TP Central Odisha Distribution Limited | TP Nothern Odisha Distribution Limited | TP Southern Odisha Distribution Limited | TP Western Odisha Distribution Limited

CENTRALIZED CONTRACTS GROUP

Response to Pre-Bid Queries

30.01.2024

NIT No.: TPCODL / CCG / 23-24 / 1000000549

Tender Description:

Rate Contract - Supply of LT AB Cable at TPCODL, TPNODL & TPSODL for One Year

The pre-bid queries as received against the referred tender enquiry and CCG/CEQG (TP-Odisha) responses on the same are placed below:

S. No.	Tender Reference	Pre-Bid Query raised by Bidder	CCG/CEQG (TP-Odisha) response
1	Annexure-I, Price Schedule/ Sl No.5 / Page No. 19/302	1.1KV L.T AB CABLE 2X35+1X25 SQ.MM- GENERAL TECHNICAL REQUIREMENTS not available	. Attached

Note:

This document shall be an integral part of the tender and bidder shall submit signed/stamped copy of this document along with technical bid, as a token of acceptance. The tender document stands modified only to the extent stipulated herein above in this document. All other terms & conditions shall be strictly followed as per Bid documents.

Guaranteed Technical Parameters for 2CX35+1CX25 sq mm

S.No.	Description	Units	Requirement
1.	Type of Cable		LT ABC cable with cross linked polyethylene insulated Phase & neutral core twisted around the bare earth cum messenger wire
2.	Size of Aerial Bunched cable		2Cx35 mm² (P)+1Cx25 mm² (M)
3.	Rated Voltage	kV	1.1
4.	System Voltage	kV	0.415
5.	Nominal Area of Phase & Neutral Conductor	Sq. mm	35
6.	Nominal Area of Messenger	Sq. mm	25
7.	Phase Core & Neutral core		Stranded compacted circular aluminum conductor, XLPE Insulated
8.	Messenger Wire		Stranded compacted circular aluminum alloy conductor
9.	Maximum conductor temperature during continuous operation	deg C	90
10.	Maximum conductor temperature during short circuit	deg C	250
11.	**Phase Core Phase Neutral insulated**		
a)	**Conductor**		
(i)	Material		EC Grade Aluminum of H4 Grade to IS 8130
(ii)	No. of Cores & Nominal size	Sq mm	2CX35
(iii)	Minimum number of wires/Diameter		6/ Shall be suitably selected to meet conductor DC resistance as per IS 8130
(iv)	Max. DC Resistance of Phase conductor at 20 deg. C	Ohm/km	0.868
(v)	Shape of Conductor		Stranded Compacted Circular
(vi)	Short circuit current rating of conductor for 1 sec	kA	3.29
(vii)	Continuous current rating in air at 40 deg. C	A	125
b)	**Insulation**		
(i)	Material		XLPE insulation as per IS 14255
(ii)	Nominal Thickness	Mm	1.2
(iii)	Tolerance is Insulation Thickness	Mm	XLPE Insulation as per IS 14255 clause No.7.3
12)	**Earth cum Messenger wire**		
a)	Messenger wire		
(i)	Material		Aluminum Alloy Wire
(ii)	Nominal size	Sq. mm	25
(iii)	No. and Nominal dia of each strand	No.mm	7/2.14
(iv)	App. Calculated Breaking Load	KN	7
(v)	Calculated Maximum resistance at 20 deg C	Ohm/km	1.38
`(vi)	Shape of conductor		Stranded circular compacted
(vii)	Short circuit rating for 1 sec	kA	2.35
13)	Core identification		RIDGES REQUIRED for Phase identification: 1 ridge for phase

			For neutral core identification non contact type laser printing or ink jet printing to be provided with 'N' printed on it at every span of1 ft.
14)	Formation of cable		Two cores XLPE insulated shall be twisted around the bare earth cum messenger wire
15)	Approx. weight of the messenger	Kg/Km	To be provided by the bidder
16)	Standard drum length	Mtr.	500/As per PO
17)	Tolerance in drum length	%	± 5%
18)	Reference Standard		IS 14255
19)	Embossing on XPLE cable		Embossing on phase insulation of the cable: manufacturer name 1100 V , size of cable, ISI, month & year of manufacturing, Property of TPWODL/ TPCODL/ TPNODL/ TPSODL, PO number & date, Sequential marking shall be available after every 1 meter in the cable.