

**BILL OF QUANTITY OF ELECTRICAL & ALLIED WORK FOR STATE BANK OF INDIA, SME HIGHWAY ROAD
BRANCH, MEHSANA**

Sr. No.	Description	Quantity	Rate	Unit	Amount
[A]	ELECTRIFICATION WORK				
1	SITC of metallic double door type distribution board with all necessary complete to be installed concealed in wall /surface mount complete to the satisfaction of the engineer in charge ,the DB should be same make as mcb make				
[a]	4 way TPN, MCB DB for UPS. Output at f.floor	1		NO	
	Incoming				
	63 A 4 - Pole MCB				
	Outgoing				
	4 Pole RCCB 100 mA sentivity 40 A - 1 Nos.				
	10/16 Amp SP 10 ka - 9 nos.				
a)	6 - WAY TPN DB : (LDB) ,	1		NO	
	incoming : 40 A FP MCB - 1 NO				
	outgoing : 40 A DP ELCB, 100mA (3 nos)				
	outgoing : 10 to 20 A SP MCB (12 nos)				
b)	4 way TPN DB: (PDB)	1		NO	
	incoming : 63 A 4 P mcb 10 ka -1 no.				
	o/g : 63A 4P RCCB 100mA -1 No				
	16 A SP MCB (9 nos)				
	(15 A power point, , Raw Power,)				
c)	12 WAY TPN DB : (ACDB)	1		NO	
	incoming : 63 A 4 P mcb 10 ka -1 no				
	O/G : 63A DP RCCB 100mA Sensitivity-3 No				
	25 A DP MCB (13 Nos) for HI- WALL SPLIT AC				
b)	6 WAY SPN : ups output at ups room	1		NO	
	40 amp 4P MCB - 1 NOS.				
	63 amp DP MCB - 1 NOS.				
2	Supply intallation testing and commissioning of power contro,l panel cubicle type made of 16 G sheet steel painted by seven tank method and powder coated, pedestal mounting type having cable alley and switchgears under.				
	Incoming				
	1 No. 125 A FP MCCB 35 KA. 150 A copper bus bars TPN & E.				
	Indicating lamps - RYB				
	Digital Volt meter, Ammeter seprate with selector switch				
	Outgoing				
	63 A TPN MCB-G 10 KA -3No.				
	40 A TPN MCB-G 10 KA- 2 No.				
	25 amp DP RCCB 100 ma-1 No. for signage board 24 hrs. 7 days time switch with 16 amp contactor-1 nos..				
	63 A TPN MCB-G 10 KA -1No. For Big AC				
	63 A 4-pole on load Change over -1 No for lighting				
	40 A 4 P mcb - 2nos. For cassette AC / big AC				
	1 No. Dummy TPN Slot	1		NO	

Sr. No.	Description	Quantity	Rate	Unit	Amount
3.1	Supply and installation of 415 volts ,160 A SFU TPN Unit compartment with hinged & locking arrangement duly fabricated from 18 SWG sheet metal box duly painted with one coat of red oxide paint and Powder coated 7 tank process with 160 Amp open type SFU TPN UNIT with 125 A fuse with wooden back complete , This will be installed nr. Main door inside/outside of bank	1		No.	
4	Supply and installation of stranded aluminium conductor. XLPE Insulated IS approved and marked sheathed and insulated 1.1 KV grade armoured cable on wall with saddles on 20 x 3 mm M.S strips gourtred on wall, spaced one mt.				
[a]	- Do - but 3.5 x 70 Sq.mm Aluminium cable	50		RMT	
[b]	- Do - but 4 x 16 Sq.mm Aluminium cable (ALL DBS and as reqd.)	45		RMT	
[c]	- Do - but 4 x 10 Sq.mm copper cable (AC , and as reqd.).	40		RMT	
[d]	- Do - but 4 x 6 Sq.mm copper cable (UPS DB , and as reqd.).	50		RMT	
5	Cable end terminations of aluminium/copper armoured cable, with compression type cable gladns and lugs.				
[a]	- Do - but 3.5 x 70 Sq.mm Aluminium cable.	2		NO	
[b]	- Do - but 4 x 16 Sq.mm Aluminium cable (ATM and as reqd.)	8		NO	
[c]	- Do - but 4 x 10 Sq.mm Copper cable.(UPS DB and as reqd.)	4		NO	
(d)	- Do - but 4 x 6 Sq.mm Copper cable.(UPS DB and as reqd.)	4		NO	
6	Providing circuit wiring of following sizes of PVC insulated 650 V Gd. Stranded copper conductor flexible type wires in 1.5 mm thick MMS rigid PVC pipes, 25 mm/20mm dia including terminal junction box and installing pipe with saddles spaced 60 cm and making connection with lugs. FIA FRLS wires and FIA pipes ISI marked to be used.				
Note: Use Black for Neutral and Green for Earth					
[a]	3 Nos. of 6 Sq.mm PVC insualted copper wires. Including making connections for UPS Input/output Connections	12		RMT	
[b]	3 Nos. of 4.0 Sq.mm PVC insualted copper wires. Including making connections for AC outdoor connection or as reqd.	30		RMT	
[c]	35 sq.mm x 4 no. with 2.5 sq.mm x 2 no. for earth PVC Insulated copper wire including making connection from meter to switch	3		RMT	
7	Providing, installing testing and commissioning of 1.5 mm thick MMS ISI marked rigid PVC pipe for wiring, on wall, roof ceiling under floor with suitable saddles spaced 60 cm including inserting the existing hanging wires and making reconections with suitable lugs or thimbles of followiong sizes. FIA FRLS ISI marked.MMS conduits				
[a]	25 mm dia.	70		RMT	
8	Suppy and installing GI earth strip and wires and making connections with panels, switch, equipment etc.				
[a]	G. I. Wire 8 SWG in pvc rigid pipe 20/25 mm dia. From earth pit to main panel	50		RMT	
[b]	8 SWG bare copper wire in pvc rigid conduit 20/25 mm dia pipe from earth pit to ups panel	60		RMT	
c)	25 x 3 mm G.I. Strip earth pit to main panel and as reqd.	25		Rmt	

Sr. No.	Description	Quantity	Rate	Unit	Amount
9.1	JEF ECO SAFE environment friendly electrical grounding systems with T-193 -Copper , having 50 mm dia of outer pipe and 25 mm dia of inner pipe and length of 3 mtrs. With 50 kg back fill compound as per UL 476 of power fill Eco friendly electrical grounding backfill compound and clamp (UPS) -COPPER- Ashlok ETP / CUP / 48 / 3 or equivalent make (UPSI)	1		No.	
9.2	JEF ECO SAFE environment friendly electrical grounding systems with T-193 -Hot Dipped Galvanised , having 50 mm dia of outer pipe and 25 mm dia of inner pipe and length of 3 mtrs. With 50 kg back fill compound as per UL 476 of power fill Eco friendly electrical grounding backfill compound and clamp (DB- PANEL) -G.I - Ashlok ETP / HDP / 48 / 3 or equivalent make (DB-panel)	1		NO	
9.3	Providing brick masonry chamber as per IS code with M.S framed and hinged cover for earth electrode.	2		NO	
10	GENERAL POINT WIRING				
	Providing, commissioning point wiring (Light point, plug point, monitor power plug point etc.) in PVC FRLS rigid conduit pipe 1.5 mm thick (Concealed) system or on slab/wall, false ceiling running open in counter in top and bottom and partition by using 650/1100 Volt grade P.V.C insulated copper wire with I.S.I approved of 1.5 Sq.mm along with PVC insulated FRLS 1.5 Sq.mm copper earth wire for light, fan, 5A socket point and 4.0 Sq.mm (Also with 2.5 Sq.mm PVC insulated copper earthing wire) for 15 Amp point with colour code system as per I.E Rules/Regulations. All the wires to be drawn in rigid PVC conduit pipe of 1.5 mm thickness MMS 20/25/32mm dia size with all necessary accessories such as bends, Junction box etc. 18 Guage M.S switch boxes shall be used.				
	The top cover of the switch box shall be 3mm thick hylam plate type. The switch box size shall suitable to contain 5 Amp/15 Amp switches. 5/15 Amp socket outlet. M.S ready made junction boxes shall be permitted in pipe laying. All the pipes shall be fixed with G.I sadles clamps and wherever required to be embeded in wall. The point wiring shall mean the wiring from switch board to outlet box by including supply of 5/15 A SP control swich ceiling rose/lamp holder, 5A/15A socket 5/6 pin type. Modular switch, socket, plug, M.S box and plate cover to be used. FIA FRLS wires and FIA FRLS pipes, ISI marked to be used.Use Moduler MS Box for flush mounting and Moduler moulded box for surface mounting				
	The point wiring will include circuit wiring 2 x 2.5 sqmm + 1 x 1.5 sqmm for earth from MCB DB to lighting switch board and switch board to switch board. The no. of points will be limited to 8 point per circuit. No extra rate shall be paid for any circuit and subcircuit mains.				
	The wiring is to be concealed type which includes cutting of groove in wall or floor laying conduit, replastering the cut part with good finish and colouring to match the wall, floor colour. Do not use casing caping if necessary use ovel pipe on surface.				
	LIGHT POINT				
	Note : Use Black for Neutral and Green for earth.				
[a]	- Do - as per Item No. 10 for 1 Nos. of light point controlled by 1 No. of 5 Amp modular switch and plate with phase Neutral & earth wires.	24		NO	
	2LIGHT 1 CONTROL	32		NO	
	3LIGHT 1 CONTROL	1		NO	
	1 light 2 control stair case light	3		NO	
[b]	- Do - for Fan point including SP modular switch, Electronic regulator, terminal box with hood for fan suspension from roof and plastering the opining. With Anchor fastners to be used.(As reqd.)	3		NO	

Sr. No.	Description	Quantity	Rate	Unit	Amount
[c]	- Do - for wall .	16		NO	
[d]	- Do - for Exhaust fan.	4		NO	
[e]	Bell point with bell push and ding dong bell.	2		NO	
[F]	Sign board point with 3 x 2.50 sq.mm wire circuit from main panel to sign board at entrance with suitable junction box and 3 point connector. PLUG POINT	1		NO	
11[a]	- Do - as per Item No. 10 for 1 No. 5 pin 5 Amp socket controlled by 5 Amp SP switch. Both are mounted on the same Lighting switch board with necessary inter connection & earthing the earth pin.	19		NO	
11[b]	- Do - as per Item No. 10 for 1 No. 5 pin 5 Amp socket controlled by 5 Amp SP switch at conventent location with wiring by 2 x 1.5 sqmm x 1 x 1.5 sqmm for earth from lighting switch board,	3		NO	
12	Providing and fixing computer Terminal Board providing 3 No 3 pin 5 Amp plug socket outlet controlled by 1 Nos.15 Amp modular SP switches with light indicator as switch board with independent power supply from UPS unit, including internal wiring with 1.5 Sq.mm PVC copper wire. Moduler Switch, Socket Plug, Plate Cover, Box etc. complete as diercted. Including 2 x 2.5 sqmm + 1 x 1.5 sqmm earth circuit from DB for computer power. (Three boards in one circuit)(Light color outer plate)	14		NO	
,12 A	Providing and fixing computer Terminal Board providing 4 No 3 pin 5 Amp plug socket outlet controlled by 1 Nos.15 Amp modular SP switches with light indicator as switch board with independent power supply from UPS unit, including internal wiring with 1.5 Sq.mm PVC copper wire. Moduler Switch, Socket Plug, Plate Cover, Box etc. complete as diercted. Including 2 x 2.5 sqmm + 1 x 1.5 sqmm earth circuit from DB for computer power. (Three boards in one circuit)(Light color outer plate)(to use in Green channel termination table needs 4 outlets)	3		NO	
13	- Do - as per Item No. 12 for 1 No. 3 pin 5 Amp power socket outlet and 1 nos. 15 amp 5 pin power socket controlled by 1 No 15 Amp modular switch including circuit wiring. three boards in one circuit for raw power.(Dark colour outer plate	15		NO	
14	- Do - as per Item No. 12 for 1 No. 3 pin 15 Amp power socket outlet controlled by 15 Amp modular switch including circuit wiring 2 x 2.5 sqmm + 1 x 1.5 sqmm for earth from raw power DB.	3		NO	
15	SITC of 20 A/ 25 A , 230 V, with DP MCB all enclosed in a prefabricated M S boxes complete to the satisfaction of E.I.C. For SPLIT AC 1.5TR / 2.0 TR unit with necessary require wiring from ACDB of 2 no of 4.0 sqmm wires and 1 no of 2.5 sqmm PVC Insulated copper conductor wire laying in with 20 mm/25 mm dia FRLS type PVC rigid conduits 1.5 mm thick ISI mark. These will be used with point wiring of A.C. points ,etc . [This point should be installed near Split / window AC in concealed manner.] The height of switchboard must be at reachable point for easily operation. - from that point to Split AC , empty conduit + necessary bends must in concealed mode by ele. contractor.	10		NO	

Sr. No.	Description	Quantity	Rate	Unit	Amount
	Telephone wiring				
17	Supply and installation of Telephone terminal with jack socket RJ 11 connection on suitable modular junction box. Including 2 pair telephone wire in FIA rigid PVC conduit concealed in wall/floor from Krone to Telephone point, including necessary junction boxes etc. complete as directed.	15		NO	
18	Supply and installation of Krone tag block in suitable covered M.S Box installed on angle iron frame grouted on wall of size as under.				
(a)	20 Pair	2		NO	
19	Supply and installation of jelly filled Telephone cable armoured PVC insulated cable of tinned high grade electrolytic copper wires in PVC Pipe, on wall with proper saddles of following size. Delton make.				
(a)	20 Pair 0.5 mm insulated.	35		RMT	
21	Supplying and erecting 16 Guage M.S box with S.S Cover including Painting with red led. Erected concealed in Floor with necessary plastering and finishing of following Size				
[a]	225 x 225 x 40 mm depth	12		NO	
[b]	300 x 300 x 40 mm depth	3		NO	
22	Liason work for new/ increasing power load from GEB/Torrent power if required	1		L.S	
23	SITC of cable TV Cable line with proper fixing and connection with modular coaxial TV Socket	1		NO.	
TOTAL COST OF "A"				Rs.	
[B]	DATA CABELLING WORK				
1	Providing data cable information out let AT & T, lucent, D Link Brand make point connection with RJ-45 connector, junction box with cover in making connection etc complete as directed. Including 'Supply and installation of computer data cable CAT-6 of AT & T, lucent, D Link Brand make including PVC pipe 25mm dia 1.5 mm thick, recessed in counter necessary, ceiling, wall .include RJ 45 connector on both end etc complete as directed..The conduit to be concealed in wall or floor by cutting , laying conduit replastering and colouring to match the wall or floor colour	15		NO	
3	Supply and providing Cat-6 patch cord wire of AT & T, Lucent, D Link make with RJ-45 connection on both and connector (2.0 mt. Long). Factory built	15		NO	
4	- Do - as above but 1.0 mt. Long Cat-6 patch cord wires. Factory built	15		NO	
5	Supplying of 24 port Cat - 6 patch panel of 'D' Link make complete as directed.	1		NO	
6	Supplying of 9U Rack with lockable door of 'D' Link with power supply and cooling Fan or Equivalent make complete as directed.	1		NO	
7	Installation of Rack, Patch panel including patch panel connection inspection and testing and commissioning complete as directed.	1		JOB	

