV Cable laying trench	We would like to inform you that the ground level of total route of 132KV Cable laying is not in the same platform. Hence requesting you kindly confirm regarding the ground level consideration so that we can able to consider the 132KV Cable trench accordingly.	As per TS.
20	Technical specification of 132KV Cable laying	Requesting you to kindly provide the details civil drawing of 132KV Cable joint bay showing the civil material details.	As per TS & Scope of work.
21	Bonding Cable	In the supply schedule you have mentioned 300Sqmm & in erection its has been mentioned 240Sqmm.Kindly clarify.	The bonding cable erection is to be 300 Sq mm.
22	Technical Qualification 1.4	<p>In the Technical qualification of underground cabling work we have understood that if the bidder is having experienced having successfully erected, tested & commissioned (including civil works) of UG cable of "110kV" or above voltage level as a prime contractor. "But if the bidder is not manufacturer he has to take authorisation who is having supplied the type tested EHV cable at least (**22.90 KM) of (rated 132KV**) of same or higher current rating single core insulated cable during last 07 (seven) years, which must be in satisfactory operation for at least 01 (One) year as on the originally scheduled date of bid opening. The manufacturer must supply the required cables from its manufacturing base in INDIA to the aforesaid projects" ----</p> <p>which we have understood that the manufacturer should having supply experience of 132KV or higher Voltage Grade of 630Sqmm or higher Size Single Core insulated cable at least 22.90 KM during last 07 (seven) years, which must be in satisfactory operation for at least 01 (One) year as on the originally scheduled date of bid opening. Please confirm the above understanding.</p> <p>Please also confirm the technical qualification requirement of Supply of 132KV Cable when the bidder is having both experience of manufacturer as well as contractor.</p>	<p>As per SBD "Annexure-A (BDS)_Qualification of bidder- Clause no 1.4.1".</p> <p>"The manufacturer should have supplied the type tested EHV cable at least (**94.1 KM) of (rated 132KV**) of same or higher current rating single core insulated cable during last 07 (seven) years, which must be in satisfactory operation for at least 01 (One) year as on the originally scheduled date of bid opening. The manufacturer must supply the required cables from its manufacturing base in INDIA to the aforesaid project.</p> <p>The above clause is applicable to all types of bidders EPC as well as manufacturer.</p>
23		The manufacturer should have supplied the type tested EHV cable at least (**22.90 KM) of (rated 132KV**) of same or higher current rating single core	The manufacturer should have supplied the type tested EHV

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