BOQ OF CIVIL, FURNISHING, SANITARY PLUMBING, ELECTRICAL, LAN WORK FOR BANK OF BARODA - NEWTOWN, KOLKATA

C	Electrical Work	Qty.	Unit	Rate (Rs.)	Amount (Rs.)
1	**TPN DB FOR LIGHTING :** MCB-Distribution Board - Supplying and installation of 415/250V miniature circuit breaker distribution board in 16SWG sheet steel enclosure, with double door, internally wired, neutral end earth busbar, and each comprising of following MCBs having short circuit level 10KA & `C` curve characteristic. Each MCB Distribution board shall comprise of following and including blank plates, inscription marking, phase neutral and earth bars, mounted on M.S. Frame on wall including cutting wall and mending good damages. Incoming - 1 No. 63A TPN MCB Outgoing – 2nos 32A TP MCB for connection to UPS 18Nos. 10A/16A/25A/32A SP MCB	1	No.		
2	**TPN PDB FOR A/C & POWER SS** : MCB-Distribution Board Supplying and installation of 415/250V miniature circuit breaker distribution board in 16SWG sheet steel enclosure, with double door, internally wired, neutral end earth busbar, and each comprising of following MCBs having short circuit level 10KA. & `C` curve characteristic. Each MCB Distribution board shall comprise of following and including blank plates, inscription marking, phase neutral and earth bars, mounted on M.S. Frame on wall including cutting wall and mending good damages. Incoming - 1 No. 63A TPN MCB Outgoing - 12 Nos. 10A/16A/25A/32A SP MCB Make of DB & 2 nos. 32A TP MCB	1	No.		
3	**Sub Main Wiring from LT panel / Busbar to TPN DBs** : Supply and Fixing of Distribution wiring with4 X 10 Sq. mm + 2 X 6 Sq.mm Single Core 1100V grade PVC insulated unsheathed stranded copper FRLS wire in in concealed 25mm dia PVC Conduit Pipe partly laid over false ceiling & partly concealing of 25mm dia PVC Pipe in Brick wall / floor / wooden partition / furniture including including making good the damages. The supply and laying of PVC Pipe, inspection boxes & other accessories are included in the rate.	80	RM		

4	**Point Wiring (Concealed Type)** – Point Wiring (Concealed Type) –a)Supply & Fixing Point Wiring (Concealed Type) including circuit (3x1.5 sq mm) FRLS 1.1kV grade unsheathed stranded Copper Wire from DB to Switchboard & Switch Board to Switch Board & Point Wiring from switchboard to individual light, ceiling fan ,exhaust fan, wall bracket fan, call bell etc & 6A Plug Socket with 3X 1.5 Sq.mm Single Core 1100V grade unsheathed stranded copper wire in concealed 20mm dia PVC Conduit Pipe partly laid over false ceiling & partly concealing of 20mm dia PVC Pipe in Brick wall / floor / wooden partition / furniture including 16SWG thick MS Junction Box, CI Circular Boxes with 3mm thick Hylam Cover ,brass screws and washers painting of JB, cutting of brick wall & mending good damages. The rate should include supplying and laying of all materials like PVC conduit, inspection boxes, modular Switch Box, 6A Plate Type modular Switch, Socket, Brass screws and any other materials to complete the wiring, making connection and testing etc, painting and mending good all the damages. **All Modular Switch, sockets will be of approved Glass Plates - Anchor Roma Clear Glass / Crabtree Murano)**				
a	LED Light Points. (from lighting DB) controlled by one switch.	12	No		
b	same as above - 2 points controlled by one switch	17	NO		
c	same as above - 3 points controlled by one switch	5	NO		
d	Wall / Ceiling /Exhaust fan points with 5A socket on wall.	5	No.		
e	6A 5pin plug switch socket on same board. - do -	15	No		
f	6A 5pin plug switch socket on separate board. - do -	10	No		
g	Call bell point with S & F bell push. - do -	1	No		
h	LED Light Points. from UPSDB	10	nos.		
i	6A 5 pin plug with switch on separate board (from UPSDB)	8	points		
5	**Power point Wiring** : Supply ,Fixing /Laying Power point concealed with 1100V grade single core 2X4 Sq.mm + 1X2.5 Sq.mm unsheathed stranded FRLS Copper Conductor in concealed 20mm dia PVC Pipe partly laid over false ceiling & partly concealing of 20mm dia PVC Pipe in Brick wall / floor / wooden partition / furniture including making good damages . The rate should include supply and laying of all materials like PVC conduit Pipe, saddles, hooks inspection boxes and any other materials to complete the wiring, making connection testing, etc. painting and mending good to damages.	200	RM		
	All Modular Switch, sockets will be of approved Glass Plates - Anchor Roma Clear Glass / Crabtree Murano)				

6	**Providing & Fixing of 16A Switch modular type** , 16/6A Socket shutter type concealed MS Switch Box , Cover etc. for raw power. **All Modular Switch, sockets will be of approved Glass Plates - Anchor Roma Clear Glass / Crabtree Murano)**	10	No		
7	**Power point Wiring for A/C** : Power point Wiring - Supply , fixing & laying Power point concealed with 1100V grade single core 2X6 Sq.mm +1X 2.5 Sq.mm unsheathed stranded FRLS Copper Conductor in 20 mm dia PVC conduit partly laid over false ceiling and partly concealed in brick wall/floor including making good damages . The rate should include supply and laying of all materials like PVC conduit Pipe inspection boxes etc. and any other materials to complete the wiring, making connection from DB and to power unit & testing , etc. painting and mending good to damages.	120	RM		
8	**Supply and fixing of power unit for A/C as per catalog no.ACPU6M FT 20 Amps** of North-West or Havells complete with starter, MCB,Plug,Socket etc. to be fixed on modular type MS Box embedded including necessary accessories. Make : North West.	8	Nos		
9	**Lighting & fan (Material & Labour)** :				
a	Supply & Fixing of Recess Mounted Indirect-Direct LED Luminaire for new age Work Space : 30 W direct- indirect 2'x2' LED fixture Panasonic or equivalent brand of Phillips / Havells / Bajaj / Syska.	8	Nos		
b	Supply & Fixing of Recess Mounted 3D printed METALIC BRONZE LED downlighter 15 W Phillips or equivalent brand of Panasonic / Havells / Bajaj / Syska.	36	Nos		
c	Supply & Fixing of Tube lights Fixing & lamps, Ballast etc for surface mounting Fixing surface mounting Luminaire designed for tube lights including S & F of ballast ,1xT5-28W tube lights, down rods etc (Phillips / Havells / Bajaj / Syska).	17	No		
d	**Wall Fan** : Providing & Fixing of Wall / Pedestal fan 400 mm sweep complete with regulator, etc., including interconnecting wiring.	5	No		
e	**Call bell** : Providing & Fixing call bell/buzzer on suitable board on wall.	1	No		
10	**Wiring from DB to UPS & from UPS to UPS DB** : Providing & laying of 2 x 6+1 x 2.5 sqmm 1100V grade PVC insulated copper wire, FRLS, (Make-Finolex/Havells) in concealed 25mm dia PVC conduit (ISI Mark) with all accessories like saddles, hooks, bends, inspection boxes etc including supply & fixing of PVC conduit over false ceiling / in slab / beam / ceiling / on wall from DB to UPS & from UPS to UPS	80	RM		
11	**Industrial Type Plug & Socket for UPS output** : Providing & Fixing on wall in concealed 16 SWG MS box with wall matching hylam cover 1no 32 A 3 pin Industrial Socket with matching plug top3 pin neutral & earth type and 1no 32A DP MCB make including necessary	4	No		

12	**UPS PANEL WITH CHANGE-OVER-SWITCH** : Providing & Fixing of concealed 16 SWG MS sheet metal enclosure of suitable size consisting of 2 nos 32A change-over-switch, including necessary interconnections.	1	No		
13	**UPS DB** : Supply & Fixing of UPS MCBSPN Distribution Board in 16SWG sheet steel enclosure, with double door, internally wired, neutral end earth busbar, and each comprising of following MCBs having short circuit level 10KA. Each MCB Distribution board shall comprise of following and including blank plates, inscription marking, phase neutral and earth bars, mounted on M.S. Frame on wall including cutting wall and mending good damages Incoming 1 No. 32A SPN MCB. 1 no DP 40A RCCB of 300ma sensitivity . Outgoing 6 Nos. 10A/16A SP MCB	1	No		
14	**Wiring from UPSDB to WORK STATION** : Providing & laying of 2x4+1x2.5sqmm 1100V grade PVC insulated copper wire, FRLS, (Make- Finolex/Havells) in concealed 20mm dia PVC conduit (ISI Mark) with all accessories like saddles, hooks, bends, inspection boxes etc including supply & fixing of PVC conduit over false ceiling/in slab/beam/ceiling/on wall/in floor/wooden partition/furniture from UPS DB to work station.	400	RM		
	(only black enamelled mild steel pipe should be used as conduit.)				
15	**Work Station** : Supply & installation of Work station comprising 1 no 16A MODULAR switch, 3 nos 6A 5 pin MODULAR socket outlet for UPS circuit on MODULAR switch board flush mounted on wall/wooden panel/furniture. (All Modular Switch, sockets will be of approved Glass Plates - Anchor Roma Clear Glass / Crabtree Murano)	9	Set		
		TOTAL		**Rs.**	
D	**Section D - Air Conditinging Work**				
1.	Supply & Installation of 2.0 TR Ceiling Mounted Cassette AC Make : LG, Hitachi, Carrier.	1	NOS		
a.	Copper Pipe with nitrile insulation for Ceiling Mounted Cassette type AC	20	R.M.		
b.	3 core armoured 6sq.mm Copper Electrical Cable for Ceiling Mounted Cassette type AC	20	R.M.		
c.	Hard PVC Drain with all fittings and insulation for Ceiling Mounted Cassette type AC	20	R.M.		
d.	MS Structure for mounting of Outdoor Units with safety railing for Ceiling Mounted Cassette type AC	1	Nos.		
		TOTAL		**Rs.**	