

Response to Pre-Bid Queries				
Tender No. : TPNODL/OT/2021-22/220				
Description : Supply of various size of Control Cable				
Sr. No.	Detailed Reference to Tata Power Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	Tata Power Response
1	2	3	4	5
1	Corrigendum-I-OT-220 / 4.3.a / 4	Inner Sheath Material : Not Applicable (against 2x2.5 sq.mm)	Extruded PVC conforming to type ST-2 as per IS:5831-1984	OK
2	Corrigendum-I-OT-220 / 4.3.b / 4	Inner Sheath : Minimum thickness (at any point of measurement) : Not Applicable (against 2x2.5 sq.mm)	0.3 mm	OK
3	Corrigendum-I-OT-220 / 4.5.c / 5	Outer Sheath : Minimum thickness (at any point of measurement) : 1.24 mm (against 2x2.5 sq.mm)	1.8 mm (Nom.) [as per IS:1554(Part-1)/1988] (for 2x2.5 sq.mm Un-Armoured YY cable)	OK
4	Corrigendum-I-OT-220 / 4.6.a / 5	Approx. overall diameter for 2x2.5 sq.mm : 15.0 mm	It should be 13.5 mm (approx.)	overall diameter for 2x2.5 sq.mm : 15.0 mm
5	Corrigendum-I-OT-220 / 4.8 / 5	Approx. Weight of cable for 2x2.5 sq.mm : 500 Kg/Km	It should be 200 Kg/Km (approx.)	OK
6	Corrigendum-I-OT-220 / 4.10 / 5	Allowable conductor temperature at continuous current : 70 Deg.C	85 Deg.C [since HR PVC(Type-C) insulation]	OK
7	Corrigendum-I-OT-220 / 5.2 / 10	Outer Sheath : Material : PVC(Type-ST1)	PVC(Type-ST2)	OK
8	Corrigendum-I-OT-220 / 4.6 / 22	150 sq.mm. and above : Watertight Stranded Aluminum	This type of Conductor is recommended for <b>Extra High Voltage</b> Cables only and not required for LT (1.1 kV grade) Cables.	OK
9	Corrigendum-I-OT-220 / 5.6 / 23	Longitudinal water sealing of conductor (for 150 sq.mm. and above only) : Non-conductive water swellable yarn/tape/ combination of both shall be provided in between interstices of the conductor.	So, 'Non-conductive water swellable yarn/tape/ combination of both in between interstices of the conductor' is not applicable for LT (1.1 kV grade) Cables.	OK

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10	Corrigendum-I-OT-220 / 5.E.7 / 26	Binding : 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.	It is used for HT cables and not applicable for LT cables in general. So, please, omit the same.	OK
11	Corrigendum-I-OT-220 / 4.9 / 40	Maximum allowable conductor temperature during short circuit : 160 Deg.C	250 Deg.C	Ok
12	Corrigendum-I-OT-220 / 4.15.1 / 40	Current Rating of Air for 1x95 sq.mm (A2XY) : 264 Amps	235 Amps in Air at 40 Deg.C [as per IS:3691(Part-6)/2016]	OK
13	Corrigendum-I-OT-220 / 4.15.2 / 40	Current Rating of Ground for 1x95 sq.mm (A2XY) : 243 Amps	202 Amps in Ground at 30 Deg.C [as per IS:3691(Part-6)/2016]	OK
14	Corrigendum-I-OT-220 / 4.15.3 / 40	Current Rating of Duct for 1x95 sq.mm (A2XY) : 199 Amps	181 Amps in Duct at 30 Deg.C [as per IS:3691(Part-6)/2016]	OK
15	Corrigendum-I-OT-220 / 4.16.5 / 41	Maximum allowable conductor temperature during short circuit : 160 Deg.C	250 Deg.C	OK
16	Corrigendum-I-OT-220 / 4.19.1 / 41	Outer Sheath thickness : 1.88 mm	1.8 mm (Nom.) (for 1x95 sq.mm Un-Armoured A2XY cable)	Outer Sheath thickness : 1.88 mm
17	Corrigendum-I-OT-220 / 4.1.f / 51	Continuous Current Rating at 40 Deg.C for 4x300 sq.mm (A2XWY) : 501 Amps	452 Amps in Air at 40 Deg.C [as per IS:3691(Part-6)/2016]	OK
18	Corrigendum-I-OT-220 / 4.1.h / 51	Shape of conductor : Stranded compact circular	Stranded compact sector shaped (for all 4 Core cables) (as mentioned in page-54)	OK
19	Corrigendum-I-OT-220 / 4.2.b / 51	Insulation : Minimum thickness (at any point of measurement) : 1.55 mm	1.52 mm	Minimum thickness (at any point of measurement) : 1.55 mm
20	Corrigendum-I-OT-220 / 4.3.a / 52	Inner Sheath : Type : For TPNODL- Extruded PVC FRLSH (Flame retardant cables with reduced halogen evolution and smoke)	Inner Sheath material (for all cable sizes) is FRLSH PVC(Type-ST2)	OK

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21	Corrigendum-I-OT-220 / 4.3.b / 52	Inner Sheath : Minimum thickness (at any point of measurement) : 0.5 mm	0.7 mm	OK
22	Corrigendum-I-OT-220 / 4.4.b / 52	Armour : Nominal Diameter : 2.5 mm	3.15 mm	OK
23	Corrigendum-I-OT-220 / 4.5.a / 52	Outer Sheath : Minimum thickness (at any point of measurement) : 2.2 mm	2.52 mm	OK
24	Corrigendum-I-OT-220 / 5.10 / 53	Conductor : Electrolytic ... and are compact	Stranded compact sector shaped (for all 4 Core cables) (as mentioned in page-54)	OK
25	Corrigendum-I-OT-220 / 5 / 55	Core Identification : For 4C cable colored strips or colored insulation shall be applied on the core for identification of cores. In 4C cable. Red, Yellow, and Blue strips shall be used to identify different phase conductors and black strips shall be used to identify neutral conductors.	We will provide coloured insulation (Red, Yellow, Blue & Black) for core identification.	In 4C cable. Red, Yellow, and Blue strips shall be used to identify different phase conductors and black strips shall be used to identify neutral conductors. Insulation color should be natural.
26	Corrigendum-I-OT-220 / 4.1.h / 66	Shape of conductor : Stranded Sector Shape	Stranded compact circular (for all 1 Core cables) (as mentioned in page-69)	OK
27	Corrigendum-I-OT-220 / 4.2.b / 66	Insulation : Minimum thickness (at any point of measurement) : 0.75 mm	0.71 mm	Minimum thickness (at any point of measurement) : 0.75 mm
28	Corrigendum-I-OT-220 / 4.5.a / 67	Outer Sheath : Minimum thickness (at any point of measurement) : 1.4 mm (against 1x35 sq.mm)	1.8 mm (Nom.) [as per IS:7098(Part-1)/1988] (for 1x35 sq.mm Un-Armoured A2XY cable)	OK
29	Corrigendum-I-OT-220 / 5.8 / 68	Type of Cable : Aluminium conductor, XLPE insulated, Extruded PVC inner sheath, Galvanized Steel Round wire armoured and PVC FRLSH outer sheathed cable	Aluminium conductor, XLPE insulated, unarmoured and PVC FRLSH outer sheathed cable.	Just for single core unarmoured cable(35, 50, 95, 185)
30	Corrigendum-I-OT-220 / 5.12 / 68	Inner Sheath : Extruded PVC Compound Type ST2 as per IS:5831-1984	Not Applicable	Inner sheath is not applicable only for unarmoured cable

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31	Corrigendum-I-OT-220 / 5.13 / 68	Armour : Galvanized steel round wire as per IS:3975-1999	Not Applicable	Armoured is not applicable only for unarmoured cable
32	Corrigendum-I-OT-220 / 4.1.f / 79	Continuous Current Rating at 40 Deg.C for 4x150 sq.mm (A2XWY) : 305 Amps	284 Amps in Air at 40 Deg.C [as per IS:3691(Part-6)/2016]	OK
33	Corrigendum-I-OT-220 / 4.2.b / 79	Insulation : Minimum thickness (at any point of measurement) : 1.2 mm	1.16 mm	Minimum thickness (at any point of measurement) : 1.2 mm
34	Corrigendum-I-OT-220 / 5.9 / 81	Core : One	Four	OK
35	Corrigendum-I-OT-220 / 4.1.f / 94	Continuous Current Rating at 40 Deg.C for 4x185 sq.mm (A2XWY) : 350 Amps	329 Amps in Air at 40 Deg.C [as per IS:3691(Part-6)/2016]	OK
36	Corrigendum-I-OT-220 / 4.2.b / 94	Insulation : Minimum thickness (at any point of measurement) : 1.54 mm	1.34 mm	OK
37	Corrigendum-I-OT-220 / 4.4.c / 95	Armour : Tolerance : $\pm 0.080$	$\pm 0.065$	OK
38	Corrigendum-I-OT-220 / 5.9 / 96	Core : One	Four	OK

**Note: - This document shall form an integral part of tender and should be submitted along with the tender document.**