

TELECOMMUNICATIONS CONSULTANTS INDIA
SCHEDULE OF QUANTITIES - ELECTRICAL

S.No	Description of Items	Qty	Unit	Rates	Amount
Sub Head 'A'	1.0 WIRING				
Item No 01 to 15					
1	Point wiring in steel conduit, with modular type switch:				
	Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed steel conduit, with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.				
	Group B	5298	Point	725.40	3,843,169
2	Twin Control point wiring in steel conduit, with modular type switch:				
	Wiring for twin control light point with 1.5 sq.mm FR PVC insulated copper conductor single core cable in surface / recessed steel conduit, 2 way modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FR PVC insulated copper conductor single core cable etc as required.	156	Point	927.90	144,752
3	Circuit/sub main wiring in steel conduit:				
	Wiring for circuit/submain wiring alongwith earth wire with the following sizes of FR PVC insulated copper conductor, single core cable in surface/recessed steel conduit as required				
3(a)	2 X 1.5 sq. mm + 1 X 1.5 sq. mm earth wire	12216	Metre	153.90	1,880,042
3(b)	2 X 4 sq. mm + 1 X 4 sq. mm earth wire	10680	Metre	191.70	2,047,356
4	Wiring in existing conduit :				
	Supplying & drawing following sizes of FR PVC insulated copper conductor, single core cable in the existing surface/recessed steel/PVC conduit as required.				
4(a)	1 x 1.5 sq. mm	5736	Metre	22.50	129,060
4(b)	2 x 6 sq. mm	1500	Metre	81.00	121,500
5	Telephone wiring in existing conduit:				
	Supplying & drawing following pair 0.5sq mm FR PVC insulated copper conductor, unarmoured telephone cable in the existing surface/recessed steel/PVC conduit as required				
	2 Pair	4320	Metre	21.60	93,312
6	TV cable in existing conduit:				
	Supplying and drawing co-axial TV cable RG-6 grade, 0.7	4020	Metre	28.80	115,776
7	S/F steel conduit:				
	Supplying & fixing of following sizes of Steel conduit along with accessories in surface/recess including painting in case of surface conduit, or cutting the wall and making good the same in case of recessed conduit as required.				
	32 mm	1500	Metre	182.70	274,050
8	S/F PVC conduit:				
	Supplying & fixing of following sizes of PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in case of recessed conduit as required.				
8(a)	25 mm	6180	Metre	58.50	361,530
8(b)	32 mm	840	Metre	72.00	60,480

9	S/F modular type switch/socket:				
	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
9(a)	Telephone socket outlet	240	Each	189.90	45,576
9(b)	TV antenna socket outlet	480	Each	119.70	57,456
10	S/F modular type electronic fan regulator:				
	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	846	Each	531.90	449,987
11	S/F modular boxes, base & cover plate:				
	Supplying and fixing following size/modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.				
	1 or 2 Module (75mmX75mm)	720	Each	154.80	111,456
12	S/F light plug point modular type accessories:				
	Supplying & fixing suitable size GI box with modular plate & cover in front on surface or in recess, including providing & fixing 3 pin 5/6 amps modular socket outlet and 5/6 amps modular switch, connection, painting etc. as required.(For light plugs to be used in non residential buildings).	2160	Each	360.90	779,544
13	S/F power plug point modular type accessories:				
	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	840	Each	475.20	399,168
14	S/F ceiling rose:				
	Supplying and fixing 3 pin, 5 amp. ceiling rose on the existing junction box/ wooden block including connection etc as required.	480	Each	30.60	14,688
15	S/F call bell/buzzer:				
	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	120	Each	54.00	6,480
Total of Sub Head 'A'					10,935,382.00
Sub Head 'B'	2.0 BOARD & BD's				
Item No 16 to 18					
16	S/F TP&N FSU in cubicle panel board:				
	Providing and fixing following capacity TP&N disconnector fuse switch unit inside the existing cubicle panel board with ISI marked HRC fuses including drilling holes in cubical panel, making connections, etc. as required.				
16(a)	100 Amp. TP&N	6	Each	4,039.20	24,235
16(b)	400 Amp TP&N	6	Each	12,987.90	77,927
17	S/F prewired TP MCB DB:				
	Supplying and fixing following way, three pole and neutral, prewired, sheet steel, MCB distribution board, 415 volts, on surfacel recess, complete with loose wire box, terminal blocks, duly prewired with suitable size FR PVC insulated copper conductor up to terminal blocks, tinned copper busbar, neutral link, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required.(But without MCBI RCCB/ Isolator)				
	6 way (4 + 18), Double door	120	Each	4,961.70	595,404

18	S/F 'C' series, SP MCB:				
	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'C' series, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
18(a)	Single pole	2208	Each	167.40	369,619
18(b)	Single pole and neutral	6	Each	461.70	2,770
18(c)	Triple pole and neutral	126	Each	981.00	123,606
	Total of Sub Head 'B'				1,193,561.00
Sub Head 'C'	3.0 E A R T H I N G				
Item No 19 to 24					
19	G.I.earth plate electrode:				
	Earthing with G.I. earth plate 600 mm X 600 mm X 6 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) as required.	24	Each	2,385.00	57,240
20	Copper earth plate electrode:				
	Earthing with copper earth plate 600 mm X 600 mm X 3 mm thick including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. (but without charcoal or coke and salt) as required.	24	Each	5,947.20	142,733
21	Salt / charcoal electrode for plate earth	48	Each	538.20	25,834
	Extra for using salt and charcoal for G.I. or copper				
22	P/F 25 mmx5 mm copper earth strip in pipe:				
	Providing and fixing 25 mm X 5 mm copper strip in 40 mm dia G.I. pipe from earth electrode, as required.	156	Mtrs	797.40	124,394
23	P/F 25mmx5mm GI earth strip in pipe:				
	Providing & fixing 25mmx5mm G.I. strip in 40mm dia G.I. pipe from earth electrode,as required	156	Metre	304.20	47,455
24	25mm X 5mm copper earth strip in surface recess:				
	Providing and fixing 25 mm X 5 mm copper strip on surface or in recess for connections etc. as required.	228	Metre	605.70	138,100
	Total of Sub Head 'C'				535,756
Sub Head 'D'	4.0 LIGHTNING CONDUCTOR				
Item No 25 to 28					
25	P/F G.I. lightning Conductor Final:				
	Providing and fixing of lightning conductor finial, made of 25 mm dia 300 mm long, G.I. tube, having single prong at top, with 85 mm dia 6 mm thick G.I. base plate including holes etc. complete as required.	24	Each	445.50	10,692
26	Reverting, sweating and soldering lightning Conductor tape:				
	Reverting, sweating and soldering of copper / G.I. tape (with another copper/ G I tape, base of the finial or any other metallic object) as required.	48	Each	65.70	3,154
27	P/F G.I. lightning Conductor tape in horizontal run:				
	Providing and fixing G.I. tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For horizontal run)	504	Metre	45.00	22,680
28	P/F G.I. lightning Conductor tape in vertical run:				
	Providing and fixing G.I. tape 20 mm x 3 mm thick on parapet or surface of wall for lightning conductor complete as required.(For vertical run)	480	Metre	57.60	27,648
	Total of Sub Head 'D'				64,174

Sub Head 'E'	NON-SCHEDULED ITEMS				
Item No 29 to 43					
29	Supplying and fixing of Bakelite Batten Holder (Large Size) (ISI marked) on existing inspection box, including connections etc. as requireds	3240	Each	33.30	107,892
30	Supply and erection of ceiling mounted circular light fitting Homedec make Model No. HL 4005 or equivalent with 18 watt CFL lamp Phillips make or equivalent. The fitting shall be fixed on ceiling surface on existing light point inspection box with brass machine screws	360	Each	549.90	197,964
31	Supply and erection of Recessed ceiling mounted circular light fitting in Homedec make Model 4001 or equivalent make suitable with non retrofit 13 watt CFL lamp of Phillips make or equivalent. The fitting housing shall be installed in ceiling while casting of concrete roof slab, including connections and cost of lamp etc.	360	Each	787.50	283,500
32	Supply and erection of wall mounted light fitting in Homedec make Model HL 1080 or equivalent make with 18 watt CFL lamps Phillips make or equivalent. The fitting shall be fixed on wall surface on existing light point inspection box with brass machine screws.	48	Each	875.70	42,034
33	Supply and erection of Fan Box (18cmx10cmx10cm) made of 16 gauge M.S. sheet (1.60 mm thick) with cover bakelite sheet 3 mm thick and M.S. round 12 cm dia 60 cm long complete to the entire satisfaction of the Engineer - Incharge.	846	Each	144.90	122,585
34	Supply & laying of PVC insulated and PVC sheathed/XLPE power copper conductor cable of 1.1 KV of size 4x10sqmm on surface or in the existing Metal/PVC pipe laid underground including the cost of accessories for laying on surface.	3780	Metre	315.90	1,194,102
35	Supplying & fixing following rating, four pole, (three phase & neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 30 milliamperes in the existing MCB DB complete with connections, testing & commissioning etc. as required.				
	40 Amps	120	Each	2,178.00	261,360
36	Supplying, installation, testing & commissioning of cubical type LT panel suitable for 415V, 3 Phase, 4 Wire 50 Hz AC supply system having front surface area 3 Sqm (Approx.) 250 mm deep fabricated in compartmentalized design from CRCA sheet steel of 2 mm thick for frame work and covers, cleaning & finishing complete with 5 tank process for powder coating in approved shade, having 200 Amp capacity extensible type TPN Aluminium Alloy bus bars of high conductivity, DMC/ SMC bus bar supports., bottom base channel of MS section not less than 100mm x 50mm x 5mm thick, fabrication shall be done in transportable sections, panel shall have 2 Nos. earth stud, Indicators, cable alleys for PVC insulated copper conductor unarmoured cable, including provision for the installation only of following switch gears and 3-phase meters:	6	Each	79,416.90	476,501
	i) Incomer 400 Amp. 415 volt, 50 Hz, Fuse Switch Unit				
	ii) Outgoing Chambers 20 Nos. each for installation of One 3-Phase Energy Meter and One MCB TPN 40 Amp., 415 volts.				

37	Supplying, installation, testing & commissioning of cubical type LT panel suitable for 415V, 3 Phase, 4 Wire 50 Hz AC supply system of size 600mmx600mmx200mm fabricated in compartmentalized design from CRCA sheet steel of 1.6 mm thick for frame work and covers, cleaning & finishing complete with 5 tank process for powder coating in approved shade, having 100 Amp capacity extensible type TPN Aluminium Alloy bus bars of high conductivity, DMC/ SMC bus bar supports., bottom base channel of MS section not less than 100mm x 50mm x 5mm thick, fabrication shall be done in transportable sections, panel shall have 2 Nos. earth stud, Indicators, cable alleys for PVC insulated copper conductor unarmoured cable, including provision for the installation only of following switch gears	6	Each	5,521.50	33,129
	i) Incomer 100 Amp. 415 volt, 50 Hz, Fuse Switch Unit				
	ii) MCB TP&N 63 Amp. (For Outgoing Lift Supply)				
	iii) MCB DP 1 No. and MCB SP 8 Nos.(Comman area lighting)				
38	Providing cable haudi of size 300mmx300mmx300mm with 115mm thick brick wall in cement, sand mortar 1:4 and 12 mm thick cement plaster inside with cement sand mortar in the ratio 1:4, including the cost of excavation, base of cement concrete 1:4:8 and Supply and erection of ISI marked precast cement concrete cover and frame with clear opening of 300mm x300mm complete in all respect. The job includes the cost of petty material such as cement, sand, bricks etc.as required.	24	Each	698.40	16,762
39	Supply and erection of Cable Junction Box made of 16 gauge MS sheet of size 300mmx300mm x60mm for LT cables. The junction box shall be recessed in roof slab while casting of RCC roof slab.The junction box shall be covered with 3mm thick white bakelite sheet complete to the entire satisfaction of Engineer-in-charge.	30	Each	172.80	5,184
40	Supplying and laying 120/103.5mm internal dia High Density Polyethylene double wall corrugated duct of Duraline make or equivalent manufactured from High Density Polyethylene 450mm below ground level after digging the trench of required size. The gap between duct and trench shall be filled up with dug out earth. The job also includes the cost of bend and socket of required size. The trench shall be properly dressed after laying the pipe and the surplus earth/malba shall be removed.	666	Metre	252.90	168,431
41	Supply and erection of Thermoplastic TV/Telephone Cable Junction Box with IP 65 protection of size 167mmx125mmx82mm of cat No. K9100 Hensel make or equivalent for Telephone/RG-6 cables. The junction box shall be fixed in wall complete to the entire satisfaction of Engineer-in-charge.	240	Each	575.10	138,024
42	Supply & erection of Thermoplastic Telephone Junction Box with IP 65 protection of size167mmx125mmx82mm Hensel make or equivalent make alongwith 10 pair Krone for termination of incoming & outgoing cables.The junction box shall be grouted in wall /mounted on surface.The job also includes termintaion of 5 twin pair telephone cables.	24	Each	927.00	22,248

43	Supply and making end termination with copper lugs/thimbles of Dowells make or equivalent for PVC insulated and PVC sheathed /XLPE power copper conductor cable of 1.1 KV of size 4x10 Sq.mm..	120	Each	20.70	2,484
	Total of Sub Head 'E'				3,200,548
	Total of Sub Head 'A'+ 'B'+ 'C'+ 'D'+ 'E'				15,929,421.00