

## LIST OF ITEMS CONTROLLED BY CORE (ELECTRICAL) FOR VENDOR DEVELOPMENT

S.N.	ITEM DETAILS	Specification No. /Drg. No.
<b>(A) Items Under MP Section</b>		
<b>1.0</b>	<b>Fabricated &amp; Galvanized Steel Structures for OHE and TSS</b>	Relevant RDSO drawing No., IS:2062 (2011), IS:800
<b>2.0</b>	<b>Fabricated &amp; Galvanized Small Parts Steel (SPS) for OHE and TSS</b>	Relevant RDSO drawing No., IS:2062 (2011), IS:800
2.1	Fabricated & Galvanized Small Parts Steel (SPS) for OHE only	Relevant RDSO drawing No., IS:2062 (2011), IS:800
<b>3.0</b>	<b>Rerolled Angles, Cheenals &amp; Masts</b>	
3.1	Column Section (BFB 6"x6" or SC-150)	IS:2062 (2011), IS:808 (1989)
3.2	Wide flange beam/joist (RSJ 8"x6" or WB-200)	IS:2062 (2011), IS:808 (1989)
3.3	Channel Section (sizes from MC-100 to MC-250)	IS:2062 (2011), IS:808 (1989)
3.4	Angle Section (sizes from 50x50x6 to 90x90x8)	IS:2062 (2011), IS:808 (1989)
<b>4.0</b>	<b>Copper &amp; Cd Copper Conductors</b>	
4.1	5/7 mm. Round Copper Dropper Wire	IS:282:1982
4.2	50/105/160 sq.mm. Annealed Copper Stranded Jumper Wires	RDSO Specification. No.: ETI/ OHE/3(2/94) with A&C Slip No. 1
4.3	20/130 sq.mm. Stranded Cadmium Copper wire	RDSO Specification. No.: ETI/OHE/50 (6/97) with A&C Slip No. 1,2,3,4 &5
4.4	150 sq.mm. Hard Drawn Stranded Copper cross feeder wire	RDSO Specification. No.: TI/SPC/OHE/HDCSCF/0030
<b>5.0</b>	<b>19/2.50 mm Galvanized Steel Anti-creep wire</b>	RDSO Specification. No.: ETI/OHE/36(12/73) with A&C Slip 1
6.0	Power & control cables ( <b>DELETED</b> )	
7.0	Gas Chromatograph	RDSO specification No. ETI/PSI/105 (7/93)
<b>8.0</b>	<b>Lightning Arrestors (LA)</b>	
8.1	42 kV Metal Oxide gapless LA	RDSO specification No. TI/SPC/PSI/MOGTLA/0101 (02/2015)
8.2	60 kV Metal Oxide gapless LA	
8.3	96 kV Metal Oxide gapless LA	
8.4	120 kV Metal Oxide gapless LA	
8.5	198 kV Metal Oxide gapless LA	RDSO specification No. ETI/PSI/137(8/89) with A&C slip no. 1 to 7
<b>9.0</b>	<b>Auxiliary Transformers (AT)</b>	
9.1	5 kVA, 25 kV/240 V Single Phase, oil filled AT	
9.2	10 kVA, 25 kV/240 V Single Phase, oil filled AT	
9.3	25 kVA, 25 kV/240 V Single Phase, oil filled AT	RDSO specification no. ETI/PSI/15(8/03)
9.4	50 kVA, 25 kV/240 V Single Phase, oil filled AT	
9.5	100 kVA, 25 kV/240 V Single Phase, oil filled AT	RDSO specification no. ETI/PSI/15A(7/82) pt-1 with A&C Slip No. 1
<b>10.0</b>	<b>Current Transformers (CT)</b>	
10.1	25 kV CT ratio 1500-750/5 A	
10.2	25 kV CT ratio 1000-500/5 A	
10.3	25 kV CT ratio 200-100/5 A	
10.4	25 kV NCT ratio 2/1 and 5/1 A	
10.5	25 kV CT 2-Core PS class ratio 3000-1500/5 A	
10.6	25 kV CT 2-Core PS class ratio 1500-750/5 A	
10.7	25 kV CT single Core PS class ratio 1500-750/5A	RDSO specification no. ETI/PSI/90(6/95)A&C slip 1 to 8
10.8	66 kV CT ratio 800-400/5 A	
10.9	110 kV CT ratio 400-200/5 A	
10.10	132 kV CT ratio 400-200/5 A	
10.11	132 kV CT ratio 1200-800-400/5-5-5 A Class 5P/0.2/PS	
10.12	220 kV CT ratio 200-100/5 A	RDSO specification no. ETI/PSI/117(7/88) A&C slip 1 to 9
<b>11.0</b>	<b>Potential Transformer (PT)</b>	
11.1	25 kV PT Type-I	
11.2	25 kV PT Type-II	
11.3	66 kV / 110/√3 V PT	
11.4	110/√3 kV/ 110 V PT	
11.5	100-110/√3 kV / 110/√3- 110/√3 V PT (used in Mumbai Suburban area)	
11.6	132/√3 kV/ 110 V PT	
11.7	220 kV / 110/√3 V PT	RDSO specification no. TI/SPC/PSI/PTs/0990 with A&C Slip No. 1 to 5
<b>(B) Items Under OHE Section</b>		
<b>1.0</b>	<b>25kV AC SP/DP Isolators with/Without Earth Switch</b>	
1.1	25 kV AC, 1250 A SP Isolators with/without earth switch	
1.2	25 kV AC, 1250 A DP Isolators with/without earth switch	
1.3	25 kV AC, 1600 A SP Isolators with/without earth switch	
1.4	25 kV AC, 1600 A DP Isolators with/without earth switch	ETI/OHE/16 (1/94) Rev2 (Mar-04) and RDSO's letter No. TI/PSI/ 25/ ISOL /POLICY /99 dt 3.6.99

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S.N.	ITEM DETAILS	Specification No. /Drg. No.
1.5	25 kV AC 3150 A SP Isolators with/without earth switch	ETI/PSI/122(3/89) Rev.1. (April-90)
1.6	25 kV AC 3150 A DP Isolators with/without earth switch	
<b>2.0</b>	<b>66/132/220kV DP/TP Isolators with/without earth switch</b>	
2.1	66 kV AC, 1250 Amp D.P/TP Isolators	
2.2	132/145 kV AC, 1250 Amp DP Isolators	
2.3	132/145 kV AC, 1250 Amp TP Isolators	
2.4	245 kV AC, 1250 Amp DP Isolators	
2.5	245 kV AC, 1250 Amp TP Isolators	
<b>3.0</b>	<b>Automatic Changeover Control Panel for Colour Light Signalling</b>	
3.1	Automatic changeover Control panel for Colour Light Signaling 30 Amps	TI/SPC/PSI/CLS/0020(12/02) (with A&Cslip No1 to 4 )
3.2	Automatic changeover Control panel for Colour Light Signaling 60Amps	
3.3	Automatic changeover Control panel for Colour Light Signaling 150 Amps	
3.4	Automatic changeover Control panel for Colour Light Signaling 300 Amps	
<b>4.0</b>	<b>25kV DO fuses</b>	
4.1	25 kV DO fuse Switch Assembly	ETI/PSI/14(1/86) Rev 1 (Apr-87)
4.2	25 kV DO fuse link , 1Amp	
4.3	25 kV DO fuse link, 5Amp	
4.4	Operating Pole for 25 kV DO fuse	
<b>5.1</b>	<b>Discharge rod/Earthing pole Assembly of 25 AC Traction</b>	ETI/OHE/51(9/87) Rev. 1. (Oct-92)
<b>6.1</b>	<b>Retro-reflective Structure Number Plates/ Caution Boards on Al- alloy board.</b>	ETI/OHE/33A (12/97), Rev-8 (11/2012)
<b>6.2</b>	<b>Vitreous Enameled steel structural number plates/ Boards</b>	ETI/OHE/33 (8/85)
<b>7.0</b>	<b>Stainliss Steel Fasteners</b>	
7.1	High-tensile bolts & nuts, studs, bolts, screws-bolts, pins of various sizes, used for OHE fittings	TI/SPC/OHE/Fasteners/0120 (Mar 2013)
7.2	Spring washers	
7.3	Flat round washer of various sizes	
<b>8.0</b>	<b>GI Fasteners</b>	
8.1	Bolts, and nuts including U bolt development J-bolt, snap headed pins/rievet of all sizes used for OHE fittings	TI/SPC/OHE/Fasteners/0120 (Mar 2013)
8.2	Flat/round washers/Spring Washers	
<b>9.0</b>	<b>Non-Ferrous Fasteners (Split Pin, Rivets, Washers etc)</b>	IS:740-1977, IS:2907-1988, IS: 549-2005 (See Annexure - I for Details)
<b>10.1</b>	<b>230 Volt AC &amp; 110 Volt DC/Distribution Panel</b>	ETI/PSI/29 (12/79) Rev-1 (Feb'93)
<b>11.0</b>	<b>Variuos Types of OHE fittings</b>	
11.1	Aluminium Bronze / Tin Bronze fittings	TI/SPC/OHE/Fittings/0130 (10/13) (See Annexure A of Vendor directory for Details)
11.2	Copper fittings	TI/SPC/OHE/Fittings/0130(10/13) (See Annexure B of Vendor directory for Details)
11.3 (a)	MCI fittings (Retained as MCI Fittings)	TI/SPC/OHE/Fittings/0130(10/13)& ETI/OHE/13 (4/84) with A&C – 1 to 3 (See Annexure C of Vendor directory for Details)
11.3 (b)	MCI fittings (Converted in to forged fittings)	TI/SPC/OHE/Fittings/0130(10/13)& ETI/OHE/13 (4/84) with A&C – 1 to 3 (See Annexure C of Vendor directory for Details)
11.4	Aluminium - Alloy Fittings, Extruded Tubes & Sections	TI/SPC/OHE/Fittings/0130(10/13)& ETI/OHE/21 (9/74) (See Annexure D of Vendor directory for Details)
11.5	Forged Steel fittings	IS : 2004 – 1991, ETI/OHE/13 (4/84) with A&C – 1 to 3 (See Annexure E for Details)
11.6	Steel Galvanised Fittings	TI/SPC/OHE/Fittings/0130(10/13)& ETI/OHE/13 (4/84) with A&C – 1 to 3 (See Annexure F of Vendor directory for Details)
11.7	Copper Strip 25mm x3mm and Copper Bar 18mm dia	IS 191/1981 & IS:613/ 1984
11.8	SGCI Fittings	TI/SPC/OHE/Fittings/0130(10/13)& ETI/OHE/13 (4/84) with A&C – 1 to 3 (See Annexure J of Vendor directory for Details)
<b>12</b>	<b>Cast Iron Counter Weights</b>	IS : 210 – 2005 (Grade FG-150) (See Annexure G of Vendor directory for Details)
<b>13</b>	<b>Galvanised ERW steel tubes &amp; Counter Weight Guide Tube</b>	ETI/OHE/11(5/89), IS:1239 (25 mm) NB Light Class, ETI/OHE/13 (4/84) with A&C Slip No. 1, 2 & 3, Drawing No. ETI/OHE/5060-2 Rev-C (See Annexure - H of Vendor directory for Details)