

Part 'B' SCHEDULE OF ELECTRICAL WORK & LT PANELS

SUB SECTION / S.No.	Description of item	Unit.	QTY.	RATE (Rs)	AMOUNT(Rs)
	SUB HEAD :- A, INTERNAL WIRING				
I	POINT WIRING				
1.0	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-C	Point	238		
2.0	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.	Point	2		
3.0	Wiring for light/ power plug with 2X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 1 No 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Meter	725		
4.0	Wiring for light/ power plug with 4X4 sq. mm FR PVC insulated copper conductor single core cable in surface/ recessed steel conduit alongwith 2 Nos 4 sq. mm FR PVC insulated copper conductor single core cable for loop earthing as required.	Meter	200		
5.0	Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and 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).	Each	127		
6.0	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 15/16 & 5/6 amps modular socket outlet and 15/16 amps modular switch, connection, painting etc. as required.	Each	45		
7.0	Supplying and fixing call bell/ buzzer suitable for D.C./A.C. single phase, 230 volts, complete as required.	Each	1		
8.0	Supply and fixing fan box (hexagonal type) as per drg. Attached 75 mm side 75mm deep made of 16 SWG M.S. sheet having 6 Nos. knockouts of size 20/25 mm for conduit entry including fan hook made of 12mm M.S. Rod with bottom cover of 3mm thick phenolic laminated sheet, painting etc. as required.	Each	61		

SUB SECTION / S.No.	Description of item	Unit.	QTY.	RATE (Rs)	AMOUNT(Rs)
II	CIRCUIT /SUBMAIN WIRING				
1.0	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				
a)	2 X 2.5 sq. mm + 1 X 2.5 sq. mm earth wire	Meter	753		
b)	4 X 2.5 sq. mm + 2 X 2.5 sq. mm earth wire	Meter	326		
c)	4 X 6 sq. mm + 2 X 6 sq. mm earth wire	Meter	30		
d)	4 X 10 sq. mm + 2 X 10 sq. mm earth wire	Meter	60		
	SUB HEAD-B: LUMINARIES AND FIXTURES				
I	SUPPLY OF LUMINARES				
1.0	Supply of the following luminaires comprising of basic channel, holder, Electronic Ballast / Low Loss Copper Ballast (as mentioned in BOQ) starter, condenser, control gear box complete with decorative attachments, lamps etc. as per specification and as per catalogue number giving below				
a)	1 x TL- 5 28 W HE fluorescent light fixture.Philips Cat No. TMS 122/128 HF with GMS 122/128 R reflector or equivalent .	Nos	8		
b)	Decorative recessed fluorescent dark light fixture with 4x TL -5 14 W HE fluorescent lamp.Philips Cat No. TBS 869/ 414 D8 HF or equivalent.	Nos	94		
c)	Decorative recessed downlight fixture with 2 x PL-C 18W CFL lamp. Philips Cat No. FBH 145/ 218 HF or equivalent.	Nos	71		
d)	Attractive wall mounted light fixture with 1x PL -S 11 W CFL lamp. Philips Cat No. FMC 170/111 or equivalent.	Nos	2		
II	SUPPLY OF CEILING/ PROPELLER TYPE EXHAUST FANS (WITH GRAVITY LOUVERS) / CABIN FAN.				
a)	1200 mm sweep Ceiling fan.	Nos	51		
b)	300 mm dia 900 RPM exhaust fan.	Nos	2		
d)	Supplying and fixing stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required.	Each	51		

SUB SECTION / S.No.	Description of item	Unit.	QTY.	RATE (Rs)	AMOUNT(Rs)
III	INSTALLATION OF LUMINARIES AND FIXTURES				
a)	Installation, testing and commissioning of pre-wired, fluorescent fitting / compact fluorescent fitting of all types, complete with all accessories and tube etc. directly on ceiling/ wall, including connection with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable and earthing etc. as required.	Each	175		
b)	Installation, testing and commissioning of ceiling fan, including wiring the down rods of standard length (upto 30 cm) with 1.5 sq. mm FR PVC insulated, copper conductor, single core cable, including providing and fixing phenolic laminated sheet cover on the fan box etc. as required.	Each	51		
c)	Installation of exhaust fan upto 450 mm sweep in the existing opening, including making the hole to suit the size of the above fan, making good the damage, connection, testing, commissioning etc. as required.	Each	2		
d)	Extra for fixing the louvers/ shutters complete with frame for a exhaust fan of all sizes.	Each	2		
	SUB HEAD -C, DISTRIBUTION BOARDS				
I	DISTRIBUTION BOARDS				
1.0	Supplying and fixing following way, three pole and neutral, sheet steel, MCB distribution board, 415 volts, on surface/ recess, complete with tinned copper busbar, neutral busbar, earth bar, din bar, detachable gland plate, interconnections, phosphatized and powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator)				
a)	4 way (4 + 12), Double door, horizontal type	Each	1		
b)	6 way (4 + 18), Double door, horizontal type	Each	1		
c)	8 way (4 + 24), Double door, horizontal type	Each	4		
2.0	Supplying and fixing 5 amps to 32 amps rating, 240 volts, 'B' series, miniature circuit breaker suitable for lighting and other loads of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	Single Pole	Each	117		
3.0	Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	Each	33		
4.0	Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliampere in the existing MCB DB complete with connections, testing and commissioning etc. as required.				
a)	63 A	Each	6		
	SUB HEAD - D :- TELEPHONE / TV & DATA SYSTEM				
1.0	Supplying and drawing following pair, 0.5 mm dia FR PVC insulated copper conductor, unarmored telephone cable in the existing surface/ recessed steel/ PVC conduit as required.				
a)	2 Pair	Meter	2130		

SUB SECTION / S.No.	Description of item	Unit.	QTY.	RATE (Rs)	AMOUNT(Rs)
2.0	Supplying and drawing co-axial TV cable RG-6 grade, 0.7 mm solid copper conductor PE insulated, shielded with fine tinned copper braid and protected with PVC sheath in the existing surface/ recessed steel/ PVC conduit as required.	Meter	25		
3.0	Supplying and 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.				
a)	20 mm.	Meter	520		
b)	25 mm.	Meter	1000		
4.0	Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.				
a)	Telephone socket outlet.	Each	71		
b)	TV antenna socket outlet.	Each	1		
5.0	Supplying and fixing following size/ modules, GI box along with modular base & cover plate for modular switches in recess etc as required.				
a)	1 or 2 Module (75mm x 75mm)	Each	133		
6.0	Supply and fixing following Data /Lan modular socket on the existing modular plate including connections but excluding modular plate etc. as required.				
a)	RJ - 45 Socket.	Each	61		
7.0	Supply of UTP Cat 6 Data /Lan wiring cable for computer communication (Data / Lan wiring) system in the existing surface / recessed steel / PVC conduit as required.				
a)	1 No.	Meter	1830		
8.0	Supply and fixing of the following Telephone Tag Block made out of M.S sheets of 18 SWG thickness properly welded complete with all accessories such as Tag block, connector (KRONE make), mounting strips, tapped holes, fixing bolts, approved shade of paint after primer as per specifications.				
a)	100 Pair	Nos.	1		
b)	10 Pair	Nos.	1		

SUB SECTION / S.No.	Description of item	Unit.	QTY.	RATE (Rs)	AMOUNT(Rs)
9.0	Supply & fixing of 14 SWG under floor box alongwith 10SWG stainless steel cover plate.				
a)	350 x 350 x 50 mm deep	Nos.	2		
b)	300 x 300 x 50 mm deep	Nos.	2		
c)	250 x 250 x 50 mm deep	Nos.	2		
d)	200 x 200 x 50 mm deep	Nos.	2		
e)	150 x 150 x 50 mm deep	Nos.	2		
f)	100 x 100 x 50 mm deep	Nos.	2		
	SUB HEAD - E , L.T. PANELS (SUPPLY AND INSTALLATION)				
1.0	L.T. PANELS :				
1.1	Supply of the following cubical type panels made of 14 guage CRCA structure, base channel, complete with, moulded case circuit breakers, meters, indicating lamps, current transformer etc. Complete in all respects, insulated bus bars with heat shrinkable PVC sleeve in suitable bus chambers, interconnection, small wiring, name plate, danger plat, earth bus etc. & comprising of compartments with hinged door for each feeder & its accesories, cable alley with hinged doors, bus chamber with bolted door etc. The panel being of dust & vermin proof construction with rubber gasket attractively powder coating etc. The panel shall be free standing type/ wall mounted type as per relavant drawing and comprising with the following.				
Note:-					
1	All MCCBS shall be with operating handle.				
2	CTs burden shall be 15VA & accuracy class 1.0				
3	CTs shall be cast resin type .				
4	All MCCBs shall be with thermal magnetic/ Microprocessor based releases.				
5	All indication lights shall be LED type.				
6	All meter shall be digital type.				
7	Rated Short Time withstand current of all ACB's are lcw for one second.				
8	Breaking Capacity of all MCCB's are lcs service breaking capacity				

SUB SECTION / S.No.	Description of item	Unit.	QTY.	RATE (Rs)	AMOUNT(Rs)
A)	MAIN L. T. PANEL (MLTP)	Set	1		
a)	INCOMING :				
i)	1 No.400A TP MCCB (35kA)				
b)	BUS BAR :				
i)	One set of 400A Alu. Bus Bar with PVC Sleeve in sealed M.S. Painted bus chamber.				
c)	METERING , INDICATIONS AND RELAYS :				
i)	1 set. of R/ Y/ B phase indicating lamp with control MCB's.				
ii)	1 No. (0 - 400A) Digital Ammeter with built-in selector switch and CT's.				
iii)	1 No . (0 - 500 V) Digital Voltmeter with built-in Selector switch & control MCB's.				
d)	OUT GOINGS :				
i)	2 Nos. 100A, TP MCCB (25 kA)				
ii)	14 Nos. 63A, 4P MCB (10 kA)				
e)	ON lamps shall be provided on all outgoing feeders				
f)	1 No. 50 x 6mm GI Earth Bus across the width of the panel.				
B)	MAIN UPS PANEL BOARD	Set	1		
i)	INCOMING :				
ii)	1 No.100A, TP MCCB (25 kA)				
ii)	BUS BAR :				
i)	One set of 100A TPN Cu. Bus Bar with PVC Sleeve in sealed M.S. Painted Bus Chamber.(Neutral Bus Bar & Neutral links of MCCB's shall be double of phase bus bar)				
iii)	INDICATIONS :				
i)	One set of R/Y/B phase indication lamp with control fuse.				
iv)	OUTGOING :				
i)	3 Nos 63 A TP MCCB (10kA)				
g)	1 No. 40 x 5 mm. G.I. Earth Bus across the width of the panel.				

SUB SECTION / S.No.	Description of item	Unit.	QTY.	RATE (Rs)	AMOUNT(Rs)
	SUB HEAD - F , L.T. CABLES (SUPPLY)				
1.0	L.T. CABLES				
1.1	Supply of the following 1100 Volts Alu/ Cu. Conductor, PVC insulated PVC sheathed, steel armoured/ unarmoured or XLPE cables as per IS-1554/ 7098 Part- I and as per stanard specification				
A)	ALUMINIUM CABLE (ARMOURED)				
a)	3.5 core 300 sq.mm XLPE	RM	100		
b)	4 core 50 sq.mm PVC	RM	30		
B)	COPPER CABLES (ARMOURED)				
a)	4 core 10 sq. mm.	RM	350		
b)	4 core 6 sq. mm.	RM	50		
1.0	L.T. CABLES (INSTALLATION)				
1.1	Laying and fixing of one number PVC insulated and PVC sheathed/ XLPE Aluminium / Copper conductor cable of 1.1 KV grade on surface as required.				
A)	ALUMINIUM CABLE (ARMOURED)				
a)	3.5 core 300 sq.mm XLPE	RM	100		
b)	4 core 50 sq.mm PVC	RM	30		
B)	COPPER CABLES (ARMOURED)				
a)	4 core 10 sq. mm.	RM	350		
b)	4 core 6 sq. mm.	RM	50		

