

BILLS OF QUANTITIES FOR ELECTRICAL, DATA & NETWORKING WORKS OF INDIAN BANK FOR LARGE CORPORATE BRANCH AT 5TH FLOOR, ANAM - 1 BUILDING, AHMEDABAD.					
PRICE BID					
Sr. No.	Description	Qty	Rate	Unit	Amount
	ELECTRICAL WORK				
1	Supply installation testing and commissioning of Elect. Power IP42 Protection distribution boards of 18 G CRCA sheet steel mounted on angle iron frame grouted on wall, complete with copper bus bars for phase neutral and earth DIN rails for MCB/ELCB and connector, terminal blocks mounting, dully wired with suitable size PVC insulated copper wire, terminations with lugs and chrome plated brass compression glands for incoming and outgoing wires and cable as under.				
[a]	SPN, MCB DB for UPS. Input Incoming 63 A 4 - Pole MCB-1 No Outgoing 2 Pole 40/63A - 3 Nos.	1		No.	
[b]	SPN MCB DB Double Door for computer. [UPS OUTPUT DB] Incoming 32 A/40A 2 Pole 100mA RCCB - 1 No. Outgoing 10 A SP MCB - 6 Nos.	2		No.	
[c]	TPN MCB DB for A. C as part of Main panel Incoming 63 A 4 Pole RCCB 100 mA sensitivity - 1 No. Outgoing 6/10/25 A SP MCB G 12 KA - 12 Nos.	1		No.	
[d]	TPN MCB DB for Lighting as part of Main panel Incoming 40 A 4 Pole RCCB 100 mA sensitivity - 1 No. Outgoing 10 A SP MCB 10 KA - 12 Nos.	1		No.	
[e]	SPN MCB DB Double Door for RAW POWER DB Incoming 32A/40A 4 Pole RCCB 100 mA sensitivity - 1 No. Outgoing 10 A SP MCB - 8 Nos.	1		No.	
[f]	SITC of 40 A , 415 V, with FP MCB all enclosed in all weather IP 65 type Prefabricated Metal Boxes complete. For Cassatte AC unit.	3		No.	
[g]	Supply an installation of 24 Hr, 7 days A/C timer with 2 nos power contactor of M.D.S, L & T ,SEIMENS,THEBEN (indoasian) Make. All enclosed in sheet steel powder coated enclosure complete with all necessary termination for ATM Room A.C 2Nos power contactor 4 pole 2 No 2 NC type	2		No.	
[h]	Supply an installation of Sign board Timer of L & T make Cat. No. 67DDTO digicom Timer with 16A. 4P contactor / Theben make Cat no. SUL 180 a - T180 0 001 ANALOGTimer with L & T make contactor MNX 12 (operating coil voltage 230V, 50 Hz). (24 hrs)- 1 No for signage light	1		No.	
2	Supply, installation, testing and commissioning of power control panel cubicle type made of 16 G sheet steel painted by seven tank method and powder coated, pedestal (Floor or Wall) mounting type having cable alley and switchgears under.	1		No.	
	Incoming 1 No. 125 A TPN SFU with 125 A HRC fuses, Siemens L&T make with front operating handle. 125 A copper bus bars TPN & E. Indicating lamps - RYB Digital Volt meter, Ammeter , Frequency (VAH meter) Load manager meter with select switch inbuilt with set of CTs control fuses Outgoing 63A 4 Pole MCB - 2 No 63 A TPN MCB-G - 1 No. 10/32 A DP MCB-L - 3 Nos. 40 A 4 - pole MCB - 3 No				

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Sr. No.	Description	Qty	Rate	Unit	Amount
3	Providing and Installing of 125 A FP MCCB with hinged door & locking arrangement duly fabricated from 18 SWG sheet metal box duly painted with one coat of red-oxide paint and two coats of approved enamel paints with Phase indicator lamps phase wise, control fuses & wooden back complete.	1		No.	
3a	Providing and installing 1 Switch Control Contactor Logic Block set with locking arrangement duly fabricated from 18 SWG sheet metal box duly painted with duly powder coated of approved paints with wooden back complete. Comprises of 95A 4pole NC type Power Contactor-1 nos, 95A Alu. bus bars TPN & E.. All Contactor coil must be operated on 230 V Ac supply type. All the power Connection to terminal block need to be provided by 25Sq mm FRLS type wire with lugging. All Contactor Aux Coil Supply need to be provided by 1.5 Sq mm FRLS type Wire. Body Earthing need to provide. (including 2c x 1.5 sq. mm. cable from contactor block to push button switch at Entrance)	1		No.	
3b	Supply and installation of Mushroom Head Key Switch Stay put (press to lock turn to release) with mounting cover at Entrance for Single switch control of Branch Supply. Location at Entrance need to ask Bank's Officer before Installation.	1		No.	
4	Supply and installation of stranded aluminum 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				
[a]	M.S strips gouted on wall, spaced one mt. - Do - but 3.5 x 50 Sq.mm Aluminum cable. [For Meter to Main Panel Board]	60		Rmt	
[b]	- Do - but 4 x 16 Sq.mm Aluminum cable. [For Main Panel To UPS DB	20		Rmt	
[c]	- Do - but 4 x 10 Sq.mm Aluminum cable.	35		Rmt	
[d]	- Do - but 4 x 6 Sq.mm Cu. Flexible cable.	35		Rmt	
[e]	- Do - but 25 Sq.mm Copper Flexible cable [For Main MCCB to Meter]	12		Rmt	
5	Cable end terminations of aluminum armoured cable, with compression type cable gladns and lugs.				
[a]	- Do - but 3.50 x 50 Sq.mm Aluminum cable.	2		No.	
[b]	- Do - but 4 x 16 Sq.mm Aluminum cable.	2		No.	
[c]	- Do - but 4 x 10 Sq.mm Aluminum cable.	2		No.	
[d]	- Do - but 4 x 6 Sq.mm Cu. Flexible cable.	2		No.	
[e]	- Do - but 25 Sq.mm Copper Flexible cable	8		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.				
[a]	2 Nos. of 6 Sq.mm and 1 No. of 2.5 Sq.mm for earth PVC	16		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 following sizes. FIA FRLS ISI marked. MMS conduits				
[a]	25 mm dia.	NIL	NIL	Rmt	NIL
8					
[a]	G. I. Wire 8 SWG	60		Rmt	
[b]	10 SWG bare copper wire. For UPS from earth electrode system.	60		Rmt	

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Sr. No.	Description	Qty	Rate	Unit	Amount
9	GENERAL POINT WIRING				
	LIGHT POINT				
	P and M point wiring in concealed in walls, furniture's & for above false ceiling, or on ceiling, on beams shall be fixed with saddles & spacers etc., with conduits taken in slab with 20 mm dia PVC Rigid conduits 1.5 mm thick ISI mark with 2 nos. of 1.5 sq. mm. phase & nutral & 1 nos. of 1.0 sq. mm. earthing with modular switch with company made flush metal box/surface PVC box etc. comp. with nec. main lines for switch board from LDB of mains of 2 nos. of 2.5 sq.mm wire and 1 no.of 1.0 sqmm pvc Insulated copper conductor wire FRLS type laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark .These will be used with point wiring of light, fan, ex. fan, callbell points, etc { Max. 3 Switchboards in one circuit - One Sp MCB }.Phase wire must be Red colour, Nutral Wire must be Black color & Green Wire for Earthing. Color code must be maintained. Tagging from Lighting DB MCB and Switch board must be done.				
[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.	50		No.	
[b]	Extension light point without control switch.(Loop Point)	20		No.	
[c]	- Do - for Fan point including SP modular switch, 5 Step hum free Electronic regulator, terminal box with hook for fan suspension from roof and plastering the opining. hooks to be used.	3		No.	
[d]	- Do - for wall fan.	13		No.	
[e]	- Do - for Exhaust fan.	1		No.	
[f]	Bell point with bell push and ding dong bell.	2		No.	
[g]	Sign board point with 2 x 2.50 sq.mm + 1 x 1.5 sqmm earth wire circuit from main panel to sing board at entrance with suitable junction box and 3 point connector.	1		No.	
10	PLUG POINT				
10[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.	18		No.	
11	Providing and fixing computer Terminal Board providing 3 No 5 pin 6 Amp plug socket outlet controlled by 1 Nos. 16 Amp modular SP switches with light indicator as switch board with independent power supply from UPS unit,[Fixing 15 A switch above Table on Side partition/Wall and 3 Nos Socket Below Table] including internal wiring with 1.5 Sq.mm PVC copper wire. Modular Switch, Socket Plug, Plate Cover, Box etc. complete as directed. Including 2 x 2.5 sqmm + 1 x 1.5 sq mm earth circuit from DB for computer power. (Three boards in one circuit)	27		No.	
12	- Do - as per Item No. 12 for 1 No. 5 pin 6 Amp power socket with modular SP switch and 1 No 16 Amp Power socket outlet controlled by 1 No 16 Amp modular switch with indicator including circuit wiring. 4 to 5 boards in one circuit for raw power.	22		No.	
12[a]	Additional cost for SITC of the 8 Modular POP UP Box with required accessories of Legrand or equivalent make as per approved make etc complete as directed on Conference Table	2		No.	
13	- Do - as per Item No. 12 for 1 No. 3 pin 15 Amp power socket outlet controlled by 15 Amp modular switch with indicator including circuit wiring 2 x 2.5 sqmm + 1 x 1.5 sqmm for earth from TPN DB.	4		No.	
14	SITC of 20 A/ 25 A , 230 V, with SP MCB all enclosed in a prefabricated M S boxes complete to the satisfaction of E.I.C. For CASSATTE IDU AC 1.00/1.50/2.0TR / 3.0 TR unit with necessary	7		No.	
15[a]	S & L AC Point 3C x 2.50 sq mm Flexible PVC Insulated copper conductor cable laying in with 20mm/25mm dia PVC rigid conduits 1.50 mm thick ISI Mark from AC DB to Indoor Cassette unit (FOR CASSATTE UNIT)	1		No.	

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Sr. No.	Description	Qty	Rate	Unit	Amount
16	FIXING OF FIXTURES				
[a]	LED 2'-0"x2'-0" Fixture	22		No.	
[b]	LED Down Lighter	37		No.	
[c]	LED Batten Light Fitting (4' or 2')	9		No.	
[d]	LED Strip Light	30		Mtr.	
[e]	Ceiling fan	3		No.	
[f]	Wall fan	13		No.	
[g]	Ex.fan	1		No.	
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. Make connection in krone box.	22		No.	
17[a]	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]	30 Pair	1		No.	
18	Supply and installation of 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.	20		Mtr.	
19	Supply and installation of HDMI cable as required	30		Mtr.	
20	SITC of CABLE TV RG - 6 cable line in PVC Conduit pipe with proper fixing and connecting with modular Co-Axial TV Socket	60		Mtr.	
21	Supply and installation of 6" dia speaker 8 to 10 W on ceiling including music wire circuit 2.0 x 1.0 sqmm copper wire in FIA rigid PVC 1.5 mm thick MMS conduit. 3 to 4 speaker per circuit.	13		No.	
22	SITC of 120 Watt PA system with control desk comprising 1 nos. of microphone with press to talk switch and stand (Ahuja Make PRO-3200), selector switch, mixing amplifier 120 -130 watt(AHUJA Make SSB-120 DP), Digital player: MP3 player with USB Reader & Remote control cables with sockets, interconnections, earthing complete as required. Make: Ahuja/Boss	1		No.	
TOTAL COST OF "A"				Rs.	
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 make 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				
(7)	Cost of floor junction Boxes is included in respective items No separate payment shall be made for this.				
[B] SUPPLYING OF LIGHTING FIXTURES					
1	Supplying and providing 'LED 1*36 watt (2*2') RECESS MOUNTED LUMINAIRE with making earthing connection complete to be recessed in false ceiling with all necessary hardwares, hanging frame arrangement, chains, B77 hook etc., complete. (with minimum -03- Years warranty)	22		No.	
2	Supplying and providing of 6"/9" dia. of 12 W LED Downlighter to be recessed in false ceiling with all necessary hardware, chains, hook etc., complete. (with minimum -03- Years warranty)	37		No.	
3	Supplying and providing of 18/20 W LED tube light 4 Ft. long with white diffuser cover batten type, 230 V, 50 Hz duly wired and tested. (with minimum -03- Years warranty)	6		No.	
3a	Supplying and providing of 9/10 W LED tube light 2 Ft. long with white diffuser cover batten type, 230 V, 50 Hz duly wired and tested. (with minimum -03- Years warranty)	3		No.	

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Sr. No.	Description	Qty	Rate	Unit	Amount
4	Supplying and providing of LED Strip light with reqd. driver	30		Mtr.	
5	Supplying and providing of 65 watt of 900/1200 mm Ceiling Fan with double ball bearing, fan step modular regulator, Max. 3 feet Fan Rode, Anchor Fastener, etc. (White Colour) (with minimum -01- Years warranty)	3		No.	
6	Supplying and providing of 300 mm Exhaust fan, fresh air ventilator type with louver complete & 6 Amp. 3 pin TOP, double ball bearing etc. [Wooden mounting frame should be fixed in coordination with carpenter - furniture contractor] (with minimum -01- Years warranty)	1		No.	
7	Supplying and providing of 16" dia. Wall Fans Fitting	13		No.	
	TOTAL COST OF "B"			Rs.	
[C] DATA CABELLING WORK					
1	Providing data cable information out let AT & T, lucent, D Link Brand, Molex 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, Molex 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 coloring to match the wall or floor color	32		No.	
2	Supply and providing Cat-6 patch cord wire of AT & T, Lucent, D Link, Molex Make with RJ-45 connection on both and connector (2.0 mt. Long). Factory built	32		No.	
3	- Do - as above but 1.0 mt. Factory built	32		No.	
4	Supplying of 24 port Cat - 6 complete as directed.	2		No.	
5	Supplying of 12U Rack with Pedestal & lockable door of 'D' Link or Equivalent make complete as directed.	1		No.	
6	Supply and installation of computer data cable CAT-6 of AT & T, lucent, D Link Brand, Molex 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 coloring to match the wall or floor color	40		Rmt	
7	Installation of Rack, Patch panel, 24 port switch including patch panel connection inspection and testing and commissioning complete as directed.	1		Job	
	TOTAL COST OF "C"			Rs.	
TOTAL COST SUMMARY					
[A]	ELECTRIFICATION WORK				
[B]	SUPPLYING OF LIGHTING FIXTURES				
[C]	DATA CABELLING WORK				
	TOTAL COST OF ELECTRICAL WORK [A + B + C]				

Tender Amount(In Words) Rupees:

(SIGNATURE OF TENDERER/FIRM)

NAME OF TENDERER

(SEAL OF FIRM)

PLACE:

DATE: