Response of Pre-Bid Queries
Format for Technica **TPCODL/CCG/23-24/1000000538**
Format for Technica **Rate Contract for One Year Rate Contract for Supply of 1.1 kV Power and Control Cables at TPNODL, TPCODL & TPSODL.**

Sr. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	CCG / CQEG(Odisha Discom) Response
1	2	3	4	5
1	A. 1.1kV Cables	1.1kV Al 4CX150 Sq.mm Un-armoured Cable	Technical specification not attached,kindly provide the same.	Kindly follow Technical Specifications ENG-LV-3001. Read 1.1kV Al 4CX150 Sq.mm armoured Cable
2	B. 1.1kV Cables	1.1kV Al 1CX95 Sq.mm Un-armoured Cable	Please confirm the insulation material whether it is XLPE/PVC? If PVC then provide TS for the same	Insulation material is XLPE
		1.1kV Al 1CX150 Sq.mm Un-armoured Cable		
		1.1kV Al 1CX185 Sq.mm Un-armoured Cable		
		1.1kV Al 1CX300 Sq.mm Un-armoured Cable		
		1.1kV Al 1CX630 Sq.mm Un-armoured Cable		
3	C. CONTROL CABLE (CU)	10 Core X 2.5 mm2 sq, un armoured CONTROL CABLE (CU)	Technical specification not attached,kindly provide the same.	Kindly follow Technical Specifications ENG-LV-3004. All sizes are armoured Copper control Cable Annexure-1 is attached for 16Corex2.5 sqmm Armoured Control cable
		16 Core X 2.5 mm2 sq, un armoured CONTROL CABLE (CU)		
		4 Core X 2.5 mm2 sq, un armoured CONTROL CABLE (CU)		
4	C. CONTROL CABLE (CU)	4Core × 4 mm2 armoured CONTROL CABLE (CU)	Technical specification not attached,kindly provide the same.	Kindly follow Technical Specifications ENG-LV-3001. (4CX16, 4CX10, 1CX16, 2CX16 & 2CX50 sqmm are 1.1 kV LT Power cable). Annexure-1 is attached for 4Corex4 sqmm Armoured Control cable
		4 Core x 16 mm2 armoured CONTROL CABLE (CU)		
		4 Core x 10 mm2 armoured CONTROL CABLE (CU)		
		1 Corex16 mm2 armoured CONTROL CABLE (CU)		
		2 Core x16 mm2 armoured CONTROL CABLE (CU)		
		2 Core x 50 mm2 armoured CONTROL CABLE (CU)		
5	ANNEXURE-I : Price Schedule	Price Schedule Header is mismatch	Please rectify header of ANNEXURE-I : Price Schedule	Price bid corrected
6	Item 1 in Price schedule	1.1kV Al 1CX95 Sq.mm Un-armoured Cable	Kindly Clarify What is difference bettween item	There is no difference.
7	Item 14 in Price schedule	CABLE 1.1KV AL 1X95 SQMM UNARM XLPE		
8	Item 4 in Price schedule	1.1kV Al 1CX300 Sq.mm Un-armoured Cable	Kindly Clarify What is difference bettween item	There is no difference.
9	Item 15 in Price schedule	CABLE 1.1KV AL 1X300 SQMM UNARM XLPE		
10	Item 6 in Price schedule	1.1kV Al 4CX150 Sq.mm Un-armoured Cable	Provide us techincal specification	Kindly follow Technical Specifications ENG-LV-3001. Read 1.1kV Al 4CX150 Sq.mm armoured Cable
11	C Control Cable Item 1 in price schedule	10 Core X 2.5 mm2 sq, un armoured	Provide us techincal specification	Kindly follow Technical Specifications ENG-LV-3004. All sizes are armoured Copper control Cable Annexure-1 is attached for 16Corex2.5 sqmm Armoured Control cable
12	C Control Cable Item 2 in price schedule	16 Core X 2.5 mm2 sq, un armoured	Provide us techincal specification	
13	C Control Cable Item 3 in price schedule	4 Core X 2.5 mm2 sq, un armoured	Provide us techincal specification	
14	C Control Cable Item 7 in price schedule	12 Core x 2.5 mm2 armoured	PVC Kindly confirm	
15	C Control Cable Item 8 in price schedule	4Core × 4 mm2 armoured	Provide us techincal specification	Annexure-1 is attached for 4Corex4 sqmm Armoured Control cable
16	C Control Cable Item 9 in price schedule	4 Core x 16 mm2 armoured		Kindly follow Technical Specifications ENG-LV-3001. (4CX16, 4CX10, 1CX16, 2CX16 & 2CX50 sqmm are 1.1 kV LT Power cable).
17	C Control Cable Item 10 in price schedule	4 Core x 10 mm2 armoured		
18	C Control Cable Item 11 in price schedule	1 Corex16 mm2 armoured		
19	C Control Cable Item 12 in price schedule	2 Core x16 mm2 armoured		
20	C Control Cable Item 13 in price schedule	2 Core x 50 mm2 armoured	Provide us techincal specification	
21	ENG-LV-3001 TECHNICAL SPECIFICATION FOR 1.1 KV POWER CABLES, Pg-10, Clause-7	Rubberized cotton binding tape shall be applied to bind the armor wires such that it shall not affect the electrical properties of the armor wires and the overall cable	Rubberized cotton binding tape shall be applied only for cable of 4C x 150 sqmm and above	As per Technical specifications
22	NIT Pg-20, Cl-3,	PBG applicable shall be 2% of RC value and 3 % against each RO. PBG submitted shall be released after completion of applicable guarantee period plus one month. Guarantee period shall be 60 months from the date of commissioning or 72 months from the date of last supplies made under the contract.	PBG of 2% of RC value for a period of Validity of RC + 2 months.	PBG of 2% of RC Value will be kept till Warranty period + One Month.

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23	NIT Document	Annexure I (Price Schedule)	In Serial No. A- 6, C- 1, 2 & 3, there is a contradiction with the Technical Specification provided in the Tender. In Annexure I : All the above sizes are mentioned Unarmooured OR In Technical Specification: (ENG-LV-3001 & ENG-LV-3004) For Single Core Aluminium Cable- XLPE Insulated and PVC Sheathed Aluminium Unarmoured FRLSH Power Cable (A2XY) For Multi Core Aluminium Cable- XLPE Insulated and PVC Sheathed Aluminium Armoured FRLSH Power Cable (A2XWY) For Single Core or Multi Core Copper Cable- PVC Insulated and PVC Sheathed Copper Armoured FRLSH Control Cable (YWY) In view of above, please confirm your requirement!	It will be armoured and the specifiaction will be as per attached spec in NIT.
	Technical Specification	ENG-LV-3001 for Power Cable & ENG-LV-3004 for Control Cable	In the TS of Control Cables Tender Sample has been asked with the offer. However, we would like to inform you that in the previous Tenders sample has never asked and even Sample has not asked in the TS of Power Cable in the same tender. Here, we are in need of your understanding that sending sample prior award of PO is difficult for us. Kindly waive off this point.	Not required
24	Specifications :ENG:LV-3001-LT Power Cables-R1 and Specification No.:ENG-LV-3004-LT Armoured Control Cables	General Technical Requrirement :	The specification may be modified as follows, to get quality end product of LT Power and Control Cables - increase the cable durability.	
		CONDUCTOR	· Purity of Aluminium shall be 99.7% or above, resistivity shall not exceed 0.02835 ohm mm2/m.	It shall be as per IS 8130
			· Purity of copper shall be 99.97 % or above, resistivity shall not exceed 0.017241 ohm mm2/m.	It shall be as per IS 8130
		INSULATION	• PVC Insulation for LT cable: Thermal stability test value shall be min 140 minutes as per IS 5831	
			In Indian specification (IS), Thermal stability test result can be minimum 80 minutes, but for this test value, quality of PVC insulation compound is poor and it will not be virgin. Desired quality and virgin PVC insulation compound can be achieved with the minimum test value of 140 minutes and this value also meets IS 5831 requirements	It Shall be as per IS 5831
			• XLPE Insulation for LT cable: Hot set test value shall be maximum 60% as per IS 7098-part I.	
			In Indian specification (IS), Hot set test result can be maximum 175%, but for this test value, quality of XLPE is poor and it will not be properly cured and within one-year brittleness starts. Desired quality and properly cured XLPE can be achieved with the maximum Hot set value of 60% for LT Cables and this value also meets IS 7098 Part 1.	It shall be as per IS 7098 Part-1
		INNER SHEATH	• For LT cables Inner sheath shall be extruded with PVC compound having density of maximum 1.58	Shall be as per latest edition of Relevant IS
		ARMOURING FOR LT CABLES	• Strips with hot dip galvanised process shall be provided & it shall meet dimension (width & thickness) test with tolerance of +/- 5% and minimum coverage of 90%. This is covered as per IS 3975.	
			Round wire with hot dips galvanised process shall be provided & it shall meet diameter test with tolerance of +/- 5%, and minimum coverage of 90%. This is covered as per IS 3975	It shall be as per IS 3975 & IS 4826

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		Outer Sheath for both PVC and XLPE cables:	• Outer Sheath for LT and HT cable: Thermal stability test value shall be min 120 minutes as per	
			IS 5831.In Indian specification (IS), Thermal stability test result can be minimum 80 minutes, but for this test value, quality of PVC sheathing compound is poor and it will not be virgin. Desired quality and virgin PVC sheathing compound can be achieved with the minimum test value of 120 minutes and this value also meets IS 5831 requirements.	It Shall be as per IS 5831