

PROPOSED REFURBISHING WORK FOR KASHIMNAGAR BRANCH

CANARA BANK CIRCLE OFFICE KOLKATA

II. SCHEDULE OF QUANTITIES FOR ELECTRICAL AND ALLIED WORKS

ITEM NO.	DESCRIPTION	QNTY.	UNIT	RATE		AMOUNT	
				RS.	P.	RS.	P.
1.0	<u>SWITCH/ MCB</u>						
1.1	Supply & erection of 415V/230V equipment individually on wall housed in MS enclosure with metal front cover for the following:						
1.1.1	100A FP SFU with HRC fuse links as main incomer with cable entry box.	1	Each				
1.1.2	63 A TPN Isolator with cutout DB(for Master switch for controlling Lights, Acs., power point excluding UPS ,Server & CCTV wiring distribution at Branch Entrance location	1	Each				
1.1.3	40A DP RCCB (MAKE :LEGRAND/L&T)	1	Each				
1.1.4	32A 20KA 230-400V, 50/60HZ FP SURGE PROTECTION DEVICE(HAGER MAKE)	1	SET				
1.1.5	63 A DP MCB for UPS INPUT	2	Each				
1.1.6	32A DP MCB for UPS OUTPUT	2	Each				
1.1.7	TPN Busbar chamber having 4 nos. 25x6mm CU Bars fixed on insulators.	1	Each				
1.1.8	2 x 10A SPMCB with enclouser for continous supply of server & CCTV LINE	1	Each				
2.0	<u>DISTRIBUTION BOARD</u>						
2.1	Supply & erection of 415V, TPN wall mounting DB housed in Horizontal Double door DB box consisting of the following:-						
2.2.1	<u>MDB:</u> i) Incomer- 1 No - 63A 4P MCB (10KA). ii) Outgoing- 7 Nos. - 32 SP MCB (10KA). (UPS supply and LDB supply)	1	Set				
2.2.2	<u>PDB / AC DB:</u> i) Incomer -1 No- 100A 4P MCB Isolator. ii) Outgoings- 10 nos. -16/20 SP MCB (10KA).	1	Set				
3.0	Supply & erection of 230V SPN Wall mounting DB housed in SPN double door DB box consisting of the following:-						
3.1.1	<u>LDB:</u> i) Incomer- 1 No- 32A 2P MCB(10KA) ii) Outgoing-10 nos. -6A/10A SP MCB(10KA)	1	Set				
3.1.2	<u>CDB:</u> i) 1 no - 25A DP MCB(10KA) ii) 2 nos. - 10A SP MCB(10KA) iii) 6 nos. - 6A SP MCB(10KA)	1	Set				
4.0	<u>DISTRIBUTION CABLE / WIRE</u>						
4.1	Supply & lay 1.1 KV grade PVCA CU cable on wall having MS /HDP pipe protection near floor level and clamping as required for the following:-						
4.1.1	50 Sq mm 4 core Cu with 2 nos 10 SWG GI wire	40	Mtr				
4.1.2	20 Sq mm 4 core Cu with 2 nos 10 SWG GI wire	35	Mtr				
4.1.3	10 sq mm 4 core Cu with 2 nos 12 SWG GI wire	30	Mtr				
4.1.4	6 sq mm 4 core Cu with 2 nos 12 SWG GI wire	30	Mtr				

4.1.5	2.5 sq mm 2 core CU for UPS Plate Earthing	30	Mtr	
4.1.6	4 nos. 16 sq. mm. CU flexible wire through GI flexible pipe complete with end termination with CU sockets. (Meter loop connection with Main SFU & Busbar)	10	Mtr	
4.2	Making end termination of 1.1 KV grade PVCA CU cable with supply of cable end box , brass Gland, CU crimping socket & jointing materials as required for the following:-			
4.2.1	50 Sq mm 4 core Cu	2	Each	
4.2.2	16 Sq mm 4 core Cu	2	Each	
4.2.3	10 sq mm 4 core Cu	6	Each	
4.2.4	6 sq mm 4 core Cu	5	Each	
4.2.5	4 sq mm 2 core CU	10	Each	
5.0	<u>16A RAW POWER OUTLET POINT WIRING</u> Wiring for Power outlets from DB with 1.1 KV grade 2x 2.5+1x1.5 PVC insulated copper conductor wire (FRLS) through suitable size PVC conduit complete with 1 no 6/16A socket with 16A control switch in suitable size modular box with front plates (Cabtree Legrand), junction box, circular box elbows etc and all other accessories surfaced on wall above false ceiling and concealed by chase cutting on wall & making connection complete. (Maximum 2 nos. sockets cluster in one circuit connecting by looping method).	2	Each	
6.1	<u>A.C. POWER POINT WIRING</u> A.C. power point wiring from PDB with 1.1KV grade 2 nos. single core 4.0 sq. mm + 1 no. 2.5 sq mm (Green colour for Earthing) PVC insulated copper conductor wire (FRLS)through suitable size PVC pipe on wall / ceiling surface with all wiring accessories. The work includes supply & fixing by chase cutting on wall, North West /Cabtree make Starter 18-25A (MS housed) unit with 25A socket & matching Plug top complete with all interconnections for 1.0/1.5/2 Ton ACs.	6	Each	
7.0	Wiring /cabling with 660/1100 V grade PVC insulated multi stranded copper wire/cable(FRLS) through ISI marked minimum 2-20 mm (max) thick PVC conduit with junction box, circular box, elbows, bends, couplers and other accessories concealed (below the false ceiling) or by chase cutting on wall/floor or on surface by bar saddles.			
7.1.1	2X4 + 1X 2.5 sq mm. (FOR Glow sign supply,LDB Supply)	180	Mtr	
7.1.2	1X6 SQMM CU wire for earthing	170	Mtr	
7.1.3	2X2.5 + 1x1.5 sq mm. (for UPS & Raw power Circuit & Continous supply for server & CCTV line)	180	Mtr	
7.1.4	4X6 + 1X 2.5 sq mm. (FOR UPS POWER INPUT WIRING)	50	Mtr	
7.1.5	2X6 + 1X 2.5 sq mm. (FOR UPS POWER OUTPUT WIRING & Lighting on & Off Invertor line wiring)	150	Mtr	
8.0	<u>POINT WIRING:</u>			
8.1	Supply & wiring with 3x1.5 sq. mm 1.1 KV grade PVC S/C multistrand CU wire (FRLS) in suitable size PVC conduit & accessories having control board with modular switch mounted on suitable front plate and housed in recessed MS box. The point wiring also include circuit			
8.1.1	wiring with 1.1 KV grade 2 nos. single core 2.5 sq. mm +1 no. single core (green colour for Earth) PVC insulated flexible copper conductor wire through suitable size PVC conduit from DB to Switch board, interconnection and mending good all damages to original finish. (Max.8-10 points or 700-800Watts per Circuit is allowed). One Light controlled by 6A switch	26	Each	
8.1.2	Two Light controlled by 6A switch	12	Each	
8.1.3	Exhaust Fan point with 6A switch	5	Each	
8.1.4	Bracket fan point /Ceiling Fan point with 6A switch	12	Each	

8.1.5	Modular type 6A switch, 1 no. 6A 5 pin socket point mounted on suitable front plate on separate switch board other than light / fan switch board. (Power to be tapped from nearest S.B/ LDB).	9	Each	
8.1.6	Call bell point with bell push and bell (for manager's Chamber).	1	Each	
9.0	<u>COMPUTER POWER OUTLET CLUSTER POINT WIRING</u>			
9.1	Computer socket outlet cluster point wiring with 1.1KV grade 2x 2.5 + 1x1.5 sq. mm. PVC insulated flexible copper conductor wire(FRLS) through suitable size PVC conduit with all accessories up to connection of 2/3 nos. sockets cluster in one circuit connecting by looping method. The work includes supply and fixing of sockets outlet cluster components as detailed below:- 1 nos.- 16A modular type switch. 3 nos. - 6/16A 5 pin modular type socket 1 each no. - Front plate & MS box. (for Each Table & counters)	11	Each	
10.0	<u>FAN & EXHAUST FAN</u>			
10.1	Supply, erection and connection of 400 mm 230V oscillating type full Metal body wall mounted bracket Fan.	12	Each	
10.2	Supply, erection and connection of 225 mm 1400 rpm, 230V Heavy duty metal exhaust Fan with wire guard net including wall cutting and finishing.	4	Each	
10.3	Removing of Existing ceiling fans and refixing in the store room, safe room, ups room, record room , passage with wiring charges	5	Each	
11.0	<u>Call Bell</u> Supply and fixing of call bell with modular type push complete with plate & box to be fixed (1 each in Floor)	1	Each	
12.0	<u>LIGHT FITTINGS</u> Supply, erection and connection of fluorescent / compact fluorescent / mini halogen fitting with lamp , ballast / Transformer and other accessories for the following as per approved Brand/Make of Materials.			
12.1.1	42W 2 X 2 LED LIGHTS	20	Each	
12.1.2	15 W LED DOWN LIGHTERS	10	Each	
12.1.3	20 W LED TUBE LIGHT	16	Each	
12.1.14	LED LIGHT STRIPS (@5MT= 1 ROLL)	0	ROLLS	
12.1.4	5A 12 V DRIVER 12NC	0	SET	
13.0	<u>TELEPHONE CABLE</u> Supply, lay and connect PVC insulated CU conductor and armoured 10 pair Telephone cable for the following:-	40	Mtr	
14.0	<u>TELEPHONE POINT</u>			
14.1	Telephone point wiring with 2 pair PVC insulated CU conductor (0.5mm) telephone wire drawn through PVC conduit.	3	Each	
14.2	Supply and erection of modular type telephone outlet RJ11 mounted on suitable front plate housed in recessed MS box.	3	Each	
15.0	<u>EARTHING</u>			
15.1.1	Supply and election Earth station with 600 x600x3mm GI Plate with earth strip / wire connecting arrangement including excavation and back filling with 25 mm dia GI pipe for watering.(for UPS & LIGHT FAN Earthing)	2	Each	
15.1.2	Supply and erection of masonry pit for each Earth station having CI/RCC inspection cover.	2	Each	
16.0	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:-			
16.1.1	With (25x6) mm GI flat	2	Each	
16.1.2	With (25x3) mm CU flat	2	Each	
17.0	Supply and lay GI flat for earthing underground /on wall including connection for the following:-			
17.1	(25x3)mm GI flat	50	Mtr	

18.0	COMPUTER LAN SYSTEM :			
a)	Supply Laying & connection of CAT-6 wire through 25mm PVC rigid pipe from HUB to IO box all complete with accessories & 16SWG pull out wire for drawing data cable.	0	Mts.	
b)	Providing & fixing I/O Box with RJ 45 socket	0	Nos.	
c)	PATCH CORD 1 MT LENGTH	0	Nos.	
d)	PATCH CORD 2MT LENGTH	0	Nos.	
e)	24 port Patch Panel	0	job	
f)	10/100 MBPS 24 PORT SWITCH	0	job	
19)	DISMANTLING WORK: Dismantling of electrical items like light fittings, fan, wires, switches, boards etc along with all allied items like LAN and Telephone wires and all items dismantling as per need of the site.	1	job	
NET TOTAL (Rs.) GST EXTRA AS APPLICABLE				
Amount in Words:				

APPROVED MAKE OF MATERIALS		
1	Switch fuse units (HRC)	LEGRAND / INDO-ASIAN / HAVELLS
2	Timer (TSQ 100)	L & T / HAVELLS
3	Voltmeter & Ammeter	A. E. / IMP
4	Voltmeter & Ammeter selector switches	KAYCEE / L & T
5	Phase indicating lamp	Vaishno / SIEMENS / ROSS controls
6	Capacitor	CROMPTON/SIEMENS
7	HRC fuses	GE power / SIEMENS / L & T / SCHNEIDER
8	Power Cable : XLPE	GLOSTER/POLYCAB/HAVELLS / NICCO
9	HRC fuse base & carriers.	GE power / SIEMENS / L & T / SCHNEIDER
10	1.1 KV grade PVC insulated armoured aluminium cable (ISI marked)	GLOSTER / NATIONAL / NICCO / HAVELLS
11	1.1KV / 600V grade PVC insulated & sheathed / insulated copper wire & flexible cords (ISI marked).	FINOLEX / HAVELLS
12	RCCB / ELCB / MCCB	LEGRAND / INDO-ASIAN / HAVELLS
13	Moulded case circuit breaker	LEGRAND / INDO-ASIAN / HAVELLS
14	RCCB / ELCB	LEGRAND / INDO-ASIAN / HAVELLS
15	Switch fuse with rewirable fuses. (6A & 32A TPN)	LEGRAND / INDO-ASIAN / HAVELLS
16	Isolator	LEGRAND / INDO-ASIAN / HAVELLS
17	Changeover switch (on load type)	LEGRAND / INDO-ASIAN / HAVELLS
18	MCB distribution board	LEGRAND / INDO-ASIAN / HAVELLS
19	6/16 Amp modular type switch / flushed type plug socket	ANCHOR (Roma) / CRABTREE / INDO-ASIAN
20	6/16 Amp modular switch / socket, module plate & mounting M.S. / PVC box.	ANCHOR (Roma) / CRABTREE / INDO-ASIAN
21	16/25 Amp., 2 module electronic regulator	ANCHOR (Roma) / CRABTREE / INDO-ASIAN
22	Ceiling rose	KAY / EPP / ANCHOR / JJ
23	Holder	KAY / EPP / ANCHOR / JJ
24	Alarm bell	KHERAJ / GETCO
25	Black enamelled Steel conduits (conforming to IS in all respects)	BEC / SUPREME / AKG
26	Compression type brass gland	DOWELLS / JOHNSON / COMET
27	Cable termination socket	DOWELL'S
28	Light fitting & lamps	PHILLIPS / HAVELLS
29	Ceiling / Wall Mounted Fan	CROMPTON / POLAR / KHAITAN / HAVELL'S
30	Exhaust fan	CROMPTON / POLAR / KHAITAN / HAVELL'S
31	Industrial type socket & top	HAVELL'S / CROMPTON / LEGRAND
32	Telephone wire	FINOLEX / RRR/NATIONAL
33	Starters	NORTH WEST / CABTREE
34	All other items not covered above	As per sample approved by Employer/Consultant