

**BILLS OF QUANTITIES FOR PROPOSED ELECTRICAL WORK OF STATE BANK OF INDIA FOR VATVA BRANCH
AT GROUND FLOOR, AHMEDABAD**

PRICE BID

Sr. No./ Code	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
	NOTE : ALL CHIPPING AND FINISHING WORKS IN WALLS / COLUMNS / SLABS MADE BY THE ELECTRICAL CONTRACTOR FOR INSTALLATION OF CONDUITS / S.B. / BOXES ETC. THE FILLING OF THE SAME IS IN THE SCOPE OF THE ELECTRICAL CONTRACTOR INCLUDING ALL NECESSITY MATERIAL AND LABOUR.				
A	INTERNAL WIRING :				
1	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 FRLS type 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/ PDB MCB and Switch board must be done. (Here Electrical supply for Pantry/Toliet/ record Room/Stationary Room/ UP				
a)	One 5A switch controlling one light point	8	No		
d)	One 5A switch controlling one CEILING fan point with step regulator (This need to be given from PDB)	4	No		
e)	5A socket outlet with 5A switch (on common board)	5	No		
f)	5A socket outlet with 5A SP switch (as an independent point) [for ex. Fan,for Wall fan] (This need to be given from PDB) This need to be given at 6.5 feet height from Floor Level.	5	No		
h)	Loop Light Points From Main Panel Timer Supply to Down Lighter In Signage Board and Signage Board. 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 FRLS type PVC rigid conduits 1.5 mm thick ISI mark .	2	No		
2	SITC of 6/16 Amp. Switch and socket complete with necessary require wiring from PDB of 2 no of 2.5 sqmm wires and 1 no of 1.5 sqmm PVC Insulated copper conductor wire laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark. These will be used as Lighting Supply to Locker Room, Cash Room, Store Room .In Pantry Area,Water Cololer, Water Pump Points etc. Separate Circuit Need to be provided From PDB.	2	No		

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6	Providing, Installing, testing, Commissioning of mains of following sizes PVC insulated copper conductor multistranded flexible type wires with 20 mm/25 mm dia PVC rigid conduits or flexible pipe 1.5 mm thick ISI mark with 2 no of 6.0 sqmm wire and 1 no of 4.0 sqmm PVC Insulated copper conductor wire.(UPS to UPS O/P DB & UPS I/P DB to UPS).	12	Rmt		
B	LIGHTING FIXTURES :				
	(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULTANTS BEFORE ORDERING THEM.				
1	supply, installation, testing and commissioning (including supply and fixing flexible wires from holder to fixtures hardwares etc.) Here Led fitting & LED Driver both must be of same make only..... - The marking & cutting of fixtures should be in ele. contractor's scope..				
a)	36 W LED, Lighting fixture panel suitable for 2'x2' (600mm X 600 mm) Grid/ Gypsum/ POP / Armstrong false ceiling of Crompton Model ORION II Cat Ref No: LCTLRN-36-FO-CDL, CCT 6000 K and CRI > 80, lumen O/P > 3300 lumen, System wattage (LED + Driver) < 40 Watt. or equivalent Philips or Wipro/Bajaj/C&S/ Orient/ Syska make with minimum 2 years warranty Should be clamp with hook in ceiling, and should be connected to supply wire with PVC connector. Earthing connection with lugging need to given to body of Fixture.	5	No		
b)	15 W LED Downlighter & Crompton Model CROM LCDD-15-CDL/TL/ WW ,CCT 6000 K and CRI > 80,Lumen output1450 lumen, System wattage(LED + Driver) 15 Watt, or equivalent Philips or Wipro/Bajaj/C&S/ Orient/ Syska make. Energy Efficient round recessed mounted LED down lighter with premium white powder coating and die cast aluminium housing, as per details above, with minimum 2 years warranty.should be connected to supply wire with PVC connector. Earthing connection with lugging need to given to body of Fixture.	5	No		
c)	LED tube light surface mounting type with tube, 1 x 7 Watt, complete Crompton Model : LINNET; CAT Ref No: LCL-07-CDL or equivalent Philips or Wipro/Bajaj/C&S/ Orient/ Syska make .	2	No		
d)	Supply and installation of Call bell with Indicator. (Max or equivalent make)	1	No		
e)	Supply and installation of Exhaust fan of 300 mm, metal body fresh air ventilator type with 6 Amp. 3 pin TOP. Exhaust fan should be fixed on proper thickness wooden frame with rubber pads to avoid vibration. (Crompton/ Khaitan, havells, Usha, Bajaj make) [Wooden mounting frame should be fixed in coordination with carpenter - furniture contractor.]	1	No		

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g)	Supply and instalation of 18 / 20W led batten light fixture (T-5) with electronic driver and tube complete with necessary hardwares, etc and 6000K per watt lumens output must be above 90 lumen/watt and 90%lumems maintaiance for 90% of life with input voltage 90-270v ac 50hz operational without affecting the life, input mov.gtd protection in driver for above 270v protection. <u>and 2 years warranty.LED Batten Comprises of Thermally conductive material. Pre-wired with high efficiency electronic driver. High translucent frosted diffuser gets glare free, smooth light distribution</u>	5	No		
h)	Supply and installation of 450 mm sweep wall mounted fan with metal body, stand, blade and housing guard. With on site 2 years warranty. (Almonard tempest mark II or equivalent make.) Wall fan with PVC body strictly rejected.	11	No		
C	COMPUTER POWER SUPPLY SYSTEM.:				
1	SITC of 2 nos. of 6 A, 5 pin Sockets and 1 no. of 6 \ 16 A socket below table outlets with one 16 A switche with indicator Computer power supply with concealed company made metallic boxes or PVC flush box on walls / furniture's / trunking etc complete all respect with necessary wiring of mains of 2 no of 2.5 sq mm and 1 no of 1.5 sqmm pvc insulated copper conductor multi-stranded flexible wire with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. complete from UPSDB to Computer power supply boards.{Maxi. 3 computers in one circuit}. complete with necessary termination etc. complete.[White Colour Outer Plate For These Switchboards].LOOP POINTS MUST BE OF SAME SIZED WIRES. Phase wire must be Red colour, Nutral Wire must be Black color & Green Wire for Earthing. Color code must be maintained. Tagging from UPS O/P DB MCB and Switch board must be done.	10	Nos		
3	S & l of 2 nos. of 6 A, 5 pin Sockets and 1 no. of with one 6 A switches raw power supply with concealed company made metallic boxes or PVC flush box on walls / furniture's / trunking etc complete all respect with necessary wiring of mains of 2 no of 2.5 sq mm and 1 no of 1.5 sqmm pvc insulated copper conductor multi-stranded flexible wire with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. complete from PDB to Computer power supply boards.{Maxi. 3 Raw Power Points in one circuit}. complete with necessary termination etc. complete.. <u>[Black Colour Outer Plate For These Switchboards].LOOP POINTS MUST BE OF SAME SIZED WIRES. Phase wire must be Red colour, Nutral Wire must be Black color & Green Wire for Earthing. Color code must be maintained. Tagging from UPS O/P DB MCB and Switch board must be done.</u>	10	No		

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D	DISTRIBUTION BOARD AND PANELS :				
1	Supply, installing, testing and commissioning of metallic double door type distribution board with all necessary connection complete to be installed concealed in wall / surface mount complete to the satisfaction of the Engineer in charge. The DB should be of same make as MCB make. Vertical Type for cable connections				
b)	12 WAY SPN DB: (PDB) Near main Panel	1	No		
	incoming : 40A FP,100mA RCCB -1 NO				
	outgoing : 6 to 10A SP MCB (8nos)				
	All MCB must be C Type Characteristic				
f)	12 WAY SPN DB : (UPS O/P DB) OUTPUT Making connections of circuits	1	No		
	In Coming: 32 A,100mA DP ELCB -1 Nos.				
	Outgoing: 10 to 20 A SP MCB -10 Nos.				
g)	12 WAY SPN DB : (UPS I/P DB) Connection to UPS/ Inverter at UPS room.	1	No		
	In Coming: 40 A FP MCB -1 Nos.				
	Outgoing: 32A DP MCB -4 Nos.				
	Above existing DB'S Shifting From Existing Premises to New premisses. Include Transportation Charges also. No Charges Will Be paid Extra				
2	Supply, installation, testing and commissioning of Main panels as per drawing and specifications. Panel should be dust and vermin proof. Panel shall be fabricated from 14/ 16 SWG CRCA sheet metal duly powder coated of approved paints. Making connection to existing supply or load lines. Seperate cable alley fro cable termination & 25 mm X 6mm GI Earthing busbar routed through in side pannel bottom.				
3	Providing and Installing of 250A MCCB(1 No.) as Incoming. And one num,bers of 125 AmpsMCCB each for G. Floor. MCCB with Overload & Earth fault tripping mechanisam. 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 enamell paints with Phase indicator lamps phase wise , control fuses & wooden back complete.The MCCB should be Microprocessor based control with inbuilt earth fault protection. THIS WILL BE INSTALLED NEAR MAIN DOOR - INSIDE OR OUTSIDE - OF THE BANK. (first ask to BM / Consultant / Architect / Bank Authority.	1	No		
E	EARTHING SYSTEM:				
1	Providing and making Earthing Pit with all necessary mattrerial and making masonry kundi, watering arrangment etc complete as per ISI 3043-1987 (FOLLOWING ITEMS MAY OPERATE)				

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a)	JEF Eco safe T-193 Hot DP galvanised with 50 mm dia outer & 25 mm inner dia P/P length 3 meters. Earthing chemical filling 2 Bags of 20KG each (Chemical GI Earthing) ETP MAKE or ASHLOK MAKE With 3 years Manufacturer warranty. Any other make will not be consider. 3 years Manufacturer Warranty. Earthing Certificate, Need to Attached). <u>(At the Time of buried of earthing Photograph must be taken Without Photographic Proof Earthing Will be Rejected. Earthing Road Photo Must be attached with Bill.)</u>	1	No		
b)	Safe erthing electrode certified for use upto 11kv with 3.00 m pipe back filling comound 2 bag of 25 Kg. with outer pipe 50mm dia and inner 25 mm dia pipe and compund filling as per UL 476 as approved by PWD (Chemical Copper Earthing) ETP MAKE or ASHLOK MAKE With 3 years Manufacturer warranty.Any other make will not be consider. 3 years Manufacturer Warranty. Earthing Certificate Need to Attached). <u>(At the Time of buried of earthing Photograph must be taken Without Photographic Proof Earthing Will be Rejected. Earthing Road Photo Must be attached with Bill.)</u>	1	No		
2	Supply, laying and jointing of following wire / strip / earth cable on walls, ceiling etc. With necessary non rusting clamps, washers, nuts and bolts etc complete				
a)	8 SWG G.I. Wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete for ELE. PANEL, ALL DBS , ETC.	35	Rmt		
b)	8 SWG CU. Wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete	35	Rmt		
F	CABLES & CABLE TERMINATIONS:				
1	Supply, Lying, installation, testing and commissionig of following sizes of PVC insulated PVC sheathed copper / aluminum conductor armoured cable to be laying in existing cable trench or to be laid in existing pipes of with necessary clamps, spacers with cleating on wall ceilling etc. complete to the satisfaction of EIC. All types of cable excavation works should be in contractor's scope.(LENTH TO BE VERIFY AT SITE) with Complete termination & Metal Glanding				
c)	4 x 6 sq. mm Cu. Armoured Conductor YWY cable. (Main Panel to Input UPS DB & PDB)	30	Rmt		
g)	3.5 CX50 sq mm YWY Al cabel from main MCCB to Main Panel.	40	Rmt		

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Sr. No./ Code	DESCRIPTION	QTY.	UNIT	RATE	AMOUNT
G	TELEPHONE AND STRUCTURED CABLING :				
1	Supply and installing telephone point with Telephone socket outlets of RJ 11 of approved make with company made concealed boxes in walls / furniture's etc. complete with Providing, installing, testing, commissioning of 2 pair of 0.51 cross section pvc insulated copper conductor telephone wire of ITI approved with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. complete.from kroone box to table tele. points, etc. complete. <u>Cross Ferruling need to be provided for each point. on Telephone point tagging must be done.</u>				
a)	for Intercom Tele. facility.	10	No		
b)	for Fax Tele. facility.	1	No		
c)	for Direct Tele. facility.	1	No		
2[A]	Supply, installation, testing and commissioning of 2 nos.10 pair krone telephone tag block duly enclosed in sheet meral powder coated box with locking arrangement complete with necessary terminations	2	No		
3[A]	Supply, installation, testing and commissioning of CAT 6, RJ 45 information outlet (I/O) of D-link mke with front modular cover plate, flush box metallic or PVC for trucking system etc. complete with terminations etc complet with Providing, installing, testing, commissioning of CAT 6 UTP pvc insulated copper conductor data cable of D-link make with 20/25 dia. PVC conduits with accessories duly burried under floor with necessary chasing / breaking in floor and to be refinished with all necessary civil material etc. or to be cleated on wall / ceiling with saddles / spacer etc. necessary termination etc. with ferrule numbering at both ends of each of piece of cable etc. complete as per the requirement from metal rack to table I / O points complete. (<u>one for LCD) One for IP phone facility in BM cabin. Dual RJ45 I/O point in Single plate not allowed. Cross Ferruling need to be provided for each point. on Data point tagging must be done.</u>	10	No		
3[B]	Supply and crimping of RJ 45 connector with proper testing.	20	No		
3[C]	Supply & fixing the Patch cord 1 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	5	No		
3[D]	Supply & fixing the Patch cord 2 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	5	No		
4[a]	Supply, installation, testing and commissioning of 24 port Cat - 6 patch panel of 'D' Link make complete as directed.	1	No		
5	SITC of CABLE TV RG - 6 cable line in PVC Conduit pipe with proper fixing and connecting with modular Co-Axial TV Socket	30	Rmt		
8	Supply and installation of 1.5 sq. mm. 3 core flexible cable of approved make (4 mtr. Length) with M. S. flexible pipe & 15 amp. 3 pin top of approved make for the supply of locker room.	1	No		

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9	Laisioning work (addition Load) Electrical Supply authority Apporoval /Meter Shifting and Neccessary cirtificate.	1	Job		
10	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 BM before Installation.	1	No		
11	Providing temparaly wiring in area which will be redesigned & Providing Necessary plug points & light points for tube lights (including nessary wiring) at various locations as required by various contractors for execution of various works / to run equipments such as drill / cutter etc. during the entire execution process. The accessaories used for this purpose shall be of temp. nature (anchor piano or eq.) & the contractor has to take back the same on completion of the project. The supply for this shall be taken from the temporary connection provided at / from nearby general meter under co.ordintion with the LANDLORD. & also providing temporary power supply for computers and data connection for computers with wiring, switchboard, Comp. I/O Points,etc. for smoothly running of the branch with removing & reshifting of the computers , printers, etc. bank hardware accessories.	1	Job		
12	Removing and Refixing of existing UPS/R Power/Telephone & Data I/O Board				
[a]	Removing Refing and reconnection of the existing UPS Power Terminal board with nessary new circuit wiring in table etc complete.	10	NO		
[b]	Removing Refing and reconnection of the existing Raw Power Terminal board with nessary new circuit wiring in table etc complete.	10	NO		
[c]	Removing Refing and reconnection of the existing Telephone Terminal board with nessary material in table etc complete.	10	NO		
[d]	Removing Refing and reconnection of the existing Data cable information out let I/O with nessary material in table etc complete.	10	NO		
	<u>TOTAL TENDER AMOUNT</u>				-

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Note:					
1	ALL RATES SHOULD BE INCLUDE OF ALL TAXES (EXCLUDING GST) GST will be paid extra as per Aplicable Norms				
2	THE CONTRACTOR SHOULD DEPUTE ONE PERSON AT SITE FROM START OF WORK TO FINISH FOR GIVING TEMPORARY CONNECTIONS & ATTENDING PROBLEMS				
3	THE CONTRACTOR SHOULD WORK ACCORDING TO THE FINAL LAYOUT.				
4	THE CONTRACTOR'S PRESENCE MUST BE COMPULSORY FOR SHIFTING / INSTALLING OF UPS , DATA RACK, EPABX SYSTEMS. - MUST HELP TO BANK'S VENDORS LIKE PCS (HARDWARE), UPS , DATACRAFT (PORT SWITCH - SOFTWARE), ETC.				

(SIGNATURE OF TENDERER/FIRM)

NAME OF TENDERER

(SEAL OF FIRM)

PLACE:

DATE: