

**Format for Pre-Bid Queries Response**

<b>Tender Reference No</b>	TPCODL/P&S/1000000137/2020-21
<b>Tender Name</b>	Rate Contract for Supply of 1.1kV Control Cable
<b>Bidder :</b>	

Note : Pre-Bid Query has to be sent in editable Excel file format only

Sr. No.	Detailed Reference to TPCODL Technical Document. Please specify Document No / Clause No / Page No	Description as per Bid Document	Remarks - Query / Clarification	TPCODL Response
1	2	3	4	5
1	Page No. 8 Clause No. 2.1	Price Variation Clause: The prices shall remain firm during the entire contract period.	We request to TPCODL kindly amend this clause on variable price basis as per IEEMA Circular because it is very much difficulty to quote the prices on FIRM basis for two years Rate Contract at this unstable market of Raw Material	Please adhere the tender document
2	Document No-ENG-LV-34,Page No 87 of 104	Control CABLE CU ARMRD 1.1kV-16Cx2.5SQMM, Qty 7.720 Km	Technical Specification is not Provided with Tender Documents. Please attach the detailed specification for the same.	Attached
3				
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GTP of 16 Cx 2.5 Sqmm Control cable			
Sl.No.	Description	Units	Requirement
1	Reference Standard		IS:1554,Part-1/1988 in General
2	Voltage grade		1.1 KV
3	Type of Cable		Control Cable
<b>A</b>	<b>Size of cable</b>	<b>sq.mm</b>	<b>16C x 2.5</b>
<b>1</b>	<b>Conductor</b>		
a	Conductor Material		Plain Annealed Copper
b	No.of Cores	No.s	16
c	Size of conductors	Sq.mm	2.5
d	Shape of conductors		Stranded circular
e	No.of diameter		Minimum size shall be corresponding to meet the requirement of conductor resistance as per relevant clause of IS:8130-1984
<b>2</b>	<b>Insulation</b>		
a	Material		PVC insulation conforming to type C as per IS: 5831- 1984 applied by extrusion process
b	Nominal Thickness		0.9
c	Core Identification		All cores white with core numbers printed in black ink as per clause 10.3 of IS:1554(Part-I)/1988
<b>3</b>	<b>Inner sheath</b>		
a	Material		PVC conforming to type ST-2 as per IS:5831-1984
b	Minimum thickness (at any point of measurement)	mm	0.3
<b>4</b>	<b>Armour</b>		
a	Material		Galvanized Steel round wire confirming to IS:3975-1999
b	Nominal Diameter	mm	1.6
c	Type		Wire
<b>5</b>	<b>Outer Sheath</b>		
a	Material		FRLS PVC Type ST-2, extruded type as per IS:5831- 1984 (With FRLS Properties)
b	Color		Blue
c	Minimum thickness (at any point of measurement)	mm	1.4
<b>6</b>	<b>Diameter</b>		
a	Approx. overall diameter	mm	25
b	Tolerance of diameter	mm	±3
<b>7</b>	<b>Short circuit capacity for one second</b>	kA	0.2875
<b>8</b>	<b>Approx. Weight of cable</b>	Kg/K.M	1130
<b>9</b>	<b>Standard length of cable drum with tolerance</b>	M	500 ±5%
<b>10</b>	<b>Allowable conductor temperature at continuous current</b>	°C	70
<b>11</b>	<b>Allowable conductor temperature during short circuit</b>	°C	160
<b>12</b>	<b>Max. DC resistance at 20°C – Main</b>	Ohm/K.M	7.41
<b>13</b>	<b>Max. AC resistance at 20°C – Main</b>	Ohm/K.M	8.89
<b>14</b>	<b>Guaranteed value of min oxygen index at 27°C</b>	%	29
<b>15</b>	<b>Guaranteed value of min. temp. index at 21 oxygen index</b>	°C	250
<b>16</b>	<b>Smoke Density Rating</b>		Max. average 60 SDR