

College of Engineering - Pathanapuram Campus
Lightning Protection for Main Block & Workshop Building

Schedule of works and rates

A. Main Block

Sl No.	Description of Work	Qty.	Unit	Supply Rate		Amount		Labour Rate		Amount
				Rs	Ps	Rs	Ps	Rs	Ps	
1	a) Supply and fixing of 25x3mm Al. tape for horizontal runs along parapet, walls, ridge etc making use of supports as per the specification and drawings, including necessary fabrication, jointing, bonding etc complete.	300	M	78		23400		12		3600
	b) Supply and fixing of 25x3mm Al. tape for vertical runs along walls using supports as per the specification and drawings, including holes in shades necessary fabrication, jointing, bonding, etc complete.	60	M	98		5880		35		2100
	c) Supply and fix 25 x 3 mm Copper flat from base of Vertical rod for interconnection with Al. tape through a square tape clamp.	1	M	373		373		25		25
	d) Supply and fixing of gunmetal square tape clamp for 25x3mm tape for interconnection between air terminal base and Al. conductor .	1	no	80		80		25		25

2	Supply and fixing of 32x6mm Hot Dip galvanized iron strip for down conductors from bottom side of test joint to earth electrode including fabrication , drilling, jointing etc complete	20	M	58		1160		25		500
3	a) Supply and fixing 1300 mm long Copper aerial elevation rod of 19 mm dia along with base plate, multipoint Copper finial and other required accessories as specified.	1	No	1500		1500		150		150
	b) Provision for providing stump including material as specified for fixing aerial elevation rod.	L/S								750
4	Supply and fix pipe earth with 38mm class 'B' G.I- 2.5 M long with watering chamber, C.I cover 300x300mm, including excavation in hard laterite , back filling & all Civil works, as per details in I.S 3043 without coke and salt.	5	Nos	1200		6000		1000		5000
5	Supply and fix 4Kg/cm ² rated PVC water pipe 40mm dia as protective sleeve for down conductor starting from the exit side of test link for a depth of 1.5M below test link, fixed to wall with stainless steel saddles & screws at 50cm interval.	7.5	M	38		285		25		187.5
6	Supply and fix fabricated Aluminium test link 1 each for each down conductor, applying oxide inhibiting compound etc.	5	Nos	60		300		40		200

7	Excavation in hard laterite ground for laying down conductor from building to earth pit, depth 0.5 M, width 0.3M including backfilling and compaction.	1.2	Cu.M	—				850		1020
8	Testing and commissioning of the installation in the presence of Client's Engineer & furnishing readings in proper document form as specified.		L/S					500		500
9	Providing sleeving for down conductors & silicon sealant etc as shown on drawing, including materials	5	L/S							500
Totals								38978		14557.5

Grant Total 53535.5

Signature & Address of Tenderer:

B. Workshop

Sl No.	Description of Work	Qty.	Unit	Supply Rate		Amount		Labour Rate		Amount
				Rs	Ps	Rs	Ps	Rs	Ps	
1	a) Supply and fixing of 25x3mm Al. tape for horizontal runs along parapet, walls, ridge etc making use of supports as per the specification and drawings, including necessary fabrication, joints, bonds etc complete.	140	M	78		10920		12		1680
	b) Supply and fixing of 25x3mm Al. tape for vertical runs along walls using supports as per the specification and drawings, including necessary holes in shades, fabrication, jointing, bonding etc complete.	45	M	98		4410		35		1575
2	Supply and fixing hot dip galvanized 32 x 6 mm G.I strip as down conductor from bottom side of test joint to earth electrodes including necessary fabrication required.	16	M	58	75	940		25		400
3	Supply and fixing Alu: Taper tip aerial elevation rod of dimensions 19 mm dia, 1000mm length along with base plate and other required accessories as specified.	1	No	750		750		100		100
4	Supply and fix pipe earth with 38mm class 'B' G.I- 2.5 M long with watering chamber, C.I cover 300x300mm, including excavation in hard laterite, back filling & all Civil works, as per details in I.S 3043 without coke and salt.	4	Nos	1200		4800		1000		4000
5	Supply and fix 4Kg/cm ² rated PVC water pipe 40mm dia as protective sleeve for down conductor starting from the exit side of test link for a depth of 1.5M below test link, fixed to wall with stainless steel saddles & screws at 50cm interval.	6	M	38		228	60	25		150

6	Supply and fix Aluminium test link 1 each for each down conductor, applying oxide inhibiting compound etc.	4	Nos	60		240		40		160
7	Excavation in hard laterite ground for laying down conductor from building to earth pit, depth 0.5 M, width 0.3M including backfilling and compaction.	0.9	Cu.M	—				850		765
8	Testing and commissioning of the installation in the presence of Client's Engineer & furnishing readings in proper document form etc as specified.		L/S					400		400
9	Preparation of drawings for both the buildings getting approvals etc as required from competent Authorities		L/S					1500		1500
10	Providing sleeving for down conductors & silicon sealant etc as shown on drawing, including materials	4	L/S							400

22288 .60/-

11130

Grant Total

33418 .60/-

Rounded to Rs 33418/-

Building A & B together Rs 86953/-

I hereby agree to under take & execute the above work as per details and specifications

at estimate rate

at -----% below estimate rate.

at -----% above estimate rate

Signature & Address of Tenderer: