

TENDER DOCUMENT FOR ELECTRICAL WORKS OF PROPOSED GROUND FLOOR & FIRST FLOOR OF THREE

SL.	ITEM DESCRIPTION & CALCULATION	QNT.	UNITS	RATE	TOTAL AMOUNT (Rs.)
1	Supplying and fixing 250A 415V, TPN SFU with sheet steel enclosure on angle iron frame on wall with nuts bolts etc incl. S & F 3 nos. DIN type HRC fuse as per rating. (MAKE-L&T/Siemens)	1	Each		
2	Supplying and fixing 63A 415V, TPN SFU with sheet steel enclosure on flat iron/angle iron frame on wall with nuts bolts etc incl. S & F 3 nos. DIN type HRC fuse as per rating. (MAKE-L&T/Siemens)	3	Each		
3	Supplying & fixing sheet metal (16 SWG) Iron Clad Busbar chambers on angle iron frame on wall, incl. earthing attachment and painting as required – (As per Drawing no. 470 of PWD Specification Book – May 1991. Dimension of Cu. Bars [85mm long] 415 V, 315 A 4 x 40x5mm .Dimension of Sheet Metal Box 500x150mm.	2	Mtr.		
4	Supplying and fixing 125A 415V, TPN on load front operated Changeover switch with Sheet Steel enclosure on angle iron frame on wall with nuts bolts etc. (MAKE-HAVELLS/HPL/L&T)	1	Each		
5	Supplying and fixing 240/415 V MCB of Breaking capacity 10kA & C characteristics on din rail of existing DBs and necessary connection. (MAKE-HAVELLS/Legrand/L&T/Standard)				
	6A SP MCB	30	Each		
	16A SP MCB	15	Each		
	32 A SP MCB	39	Each		
	40 A DP MCB	6	Each		
	63A FP MCB	3	Each		
6	Supplying and fixing double-door SPN MCB Distribution Board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment. (MAKE-Legrand/HAVELLS/L & T /Standard)				
	2+8 way	6	Each		

7	<p>Supplying and fixing 4 way double door Horizontal TPN MCB Distribution board with IP-42/43 protection, concealed in wall after cutting the wall & mending good the damages to original finish incl. Inter connection with suitable size of copper wire and neutral link & provision for earthing attachment.</p> <p>(MAKE-Legrand/HAVELLS/L & T)</p>	3	Each		
8	<p>Wiring in 1.1 KV grade single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) of following sizes in 25mm PVC casing-capping (Precision make) incl. necy. PVC clips, fittings etc.</p> <p>(Make-KEI/HAVELLS/FINOLEX)</p>				
	<p>2x(4 sqmm) + 1x (2.5 sqmm) as ECC.</p> <p>FOR HTPNDB TO AC CIRCUITS.</p>	175	Mtr.		
	<p>2x(2.5 sqmm) + 1x (1.5 sqmm) as ECC.</p> <p>FOR SPNDB TO COMPUTER & SB CIRCUITS.</p>	380	Mtr.		
9	<p>2x(1.5 sqmm) + 1x (1.5 sqmm) as ECC.</p>	260	Mtr.		
	<p>Distribution wiring in 1.1 KV single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in 20mm size PVC rigid conduit 'FR' (Precision make) incl. necy. fittings as required.</p> <p>(Make-KEI/HAVELLS/FINOLEX)</p>				
	<p>2x(6 sqmm) + 1x (4 sqmm) as ECC.</p> <p>FOR HTPN DB TO SPNDB.</p>	169	Mtr.		
10	<p>Supplying and Drawing 1.1 KV single core stranded 'FR' PVC insulated & unsheathed single core stranded copper wire (Brand approved by EIC) of the following sizes in the prelaid polythene pipe and by the prelaid GI fish wire and making necy. connection as required.</p>				
	<p>2x(10 sqmm) + 1x(6 sqmm) as ECC.</p> <p>FOR TPNSFU TO HTPN DB</p>	120	Mtr.		
	<p>4x(16 sqmm) + 2x(10 sqmm) as ECC</p> <p>FOR METER/TPNSFU/BUSBAR</p>	18	Mtr.		
11	<p>Distribution wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC casing-capping (Precision make) with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, incl. necy. PVC clips, fittings etc. to light/fan/call bell point with piano key type switch (Anchor make) fixed on sheet steel fabricated switch board with Perspex/bakelite top cover on wall incl. necy. connections and making earthing attachment and mending good damages to building works. [PVC casing-capping and Switch board both on surface]</p>				

	Average run 8 mtr	25	Point.		
	Average run 10 mtr.	60	Point.		
12	<p>Distribution Wiring in 1.1 KV grade 2x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire (Brand approved by EIC) in suitable size PVC casing-capping (Precision make) with 1x22/0.3 (1.5 sqmm) single core stranded 'FR' PVC insulated & unsheathed copper wire for ECC, incl. necy. PVC clips, fittings etc. to 5A 3 pin flush type plug socket with piano key type switch (Anchor make) fixed on sheet steel fabricated CRC MS switch board with bakelite/perspex (wall matching color) top cover of 3 mm thick flushed in wall by housing the board after cutting brick wall incl. necy. connection making earthing attachment, painting and mending good damages to building works [PVC casing-capping and plug box both on surface]</p>				
	On Board	26	Point.		
13	Supplying & Fixing MS fan clam of two piece type for RC ceiling as per approved specification, fabricated from 40 mm x 9 mm MS flat including making good damages to building roof with satisfactory finishing and painting – (As per Drawing no. 475 of PWD Specification Book – May 1991)	57	Each		
14	Supply & Fixing Socket type fan regulator (Step type) (Brand approved by EIC) on existing sheet metal switch board with bakelite/perspex top cover by screw after making housing for regulator knob by cutting bakelite/perspex top cover incl. making necy. connections etc.	10	Each		
15	Supply & Fixing 240 V, 3 nos. 6A, & 1 no. 20A plug socket with separate 3 nos. 6 A & 1 no. 20A Piano key type switch, indicator & 20A switch type SP MCB (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 240x200x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required.	6	Each		

16	Supply & Fixing 240 V, 20A, plug socket with separate 20 A Piano key type switch (Brand approved by EIC) on sheet metal switch board embedded in wall incl. S & F 150x100x65mm MS (16SWG) switch board and bakelite/perspex top cover of 3mm thick by Brass screws after making housing for switch by cutting bakelite/perspex cover and making necessary connections as required.	4	Each		
17	Supply & Fixing 240 V, 25 A, Modular type starter (Brand approved by EIC) with 25A Modular switch type DP MCB (CCurve) and 4 Module GI Modular type switch board with 4 Module top cover plate flushed in wall incl. S&F switch board and cover plate and making necy. connections with PVC Cu wire and earth continuity wire etc.	4	Each		
18	Supply & Fixing 240 V, 25 A, 3 pin Modular type plug socket (Brand approved by EIC), without plug top and switch with 2 Module GI Modular type switch board with top cover plate flushed in wall and making necy. connections with PVC Cu wire and earth continuity wire etc.	4	Each		
19	Supply & Fixing 240 V,25 A, 3 pin Modular type plug top with indicator (Brand approved by EIC) & necy. Connections.	4	Each		
20	Supply & Fixing angular batten holder (Anchor) on 75mm dia PVC round block / round bakelite on wall/ceiling.	20	Each		
21	Supply of 1X 22 W 240V AC 4 ft Single LED light fitting for indoor application,Complete with all accessories & LED tubes having following model. (Make-Philips TMC 501 P 1 x T- LED 22W P3242 WITH LED TUBE / PANASONIC/BAJAJ or Equevalent make.)	82	SET		
22	Supply & Fixing 240 V AC 14 W LED lamp on batten holder point. (Make-Philips/Panasonic)	20	SET		
<u>EARTHING INSTALLATIONS ::</u>					
25	Excavation of soil for installation of Earth Electrode and filling & ramming. For Soft Soil.	8	cumtr.		
26	Earthing with 50 mm dia GI pipe 3.64 mm thick x 3.04 Mts. long and 1 x 4 SWG GI (Hot Dip) wire (4 Mts. long), 13 mm dia x 80 mm long GI bolts, double nuts, double washers incl. S & F 15 mm dia GI pipe protection (1 Mts. long) to be filled with bitumen partly under the ground level and partly above ground level driven to an average depth of 3.65 Mts. below the ground level as below:				
	By TATA-Medium GI pipe	2	SET		

27	Extra for providing masonry enclosure on the top of the earth electrode of overall size 86.36 cm x 86.36 cm x 46 cm deep (below Ground level) complete with cemented brick work (1:6) of 25 cm width duly plastered with cement mortar (inside) CI hinged inspection cover of size 36.56 cm x 35.56 cm with locking arrangement, GI reducer including drilling of 46 nos. 12 mm dia holes on the GI pipe.	2	item		
28	Extra for treatment of soil by using salt & charcoal or coke for plate electrode.	2	item		
29	Supplying & fixing earth busbar of galvanized (Hot Dip) MS flat 40 mm x 6 mm on wall having clearance of 6 mm from wall including providing drilled holes on the busbar complete with GI bolts, nuts, washers, spacing insulators etc. as required.	0.6	Mtr.		
30	Connecting the equipments to earth busbar including S & F GI (Hot Dip) wire of size as below on wall/floor with staples buried inside wall/floor as required and making connection to equipments with bolts, nuts, washers, cable lugs etc. as required and mending good damages. No. 6 SWG	25	Mtr.		
31	Supply & Fixing EI danger board on wall(15 cm x 10 cm (6"x4"))	3	Each		
33	Supply & Fixing Surface mounting circular 15W 600K /100lm LED down light luminaire with die-cast aluminium housing in white powder coating finish,anti-glare diffuser and energy efficient electronic driver.input voltage-AC 220-240V,50/60 HZ.2.5 KV High surge protection. incl. necy. fittings as required. (Make- Panasonic/Havells/Bajaj/HPL/MESCAB/ Brand approved by EIC.)	2	Each		
34	Supply of 2 core 10 Ssq mm AL conductor XLPE /PVC insulated armoured cable with 1 x 10 SWG GI WIRE 1100V grade power cable conforming IS 7098 (Make-Havells/Gloster/KEI/Polycab) for compound light.	155	Mtr.		
35	Laying of cable upto 2 core 25 sqmm on wall/surface incl. S & F MS saddles with earthing attachment in 10 SWG GI (Hot Dip) Wire, making holes etc. as necy. mending good damages and painting.	155	Mtr.		

36	Supplying and fixing compression type gland complete with brass gland, brass ring & rubber ring for dust & moisture-proof entry of XLPE/PVC armoured cables as below : upto 10 sqmm	14	Each		
37	Finishing the end of following XLPE/PVC armoured cables by crimping method incl. supplying and fixing solderless socket (Dowels make), tapes, anticorrosive paste & jointing materials : 2 core 10 sqmm cable	14	Each		
38	Providing CC (6:3:1) muffing 600x600x760 mm in size or equivalent size of cylindrical muffing above ground level around the pole base complete with 3 mm thick neatly finished cement plaster all round after dismantling the unserviceable muffing if necessary. With 250x250x100mm 16 SWG GI Loop Box	5	SET		
39	Supply & fixing of Single phase 3 HP dol starter fixing on flat iron frame on wall(Make- L& T ,model-MF1)	1	SET		
40	Supply & delivery 3" dia 1.5 Mtr.long heavy gauge GI pipe (minipole)having 9" x 9" x 1/ M.S sole plate welded with drilled hole at bottom of the pole to be installed on roof of building with S.F grounding bolts.	5	Nos.		
41	Supply & fixing of pressure die cast aluminium housing LED street light luminaries on minipole header of building roof (make- Bajaj/Philips/CG/Mescab/Wipro)	5	Each		
42	Single arm beacket 1.5 Mtr.	5	Each		
43	Painting of Steel Tubular Pole of lengths and no. of coats of paint, as given below with ready mixed paint/primer of approved make, and brand incl. preparation of surface by sand paper/emery paper, cleaning etc. for receiving fresh coat of paint. Upto 9.0 mtr. long pole				
	One coat of red lead/Zinc chromate priming	5	per pole		
	1st coat of synthetic enamel paint over the primer	5	per pole		
	2nd coat of synthetic enamel paint over the 1st coat	5	per pole		
				TOTAL=	
				G.S.T @ 12%=	
				INCL.GST=	
				L.W.C @ 1%=	
				INCL. L.W.C=	
				GRAND TOTAL=	
				SAY=	