











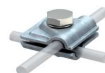


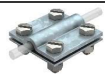








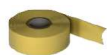






BILL OF QUANTITIES										
PROJECT :NATIONAL LAW SCHOOL OF INDIA UNIVERSITY, BENGALURU										
LOCATION: BENGALURU										
DESCRIPTION : LPS WORKS										
SUBJECT : LPS WORKS										
S.No	Image	Article type	Art No	Description	Quantity	Unit	RATE		AMOUNT	
							SUPPLY	INSTALLATION	SUPPLY	INSTALLATION
	Air Terminal									
1		RD 8/ALU	5450086	Supply of 8 mm Aluminum Round Conductor complete as specified in drawing & Meets the requirements of DIN EN 50164-2 (VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305)	800	Mtr				
2		177 30 M8	5207460	Supply of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder.Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance	620	Nos				
3		165 MBG-8-10	5218700	Polyamide roof cable holder for flat roof: DIN 48829 Form B1. Closed form with bottom. Filling weight 1Kg (frost-resistant concrete). Sleeve from polyethylene, black @ 1 meter distance.	20	Nos				
		159 VA-V	5217 07 5	Supply of Roof conductor holder - Stainless steel Conductor holder: With Bottom section and conductor holder stainless steel (V2A)Bottom section with Ø 8.5 mm slot. Conductor holder @ 1 meter distance.	160	Nos				
4		101 VL4000	5401995	Vertical air terminal with accessories:Providing of Air terminals as per IS-IEC - 62305 part-3 Nominal size Ø10/16 mm aluminium rod: 4 Mtr Airterminal: semi-hard (E-AlMgSiO5 corresponds to DIN 48801) Suitable for high wind load.Tested as per IEC 62561(1-8) and relevant test report should be submitted.	8	Nos				
4		101 VL4000	5401995	Vertical air terminal with accessories:Providing of Air terminals as per IS-IEC - 62305 part-3 Nominal size Ø10/16 mm aluminium rod: 2 Mtr Airterminal: semi-hard (E-AlMgSiO5 corresponds to DIN 48801) Suitable for high wind load.Tested as per IEC 62561(1-8) and relevant test report should be submitted.	RO	Nos				
5		F-FIX-S16 I	5450080	Providing of Stand for Fang Fix system 16 kg with base and clamp ,made up of frost resistant concrete	8	Nos				
6		F-FIX-16	5403200	Providing of Stand for Fang Fix system 16 kg with base and clamp ,made up of frost resistant concrete and tested upto 100KA lightning current. Tested as per IEC 62561(1-8) and relevant test report should be submitted for 100kA lightning current testing.	4	Nos				
7		156-16	5228220	Providing of wall fixing cross bar clamp for conductor upto 16mm ,using hot dip galvanised Steel	12	Nos				
8		226 VA	5336058	Providing of terminal for for fixing RD 8mm round conductor to the air termination rod upto 16mm	4	Nos				

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9		253 S3 FT	5312592	Providing of cross universal connector: For T and cross connection, to route vertical down conductor /mesh formation made of hot dipped galvanised iron with necessary screws etc as required. Installed with 4 hexagonal bolts M8*25 with M8 hexagonal nuts .	40	Nos				
10		172 AR	5218926	Providing of expansion piece with connector: For equalising temperature related length changes. Necessary on conductors length over 20 meters. For round conductor Rd 8/ALU.	25	Nos				
11		249 B ST	5311705	Connector: For T cross and parallel connectors. Quick installation using hexagonal bolt M10X30 high-grade hot dip galvanised. Conforms to the requirements according to DIN VDE 0185-305 (IS-IEC 62305)(2nos/expansion piece).	50	Nos				
External and Structural Down Conductor System										
12		RD 8/ALU	5450086	Supply of 8 mm Aluminum Round Conductor complete as specified in drawing & Meets the requirements of DIN EN 50164-2 (VDE 0185 part 202) & VDE 0185-305 (IS/IEC 62305)	200	Mtr				
13		177 30 M8	5207460	Supply of Roof conductor holder for parapet- Polyamide Conductor holder: With M8 female thread or diameter 7mm, M8 Screw to connect the conductor holder.Weather and temperature resistant from -35 to +90 degree Celsius tested. Conductor holder @ 1 meter distance	200	Nos				
14		252 S4 FT	5312302	Supply of Test Joint suitable to connect 8mm round conductor and max by 30x3 mm GI strip as specified in drawing and directed by Engineer, made of hot dipped galvanised iron & Installed with 4 hexagonal bolts M8*25 with M8 hexagonal nuts	10	Nos				
15		5052 DIN 30X3	5450436	Supply of Galvanised Steel Flat 30X3 mm thickness for Vertical column Riser as required. Flat conductor Hot Dipped Galvanized.	200	Mrs				
16		1814 ST D40	5450258	Supply of clamp ,For reinforced steel of diameter 6-40mm and RD8-10 Round Conductor.	100	Nos				
17		256 S6 FT	5314572	Providing of Cross connector for Flat: Suitable for 30mm Galvanised steel strip. Installed with 4 nos of hexagonal plate.	80	Nos				
18		205 DG L180 V4A	5420022	Providing of earth fixed point: Made of Stainless Steel, grade 316L. Connection to earthing systems, air terminals and reinforcement. Contact plate: 79 mm diameter, made of rustproof stainless steel (V4A). Clamping bolt 10mm diameter, rustproof (V2A). Including plastic cover for simple installation.	14	Nos				
19		1814 ST D40	5450258	Supply of clamp ,For reinforced steel of diameter 6-40mm and RD8-10 Round Conductor.	14	Nos				
Earthing System										

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							SUPPLY	INSTALLATION	SUPPLY	INSTALLATION
15		5052 DIN 30X3	5450436	Supply of Galvanised Steel Flat 30X3 mm thickness for Ring Earthing as required. Flat conductor Hot Dipped Galvanized.	400	Mtr				
16		256 S6 FT	5314572	Providing of Cross connector for Flat: Suitable for 30mm Galvanised steel strip. Installed with 4 nos of hexagonal plate.	40	Nos				
17		166 LS 70	5226570	Providing of flat conductor holder suitable for FL 30. Installed with 2 hexagonal bolts.	17	Nos				
18		356 50	2360055	Providing of Plastic Corrosion Protection strip: Approx 1.1 mm thick. Width 50mm. Made of petrolatum- coated chemical fibre fabric	2	Nos				
19		14 3000 CCER	5450010	Supply of UL Listed & CPRI Tested maintenance free ,Low carbon copper coated earth rod of 3 metre electrode having diameter of 14mm with copper coating thickness of 250micron tested as per IEC 62561-2 .	10	Nos				
20		14 25 RTC	5450066	Universal clamp made of SS to connect rod with flat conductor	10	Nos				
21		OEC 2 25	5450058	Earth conductivity enhancing compound shall be of 25 kg/pit tested as per IEC 62561-7,TCLP tested.	10	Nos				
22		UFE	5450030	The above arrangements shall be provided with Heavy duty earth champer of 5000kg load bearing capacity to ensure the safety of earthing system .	10	Nos				
	TOTAL								-	