	BILL OF QUANTITY OF ELECTRICAL & ALLIED WORK FOR STATE BANK OF INDIA, SME HIGHWAY RO BRANCH, MEHSANA						
r. No.	Description	Quantity	Rate	Unit	Amount		
[A]	ELECTRIFICATION WORK						
1	SITC of metalic 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) ,	4		NO			
aj	incoming :40 A FP MCB - 1 NO	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,I 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.						
	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						
	62 A 4 polo on load Change over 4 No for lighting						
	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	Quantity	ILUIG	Unit	Amount
	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 alluminium conductor.				
	XLPE Insuleted 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 gourted 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	
		10		DUT	
[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		DMT	
5	Cable end terminations of aluminium/copper armoured cable,	50		RMT	
5	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 juction 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.				
	The pipes for 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				
[a]	making connections for UPS Input/output Connections	12		RMT	
[b]	3 Nos. of 4.0 Sq.mm PVC insualted copper wires. Including	12			
r1	making connections for AC outdoor connection or as regd.	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				
	reconnections with suitable lugs or thimbles of followiong				
	sizes. FIA FRLS ISI marked.MMS conduits				
[a]	25 mm dia.	70		RMT	
ူပျ					
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	60		RMT	
	20/25 mm dia pipe from earth pit to ups panel				
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
Sr. No. 9.1	Description		Nale		AMOUNT
9.1	JEF ECO SAFE environment friendly electrical grounding systems with T-	1		No.	
	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 ccompound and clamp				
	(UPS) -COPPER- Ashlok ETP / CUP / 48 / 3 or equivalent make (UPSI)				
0.0				NO	
9.2	JEF ECO SAFE environment friendly electrical grounding systems with T-	1		NO	
	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				
	ccompound and clamp (DB- PANEL) -G.I - Ashlok ETP / HDP / 48 / 3 or				
	equivalent make (DB-panel)				
0.2	Droviding brick measurery chamber on par IS and with MS				
9.3	Providing brick masonary chamber as per IS code with M.S framed and hinged cover for earth electrode.	2		NO	
	framed and hinged cover for earth electrode.	2		NO	
10	GENERAL POINT WIRING				
10					
	Providing, commissioning point wiring (Light point, plug point,				
	monitor power plug point etc.) in PVC FRLS rigid conduit pipe				
1	1.5 mm thick (Concealed) system or on slab/wall, false ceiling				
	running open in counter in top and bottom and partition by				
1	using 650/1100 Volt grade P.V.C insulated copper wire with				
1	I.S.I approved of 1.5 Sq.mm along with PVC insulated FRLS				
1	1.5 Sq.mm copper earth wire for light, fan, 5A socket point and				
1	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				
1	points will be limited to 8 point per circuit. No extra rate				
1	shall be paid for any circuit and subcircuit mains.				
	The wiring is to be concealed type which includes cutting of				
1	groove in wall or floor laying conduit, replastering the cut part				
1	with good finish and colouring to match the wall, floor colour.				
1	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	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. <b>PLUG POINT</b>	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 <b>at conventent location</b> with wiring by 2 x 1.5 sqmm x 1 x 1.5 sqmm for earth from lighting switch board,	3		NO	
12 ,12 A	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) 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 )	14		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 necessory 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.			NO	
18	Supply and installation of Krone tag block in suitable covered M.S Box installed on angle iron frame grounted 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 concealled 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.	
		то	TAL 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 directedThe conduit to be concealed in wall or floor by cutting , laying conduit replastering and colouring to match the wall or floor colour			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.			NO	
7	Installation of Rack, Patch panel including patch panel connection inspection and testing and commissioning complete as directed.			JOB	

Sr. No.	Description	Quantity	Rate	Unit	Amount
8	SITC of CAT 6 UTP pvc insulated copper conductor data cable				
Ŭ	of D - Link with 20/25 dia ,PVC conduits with accessories duly				
	burried under floor with necessary chasing/breaking in floor				
	and to be furnished with all necessary civil material etc to be				
	cleated on wall / ceiling with saddles /spacer necessary				
	termination etc.	25		mtr.	
9	ethernet switch 24 port ( if reqd.)	1		NO	
	NOTE :				
(1)	Work is to be carried out as per code of practice confirming to				
	I.E Rules and PWD specification.				
(2)	All Electrical materials are to be of ISI marked/approved				
	makde as per list.				
(3)	Payments will be for actual quantities used.				
(4)	All holes and cuttings to be made with Electrical tools.				
(5)	Carry out wiring as per given plan.				
(6)	Deductions will be made for improper work				
		то	TAL COST OF "B"	Rs.	
	NOTE: The rates quoted shall include all taxes				
	such as VAT,Excise etc . Including transportation charges.				
	PART B				
[C]	SUPPLY & INSTALATION OF LIGHTING FIXTURE				
[0]					
1	LED 1*36 watt (2'*2') RECESS MOUNTED LUMINAIRE with				
	making earthing connection complete to be recessed in false				
	ceiling with all necessory hardwares, hanging frame				
	arrangement, chains, hook etc., complete. Integral type with				
	CRC boby 50mm deep (CROMPTON model AURA I 1 LCPL-				
	36 CDL (2X2) or ORIENT MAKE AQUA WTRAQ 36-C OR				
	WIPRO MAKE MATRIX LED 17-291-XXX-57-XX or, Philips				
	make.FULL GLOW RC380B or equivalent GE	35		NO	
2	12 W LED Downleighter to be recessed in false ceiling with all				
	necessory hardwares, chains, hook etc., complete.				
	CROMPTON model CROM LED 15-LCDD-12 CDL/WW or				
	ORIENT MAKE VENUS WDRVS 10-C or WIPRO MAKE				
	LDLM 71/101-XXX-65-XX (IRIS) or equivalent Philips or GE	45		NO	
3	Supply and instalation of LED light fixture T5 with electronic				
1	ballast and tube complete with necessory hardwares,				
	etc.(Crompton make or Equivalent Philips make or Wpro				
	Model GARNET LED TUBE BATTEN 18/20 W.	14		NO	
4	Compact Fluorescent lighter in horizontal position 1 x 11 W PL				
1	fixture Crompton TNL 11 or equivalent hHavells make				
1	decorative with 11 w tube, ballast.	4		NO	
5	Supply and installation of 400 mm sweep wall mounted fan				
5	with metal stand and guard with metal blades. With on site 2				
1	years warranty (Crompton model SDX super delux Gold or				
	SDX 120.	16		NO	
		10		011	
6	Supplying and providing heavy duty Exhuast Fan 12" dia				
0	crompton make .				
		4		NO	
		4		NU	
	Supply and instalation of 40" Optimer For with for star				
7	Supply and instalation of 48" Ceiling Fan with fan step				
1	modular regulator, Max. 3 feet Fan Rode, Anchor Fastner,				
1	etc.(WHITE COLOUR) BEE 5 star labeled ceiling fan				
1	Alluminium body and copper winding Equivalent approved				
	make in Crompton High Breeze plus or Orient PSPO	3		NO	
				1	

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Sr. No.	Description	Quantity		Rate	Unit	Amount
		ŤO	TAL	COST OF 'C'	Rs.	
	NOTE: The rates quoted shall include all taxes except GST. GST shall be paid extra.					
[A]	SUMMAR Y ELECTRIFICATION WORK				Rs.	
[~]					1.5.	
[B]	DATA CABELLING WORK				Rs.	
[C]	SUPPLY & INSTALATION OF LIGHTING FIXTURE				Rs.	
	TOTAL TENDER COST OF ( A + B + C )				Rs.	
	total					
	(SEAL & SIGNATURE OF CONTRACTOR)					

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