

## COST ESTIMATE

## ELECTRICAL WORK

S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
1	Wiring for light, fan or call bell point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire, partly in 20 mm (¾" dia) PVC recessed conduit & partly in PVC duct fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	40.00	Point		
2	Supply and drawing of 2 X 6 mm <sup>2</sup> single core, PVC insulated wire including 2.5 mm <sup>2</sup> PVC insulated wire single core wire ECC i in all kinds of existing or given conduit / cable duct as required. (A.C Wiring)	300.00	Per Rft		
3	Extension / Additional Wiring for light, fan or call bell point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire, partly in 20 mm (¾" dia) PVC recessed conduit & partly in PVC duct fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	50.00	Point		
4	Circuit Wiring for light, fan or call bell point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire, partly in 20 mm (¾" dia) PVC recessed conduit & partly in PVC duct fitted on surface, including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	40.00	Point		
5	Wiring for plug point with 1.5 mm <sup>2</sup> single core, PVC insulated wire copper conductor wire in 20 mm (¾" dia) PVC recessed conduit including 1mm <sup>2</sup> single core PVC insulated wire as ECC as required.	50.00	Point		
6	Providing and fixing 13 Amps polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on die fabricated, powder coated metal board recessed in wall or column including as per requirement of site and connection as required. (clipsal make)	325.00	Point		

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
7	Providing and fixing tower type MS box sheet not less than 16 SWG powder coated with 2 X 13 Amps polycarbonate flame retardant 3-Pin switch socket unit with fancy gang plate fixed on existing tower board fixed in the ground or under the table including connection as required. (clipsal make)	rate required	Job		
8	Providing and fixing 4" to 6" dia imported concealed type LED pannel light 4 to 10 W. complete in all respect including connection as approved by the Engineer-in-Charge.	215.00	Point		
9	Providing and fixing 10" dia imported concealed type LED pannel light upto 18 W. complete in all respect including connection as approved by the Engineer-in-Charge.	41.00	Point		
10	Providing and fixing chane light imported having fiber/plastic make different color suitable for 220 AC Supply in all respect including connection as approved by the Engineer-in-Charge.	5,000.00	Per Rft		
11	Providing and installing 35 Cm (14") sweep in plastic body louver wall bracket fan complete with blades, regulator and moving grill with motor, fitted on wall or column with GP clip including connection with 14.0076" flexible wire complete as required. (Millat / Pak / Asia / Younas / Climax / Royal).	50	Nos		
12	Providing and fixing brass ceiling fan 56" i/c Fan Clamp good and best approved quality locally manufactured sweep ceiling fans complete with required down rod, blades, flexible cord PVC / PVC required to connect the fan etc.	3	Each		
13	Supply and fixing 50mm (2" dia) PVC conduit with all special such as bend, sockets, junctions etc. fitted on surface partly on recessed in the wall as required.	300.00	Per Rft		
14	same as above item No. 32 but PVC conduit in 1" dia.	600.00	Per Rft		
15	same as above item No. 32 but PVC channal /duct 16x25 size on surface..	1,000.00	Per Rft		

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
16	Providing and fixing 20 Amps DP MCCB with metal board recessed in the wall or column fixed on top of fiber sheet including connection as required.	6	Nos.		
17	Providing and fixing 30 Amps TP MCCB with metal board recessed in the wall or column fixed on top of fiber sheet including connection as required.	3	Nos.		
18	Providing and installation of spilt type wall mounted 1.5 tons capacity 18000 but / Hr Air Conditioner unit in the specified place i/c gas charging of the unit. The job includes copper piping of out door unit fitted on roof on angle iron frame making inter connection of the unit with suitable sizes of wire also piping for condensed water etc. as required approved make (imported)	6	Each		
17	Providing and installation of spilt type floor mounted 4 tons capacity 48000 but / Hr Air Conditioner unit in the specified place i/c gas charging of the unit. The job includes copper piping of out door unit fitted on roof on angle iron frame making inter connection of the unit with suitable sizes of wire also piping for condensed water etc. as required approved make (imported)	5	Each		
19	Providing and fixing copper tubing size $\frac{3}{8}$ " and $\frac{5}{8}$ " dia with insulation for spilt AC unit from outer to inner. Complete in all respect as per instructions of the Engineer-in-Charge.	150	Per Rft		
20	Providing and fixing earthing set with 600 mm X 600 mm X 6 mm copper plate buried in the ground at a depth of 3.6 m or less if water come out from the ground level (with salt and charcoal, or earth chemical powder) etc., making the pit 3.6 m feet deep by excavation of all type of soil (except soft or hard rock) including fixing of 8 SWG copper wire in 13 mm GI pipe. Complete in all respect as per instructions of Engineer-in-Charge.	1	Job		

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
21	Providing & laying single core, 10 mm <sup>2</sup> , PVC insulated & PVC sheathed, 600 / 1000 volts grade with stranded copper conductor ,earthing cable from earthing pit to all DBs in existing conduit or cable duct as required. as per Pak. P.W.D specification as required.	1,000.00	Per Rft		
22	Providing & laying 4 core, 35 mm <sup>2</sup> , PVC insulated & PVC sheathed, 600 / 1000 volts grade with stranded copper conductor , armoured underground, L.T cable buried in the ground dully covered with sand and warning cable tiles as per Pak. P.W.D specification as required.	100.00	Per Rft		
23	<p><b>DISTRIBUTION BOX</b></p> <p>Supply, installation, connecting, testing and commissioning of wall mounting MDB, made of MS sheet not less than 16 SWG, with powder coated paint, ready wired and complete as per drawing comprising: (incoming &amp; outgoing breaker rupturing capacity. Complete in all respect as per instructions of Engineer-in-Charge.</p> <p>Incoming: 1 x 75 - 100 Amps TP MCCB (Terrasaki make)</p> <p>Outgoing one set: 6 x 20 DP Amps MCCB 3 x 15 DP Amps MCCB 3 x 15 TP Amps MCCB 12 x 6/10 Amps SP MCB</p> <p>Complete with phase indication lamps and as per diagram etc. complete in all respect as per drawings, specifications and instructions of the Electrical Engineer.</p>	1	Set		
24	<p>Supply, installation, connecting, testing and commissioning of wall mounting UPS DB, made of MS sheet not less than 16 SWG, with powder coated paint, ready wired and complete as per drawing comprising: (incoming &amp; outgoing breaker rupturing capacity. Complete in all respect as per instructions of Engineer-in-Charge.</p> <p>Incoming: 1 x 75 Amps TP MCCB (Terrasaki make)</p> <p>Outgoing one set: 3 x 20 DP Amps MCCB 3 x 15 DP Amps MCCB 24 x 6/10 Amps SP MCB</p>				

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	Complete with phase indication lamps and as per diagram etc. complete in all respect as per drawings, specifications and instructions of the Electrical Engineer.	3	Set		
25	Providing & fixing basic batten, surface type, fitting complete with 1x18W white day LED light.(imported)	150.00	Each		
	<b>FIRE ALARM SYSTEM</b>				
26	Wiring for Fire Alarm System with 2x1.5mm <sup>2</sup> fire rated 2 hour PVCxPVC & shielded drain cable in all kinds of existing Conduit recessed in the wall or column as required.	125.00	Per Rft		
27	Providing and fixing, testing and commissioning of 02 loop (2 zone) analogue fire control panel surface / recessed mounting type with full switching programming capabilities, system suitable operation of 230 volts 50hz with full functionality as per specification of manufacturer allied components with T&P etc. and as per specific drawing imported approved make / model or as approved by the Engineer-in-Charge as required.	1	Each		
28	Providing and fixing, testing and commissioning of analogue addressable ionization smoke detector with addressable base with full functioning switching programming capabilities system as per specification and recommended of drawing / manufacturer with allied components with T&P etc. imported approved make / model or as approved by the Engineer-in-Charge.	45	Each		
29	Providing and fixing, testing and commissioning of analogue addressable ionization heat detector with addressable base with full functioning switching programming capabilities system as per specification and recommended of drawing / manufacturer with allied components with T&P etc. imported approved make / model or as approved by the Engineer-in-Charge.	3	Each		

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
30	Providing and fixing testing and commissioning of manual call point break glass type with spare glass with allied components with full functionality as per specification of manufacturer /drawing with proper staff and tools and plants etc complete with allied components approved make or as approved by the Engineer In charge as required.	6	Each		
31	Providing and fixing testing and commissioning of addressable electronic sounder with addressable base with full functioning switching programming capabilities system as per specification & recommended of drawing/manufacturer with allied components with T&P etc imported approved make or as approved by the Engineer In charge as required.	3	Each		
	<b>SUB HEAD: NETWORKING</b>				
32	Supply / installation of giga speed EL Ethernet cabling category -6 un shielded 4 twisted pair 8 conductor each 23 SWG specification to 250 MHz suitable for data grade network in existing cable /duct as required. Make (Vivanco/ 3M / Clipsal)	6,000	Rft		
33	Supply / installation testing of communication 42 U rack from factor with 16 SWG powder coated sheet steel wall/floor mounted with front glass lockable door ,dimension 600mmx1000mm fixed tray also 1U 17 inch Flat Panel Monitor Console Kik,USB Keyboard with intergrated pointing device ,Two Ultra Density Enterprise C-19/C 13 PDU with 4x32 AMps Power Cable ),12,1-U Quick install filler Panels 1-No sliding Tray ,4-Cooling Fan & DATA Socket PD Board (Clipsal )handle etc; only for DATA COMMUNICATION SYSTEM i/c 15U server rack cabinet as required. ( Imported )	3	Each		
34	Supply / installation testing of 1 Meter long CAT 6 patchcord with RJ-45 connector at both ends as required. Make (Vivanco / 3M / Clipsal)	125	Nos.		

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35	Supply / installation testing of 3 meter long CAT6 drop cord with RJ-45 connector at both ends as required. Make (Vivanco / 3M / Clipsal)	125	Nos.		
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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
36	Supply / installation testing of following CAT6 patch Gigaspeed panels with integral cable organization for data communication system including all mounting accessories complete in all respects i/c 24-port CAT6 patch panels required. (Vivanco / 3M / Clipsal)	5	Nos.		
37	Supply and installation testing Cisco WS -C2960-24TT-L,Catalyst 24 10/100,2x100/1000T/uplink LAN base image Switch as required or equivalent model & make;-(Cisco smart Net warrenty - Two yearsPlus 3 month standard warrenty)	5	Nos		
38	Providing and fixing /Polycarbonate flame reterdant data Socket unit 8 contact Cat-5 with fancy gange plate on die faricated powder coated metal board recessed in the wall or column i/c connection as required. (Vivanco/ 3M /Clipsal)	125	Nos		
39	Providing and installing testing and commissioning Complete Digital Telephone set approved colour and designe as approved by the Engineer as required.	16	Nos		
40	Wiring for 02 pair cable PVC Insulated for the Telephone set in an existing conduit recessed in the wall or column as required or as approved by the Engineer In charge. (Pak cable or euivalent)	2,000	P.Rft		
41	Wiring for 25 pair cable PVC Insulated for the Telephone set in an existing conduit recessed in the wall or column as required or as approved by the Engineer In charge. (Pak cable or euivalent)	50	P.Rft		

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42	Providing and installing testing and commissioning Complete Digital Telephone DB Board made of heavy gauge metal sheet and powder coated with locking arrangements i/c telephone connectors set as approved as approved by the Engineer as required.	1.5	Sft		
43	Testing and Commissioning Tagging, with fluke report and performance warranty certificate Complete as satisfaction & approved by the Engineer as required.	1	Job		

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S.NO	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
44	Providing and fixing mechanical interlock system for operating of generator set supply complete with two 100 amps TP MCCB fixed on existing powder coated MS board as required including interconnections. Complete in all respect as per instruction of the Engineer-in-Charge.	1	Job		
45	Supply and laying of CC TV coaxial cable 75 ohms in 1" dia PVC conduit or channel as required make WISI Germany / Contech USA) or equivalent as approved by the Engineer-in-Charge.	3,000	Rft		
46	Supply of indoor camera fixed dome economy 12 V Pal 3.6 lens Product features 54 (Tv lines) 0.2 lux sensitivity (No IR) Zero lux (with IR Siny 1/3" super HAD CCD-II 760 H Next chip digital signal processor (DSP) 2 camera option IR illumination Day / Night indoor dome co or indoor dome Diversified fixed or varifocal lens (based on model) 12 VDC power with internal synchronization  Make (Pelco USA Model No. FDI-F4-4x/ Arecont Vision USA / Axis Sweden) or equivalent or as approved by the Engineer-in-Charge.	6	Nos		
47	Installation, Testing, Commissioning programming & handover charges of above CCTV system equipments.	1	Job		

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48	Supply and Fixing DVR for CC TV system as per requirement of the above system approved Make or as approved by the Engineer-in-Charge.	1	Job		
Cost of Electrical Work					0.00