

## ANNEXURE-II

### Earthing Provision at as per Latest TAN (this includes all types of earths i.e. Class-A, B, C: LPS, Ring Earth)

Sr No.	Item	Unit	Qty
1	Supply of spike air terminals of 17.2 mm dia. & 2000 mm long. The air terminal shall be manufactured with Cu bonded steel rod The air terminal shall be fixed with base plate arrangement. Inspection by RITES.	No	7
2	Conductor for catenary: Supply of 6mm (25 sqmm) dia 250 Microns CU Boded Steel round conductor for air termination network at parapet and for making mesh at terrace level and shall meet the requirement. Inspection by RITES	No	67
3	Supply of catenary Conductor holder (GUV Clamp) for holding of 6mm(25 sqmm) dia to 17.2 mm dia LA CU Boded Steel. Inspection by RITES.	No	3
4	Supply of 8 mm(50sqmm) dia 250 Microns CU Boded Steel round conductor for Down conductors to be installed with PVC condit or PVC insulated on vertical wall, facade of masonry/glass/metalic work with supporting accessories. Inspection by RITES.	mtr	120
5	Supply of 25x2mm CU tape for Ring Earthing 500 below ground level with 10kg per mtr earth enhancement compound to filled in ground and to be connected one earth pit to another earth pit.It shall meet the requirements. Inspection by RDSO.	mtr	50
6	Supply Test Link Joint Kit in a IP 55 weather proof enclosure of suitable dimension to disconnect the down conductor from the earth termination network for regular checks of the earth termination resistance value which shall be of CU and suitable for connecting 8mm round conductor to 8mm conductor. Inspection by Rep. of CSTE/Con/BSP.	No	7
7	Supply of basic earthing 1set as per spec no RDSO/SPN/197/2008 or latest consisting of (a) Copper bonded steel electrode of 3.0 m long, 17.2 mm dia with copper bonding thickness of minimum macrons and UL listed and marked =1 no. (b) Earth enhancement material supplied in sealed bags of No minimum 10 kg = 3 nos. (c) Copper strip of 200x25x6 mm, exothermically welded to terminate earth rod= 1 no. (d) Copper strip of 300x25x6 mm (MEEB) = 1 no. (e) Copper strip of 150x25x6mm (SEEB) = 1 no. Inspection by RDSO.	No	10
8	Supply of 6 digit lightning strike counter to be installed at any of the down conductor at convenient height to view the log. Inspection by RITES.	No	1
9	Isolation Spark Gap SPD Required for Earthing Pit with following specification Rated DC withstand voltage 200 V, Rated AC withstand voltage 140 V, Max. discharge current 100 kA, Impulse current by pole 50 kA, IP67 & Wire (BF PS) wire terminal (BF PC) connection Type. Inspection by RITES	No	3
10	Installation of a above Items	Job	1