

SCHEDULE OF SPECIFICATIONS AND QUANTITIES FOR ELECTRICAL , LAN AND AC WORKS OF KALNA BRANCH -- UCO BANK , UNDER BURDWAN ZONAL OFFICE

SL.no	DESCRIPTION OF ITEMS	UNIT	QTY	RATE	AMOUNT
1	POINT WIRING (FRLS wires to be used)				
a	Wiring for the following light / wall / fan/ exhaust fan, call bell points with 1.5 sqmm PVC insulated stranded Cu conductor wire in concealed / exposed medium grade ISI marked PVC conduits as called for in specification including providing 1 sqmm insulated Cu earth wire including cost of circuit wiring from DB to the point with 2x2.5 sqmm + 1x1.5 sqmm complete with providing and fixing of accessories like saddles, clamps, flexible pipes, dash fasteners etc. modular switches with face plates , switch boxes, grid plates are included in the above rate .				
	1. Primary points	nos	14		
	2. Loop points	nos	10		
	3. Primary point (wall and exhaust fan controlled by 1 switch and one 5 Amp. socket)	nos	8		
	The above work includes extensions of points with flexible conduits as reqd. to table bottoms etc. as reqd				
b	Wiring for 5Amp light plug point with 2 x 2.5 sq mm + 1 x 1.5 sqmm PVC single core copper wire in PVC polythene pipe with galvanized iron junction & switch boxes & clip in type, 6 Amp modular type switches, 5Amp socket with all accessories, T&P & as directed by the Engineer-in-charge at counter/table. maximum 6 points per circuit	nos	10		
c	Wiring of 15 Amp power sockets with switch on separate board with 2 x 4 sq mm + 1 x 1.5 sqmm) PVC single core copper wire in PVC/ Super polythene pipe with galvanized iron junction & switch boxes & clip in type 6 Amp modular type switches with all accessories, T&P & as directed by the Engineer-in-charge at counter/table. maximum 6 points per circuit .	nos	8		
d	Wiring of AC points with 20 Amp plug socket with switch on separate board, for 2 TR , 1TR AC machines, with 2 x 6 sq mm + 1 x 2.5 sqmm PVC single core copper wire in PVC polythene pipe with galvanized iron junction & switch boxes & clip in type 20 Amp modular type switches with all accessories, including providing metal clad socket with SPMCB in sheet steel enclosure T&P & as directed by the Engineer-in-charge . 1 point per circuit . . Rate to include the supply and installation of 16A and 20 A Starters also. for 3 nos --2TR and 1 no. 1 TR machines.	nos	4		

e	Concealed conduit wiring to call bell point with one gong bell of 6" dia placed at strategic point with 6 Amp switch bell push clip in type modular type fixed on G.I. boxes placed at skirting level for emergency use, the wiring details are as per Sr .no. - 01. The places as located in drawing & as per direction of Engineer-in-charge.	set	1		
2	DISTRIBUTION BOARDS				
	Distribution boards: Design, manufacture, supply, of 1.6 mm th. Sheet steel fabricated surface / recessed mounted, vertical configuration , double door type, distribution boards (factory made with powder coating)				
A	DB for normal Lighting and Power				
	4 way TPN DB with Incoming : 40A 4 Pole MCB Outgoing : 8 nos SPMCB	nos	1		
B	DB for Airconditioning				
	4 way TPN DB for AC with Incoming : 63A 4 Pole MCB Outgoing : 6 nos SPMCB	nos	1		
C	DB for UPS Input				
	4 way TPN DB for AC with Incoming : 40 A 4 Pole MCB ---1 no Outgoing : 60 A DP MCBs ----- 1 no	nos	1		
3	UPS Output				
	40A DP MCB in MS box (for UPS OUTPUT in UPS room)	Set	1		
4	UPS DB				
	Distribution boards 1 No. 60A 2 pole MCB isolator Out going 10 Nos. 6/10 SP MCB s (for UPS distribution boards)	set	1		
5	SUB MAINS WIRING - (FRLS wires to be used)				
	Supply of all required materials and wiring to submains with following number and sizes of PVC insulated 1100 volt grade standard copper wire run inside pre-laid PVC conduit pipe of ISI mark as required and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
a	2 x 4 sqmm + 1 x 2.5 sqmm Cu wire general (for Light and Power DB)	mts	170		

b	4 x 16 sqmm + 1 x 2.5 sqmm Cu wire general (for AC DB)	mts	150		
c	4 x 10 sqmm + 1 x 4 sqmm Cu wire general (for UPS supply) .	mts	150		
d	2 x 6 sqmm + 1 x 2.5 sqmm Cu wire general (from UPS room to DB)	mts	38		
e	Supplying and laying 2 x 2.5 sqmm Cu. Wire in PVC conduit from panel to Sign board	nos	2		
6	EARTHING				
a	Providing and fixing of chemical earth electrode made out of 50mm dia class-B Asaha lock or equivalent 2m length with copper plate made out of 600 x 600 x 3.15 mm tinned copper plate along electrode with one number 40 x 5mm tinned copper strip grazed with the plate buried vertically with top edge of the plate at a depth of 1500 mm with arrangements for termination of copper strip of earth continuity conductor including cost of charcole, saltoreign soil, water pouring arrangements brick massonry encloser on top with R.C.C cover complete with labour and material as per direction of Engineer-in-charge as per IS:3043 1987 (for UPS , panel board)	set	3		
b	do as above with 600 mm x 600 mm x 6 mm th. G.I plate) for MAIN PANEL) (2 for BRANCH ,1 for UPS)	set	3		
7	EARTH STRIPS / WIRES				
	Supply, installation, effecting proper connection , testing, and commisioning of the following size CU. / G.I earth strip / wire or in recess as reqd.				
a	25 mm x 3 mm copper earth strip	rmt	30		
b	10 sqmm insulated Cu. Earth wire in PVC conduit pipe (for UPS)	rmt	30		
c	25 mm x 3mm G.I earth strip	rmt	30		
d	8 mm dia G.I earth wire	rmt	30		
8	FITTINGS AND FIXTURES				
a	Supply,installation and testing of recess LED lights fittings (40 Watt) of square type - 2' x 2' . with all accessories complete of Philips / Havells make as required as per direction of Engineer in charge.	nos	16		
b	Supply,installation and testing of recess LED light fittings Nos. (15/16 watt) of round type -6" dia with all accessories complete of Philips /Crompton/ Wipro make as required as per direction of Engineer in charge.	nos	12		

c	Supply, installation and testing of single tube lights T5 patty Nos fittings (36 watt) - LED type of surface mounting with all accessories complete of Philips/Crompton/ Wipro make as required as per direction of Engineer in charge.	nos	9		
d	Providing and fitting of 450 mm sweep Wall mounted metal body fan of approved make .	nos	9		
e	Providing and fitting of 1200 mm sweep ceiling fan of approved make .	nos	2		
f	Providing and fitting of 400 mm sweep cabin metal body fan of approved make .	nos	2		
g	Providing and fitting of 400 mm sweep Exhaust fan, of metal body of approved make , for UPS room	nos	1		
h	Providing and fitting of call bell of approved make .	nos	1		
i	Providing and fitting LED Batten Light -2 ' length for cash counter-- 8W	nos	1		
j	Providing and fitting of modular fan regulator of approved make .	nos	2		
10	MAIN PANEL BOARD				
a	Supply, delivery, installation , testing , commissioning , of L&T indoor wall floor mounted type distribution boards made out of 2 mm thk. CR sheet metal duly acid treated premised & painted with 2 coats of enamel paint compartment arrangement for each equipment & bus bar chamber on the top of the panel running horizontal through out its length duly lamp , vermin proof having provision cable by conduit entry , earthing stud as per specification mentioned below duly factory wired confirming to the relevant ISS & as per special condition of contract , making good the damages M.S. Cubical type Panel board should have hinged door at the front. The panel shall be provided with all accessories & following arrangements complete in all respect & direction of EIC (before fabrication of panel board drawing is to be approved by Engineer-in-charge).				
	125 Amp TP MCCB --1 no				
	0-500V CTs --3 nos				
	3 nos. indication lamps with 3 fuses --1 set	set	1		
	100 A 4P copper bus bar ---1 set				
	63 A - 4P MCCB for BRANCH --- 1 SET				
	63A - 4P MCCB for AC --- 1 SET				
	1No 100 A- HRC FSU.with rewirable fuse links for generator				
	Outgoing -				
	100 A 4P Change over switch --1no				
	63A 4P MCB ---1 no				

	63A DP MCB ---1 no				
	Outgoing- 1 No 63A DP MCB for A.C				
	2 Nos 63 A DP MCB for U.P.S incomer and outgoing				
	1 No 40 A DP MCB for LDB / PDB. 40A DP MCB Spare				
	1No 32 A DP MCB for Glow sign board (1 spare)				
	1No. VAF Digital meter with CT.				
b	SWITCH NEAR METER				
	Providing and fixing 200Amp MCCB in 16 gauge sheet cubicle box. of L/T DH -200 25KA (near meter) complete with incoming and outgoing connections.	set	1		
12	TIMER				
	Supply & installation of Timer Box for Glow sign Supply comprising of the following :	set	1		
	1 FOR BRANCH				
	1 no SP MCB				
	1 Nos 25A rated Contactor				
	1 no 24 Hours Timer				
13	Supply and erection of earth bus on wall (min. length 0.3 mtr.) on insulator with drilled holes on the bus with GI bolt , nut , washer etc for the following:-				
	With (25x3) mm CU flat	each	2		
14	Dismantling the existing fixtures and electrical line s and making temporary arrangement of electrical and LAN line to make the branch functional		L.S		
15	Supply & installation of 2 nos. 32A DP Changeover switch to be fixed and complete with one no.60A rated copper Bus bar for changing supply from one UPS to another with all accessories.	set	2		
16	Marking of all DB's & Main switches' Change over and power outlet points	job	1		
17	<u>DISTRIBUTION CABLE</u>				
A	Supply & lay 1.1 KV grade PVCA AL cable on wall having MS /HDP pipe protection near floor level and clamping as required for the following:-				
a	35 Sq mm 4 core Al with 2 nos 10 SWG GI wire-MAIN CABLE	30	Mtr		
b	16 Sq mm 4 core Al with 2 nos 10 SWG GI wire ---CABLE for generator	45	Mtr		
c	2.5 sq mm 2 core CU for UPS Plate Earthing	25	Mtr		
d	2 nos. 35 sq. mm. CU flexible wire through GI flexible pipe complete with end termination with CU sockets.	20	Mtr		
	(Meter loop connection with Main SFU & Busbar)				
B	Making end termination of 1.1 KV grade PVCA Al cable with supply of cable end box , brass Gland, CU crimping socket & jointing materials as required for the following:-				

a	35 Sq mm 4 core Al	1	Each		
b	16 Sq mm 4 core Al	1	Each		
18	At the end of the work to submit circuit diagram with with Electrical Audit report to be signed by an electrical engineer having valid registration no.	L.S	L.S		
		excluding AC Machines - X			
19	COMPUTER LAN WIRING				
a	Supply,installaation of rigid PVC conduit accessories bent flexible conduit etc and fixing by PVC bar saddle on wall or wooden surface	170	mt		
b	Supply ,installation of UTP cable in prelaidd PVC conduit	170	mt		
c	Supply,installation of UTP cable patch chord 2 mts. Long including termination and socketing . 3 additional for Fire alarm, CCTV and Router	9	Each		
d	Supply and fixing of RJ-45 UTP formation outlet -Cat-5e(1 module) with front cover plastic /flush metal box on surface of wall . 3 additional for Fire alarm, CCTV and Router	9	Each		
e	Supply and fixing of 24 port D-Link make 10/100mbps switch and front plate with cover flush metal box on surface of wall	1	each		
f	Supply and installation of Cat-5-24 port patch panel	1	each		
g	Supply and installation of 9U Metal rack HCL	1	each		
h	Supply and installation of UTP cable patch chord 1 mt	9	Each		
	including terminating and socketing Digi Link			Y	-
20	UPS WIRING				
a	Wiring for Power Point 6/16 A Switch & Socket with 25mm PVC pipe with 2x2.5 Sqmm wire and 1x1.5 Sqmm green earth Copper wire &FRLS type through PVC casing 20 mm dia 16 SWG with ISI mark to lay from UPS MCB DB to plug point board	Mtr	175		
b	Supply and fixing of 2 x 6 Amps 5 pin socket + 1 x 16 amps 6 pin socket in single board (under table) + 1 x 16 A switch (Modular switch + socket) in another board above table as per direction	Set	6		
c	Do- but 3 x 6/16 , 6 pin socket with three control switch to provide near HUB Rack and line printer to be connected from UPS power.	Set	2		
d	Supplying, installation of UPS incoming 32 Amps industrial socket with 32 Amps TPMCB (2 nos. for out going and 2 nos. for incoming)	Nos.	2		
				Z	-

		TOTAL - X+ Y+ Z			-
21	BUY BACK OF ALL OLD ELECTRICAL FITTINGS AND FIXTURES , INCLUDING FAN , LIGHT	L.S			
	NET GRAND TOTAL				
	Rupees				
	BOQ OF AC WORKS OF KALNA BRANCH FOR UCO BANK -				
1	ANCILLARY WORK				
A	Installation of units				
a	1.0 TR SPLIT(Copper Condenser Coil)	1	No		
b	2.0TR SPLIT(Copper Condenser Coil)	3	Nos		
B	Frame Work:				
	Fabrication, supply and installation of painted MS base stand	4	Nos		
C	Copper Refrigerant Piping for 2.0 TR (beyond 5RMT per AC)	15	Rmt		
D	Electrical cabling between indoor and outdoor unit	15	Rmt		
E	PVC Drain Piping	15	Rmt		
	TOTAL AMOUNT FOR A.C ANCILLARY WORK				
	GRAND TOTAL ---- ELECTRICAL + AC WORKS				
	Rupees + G\$				

