

PRICE BID OF ELECTRICAL WORK of SBI HLST BRANCH/DEPARTMENT, ground floor, AMBAWADI AHMEDABAD					
Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
	NOTE : ALL CHARIS OR CHASES 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.				
	PART - A ::: BRANCH				
A	INTERNAL WIRING : Phase wire must be Red colour for LDB, Yellow colour for PDB & Blue for ACDB, Neutral Wire of Black colour & Green Wire for Earthing. Color code must be maintained. Tagging from DB MCB and Switch board must be done.				
1	SITC of 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.				
1.1	One 5A switch controlling one light / fan point.	29	nos		
1.2	One switch controlling Two light points .	17	nos		
1.4	5A socket outlet with 5A switch (on common board) (1 FOR WATER COOLER).	17	nos		
1.5	5A socket outlet with 5A SP switch (as an independent point) [for ex. Fan, wall fan , QMS, Token M/C Display, etc. points.]	14	nos		
1.6	Call bell point with bell push complete.	2	nos		
2	SITC of 6/16 Amp. Switch and socket complete with necessary require wiring from PDB of 2 no of 4.0 sq mm wires and 1 no of 2.5 sq mm PVC Insulated copper conductor earth wire 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 power points ,etc. . No Looping of Neutral or earthing is allowed. Each point needs to provide seperate circuit.This Points Need to Be Connected through PDB. (For Printer, Water Cooler, Freeze, Motor, Note Counting Machine points).	2	nos		
3	SITC of 20 A/ 25 A , 230 V, with DP RCCB, 100 mA 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 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 A.C. points ,etc . Color code must be maintained. Tagging from DP MCB and AC point must be done. This point should be installed near Split / window AC in concealed manner. No Looping of Neutral or earthing is allowed. Each point needs to provide seperate circuit. 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. THE ENCLOSURE SHOULD BE SAME MAKE AS MCB MAKE.	2	nos		

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B	LIGHTING FIXTURES :				
	(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULTANTS BEFORE ORDERING THEM.				
4	SITC of (including supply and fixing flexible wires from holder to fixtures hardwares etc.) of.... - The LED lamps should be of same make as fixture make. - The marking & cutting of fixtures should be in ele. contractor's scope.. fixtures should be approved by bank's ele. engineer/ ele. consultant/ architect. from the given make list before installations. LM 79 & LM 80 test reports to be submitted. nichia / Lumileds / cree - LED should be used by manufacture. Lighting Luminaire of LED for Office single piece die cast aluminium M24 housing complete with driver unit, mirror optic and other accessories Lamps of about 100 lumen/W injection moulded PC diffusers with high brightness complete unit complying with international standard (LU49, LH801) - operative on 190V - 270 V 50 Hz with Mini 3 years warranty complete with mounting system and lamp fully wired and tested Details as under.				
4.1	SITC of LED 1 x 36 W (3100 lumens) (2' X 2') RECESS MOUNTED LUMINAIRE with 2KV surge protection, making earthing connection complete to be recessed in false ceiling with all necessary hardwares, hanging - die cast frame arrangement, chains or hook arrangement with ceiling, connected to supply wire with PVC connector. Earthing connection with lugging need to given to body of Fixture, etc. complete. (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 in GE/ Philips / Havells / Wipro make) .	25	nos		
4.2	SITC of 1 x 15 W Square / Round LED DOWN LIGHT pressure die cast fixture with 2KV surge protection (950 lumens) to be recessed in false ceiling with all necessary hardwares, chains, hook etc. complete.(CROMPTON make cat no. Crompton Model CROM LCDD-15-CDL/TL/ WW ,CCT 6000 K and CRI > 80,Lumen output1450 lumen, System wattage(LED + Driver) 12 Watt or Equivalent in GE / Philips / Havells / Wipro make). Energy Efficient round recessed mounted LED down lighter with premium white powder coating and die cast aluminium housing. as per details above. Die casting material should not be CRCO type material. should be connected to supply wire with PVC connector. Earthing connection with lugging need to given to body of Fixture.	31	nos		
4.3	SITC of LED tube light 1 x10 W (560 lumens) Surface mounting type with LED tube, complete. (Crompton Model : LINNET; CAT Ref No: LCL-07-CDL or Equivalent PHILIPS / GE / Wipro cat no. D531065 make) . For Toilet area.	2	nos		
4.4	Supply and installation of Call bell with Indicator. (Max or equivalent make)	2	nos		
4.5	SITC of Exhaust fan of 300 mm, fresh air ventilator type complete & 6 Amp. 3 pin TOP. (Crompton/ Khaitan / Havells make) [Wooden mounting frame should be fixed in coordination with carpenter - furniture contractor.] - Two Ex. Fan are of heavy duty industrial for Ups room.	3	nos		

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4.7	SITC of 1 x 20 W led batten light fixture (T-5) with electronic driver and tube complete with necessary hardwares, etc and per watt lumens output must be above 120/watt and 90%lumens maintainance 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. 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. (Crompton / GE/ Philips / Havells / Wipro cat no. D552065 make) .	5	nos		

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C	COMPUTER POWER SUPPLY & NETWORKING - TELE. SYSTEM.: Phase wire must be Yellow colour for UPS O/P DB, Red colour for PDB , Neutral Wire of Black colour & Green Wire for Earthing. Color code must be maintained. Tagging from DB MCB and Switch board must be done.				
5	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.	21	nos		
6	SITC 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.. [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 PDB MCB and Switch board must be done. .	19	nos		
7	SITC of CAT 6 UTP pvc insulated copper conductor data cable of D - Link 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 piece of cable complete. [2 Lines from building server rack to data rack - wing B & 2 lines from data rack to tele. krone box.].	100	mtr		
8	SITC 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 complete.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 data rack to I/O points below tables. etc. (One for LCD & Two for ATM & one for IP phone in BM cabin). Dual jack plate will not be allowed. Cross Ferruling need to be provided for each point. on Data point tagging must be done).	20	nos		

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9	SITC of 9 U metal rack for computer clamping switch etc complete with Tray Mounting Fan + power supply board. Bank's hardware - port switch / patch panel must be installed by ele. Contractor in this rack. - (make : D Link / Digi Link / Elixer).	1	nos		
10	SITC of 24 port patch panel for computers mounting in metal rack. (make : D Link / Digi Link).	1	nos		
11	Supply & fixing the Patch cord 1 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	20	nos		
12	Supply & fixing the Patch cord 2 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	18	nos		
13	SITC of telephone point with Telephone socket outlets of RJ 11 of aapproved 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 krone box to tele. RJ - 11 sockets below tables. etc.- for Intercom / fax / direct Tele. facility. Cross Ferruling need to be provided for each point. on Telephone point tagging must be done.	20	nos		
14	SITC of 30 pair krone telephone tag block duly enclosed in sheet metal powder coated box with locking arrangement complete with necessary terminations.	1	nos		
D	DISTRIBUTION BOARD AND PANELS :				
15	SITC 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.				
15.1	4 - WAY TPN DB : (PPI DB : LDB - 1 B) . All MCB should be ' B ' type.	1	nos		
	incoming : 40 A FP MCB - 1 NO.				
	outgoing : 25 A DP ELCB, 100 mA - 3 NO .				
	outgoing : 6 to 20 A SP MCB (6 nos).				
15.3	6 - WAY TPN DB : (PPI DB : PDB - B) . All MCB should be ' C ' type.	1	nos		
	incoming : 63 A FP MCB - 1 NO .				
	outgoing : 40 A DP ELCB, 100 mA - 3 NO .				
	outgoing : 10 to 20 A SP MCB (7 nos) for raw power points.				
	outgoing : 10 to 20 A SP MCB (2 nos) for 6/16 A power point .				
15.4	8 - WAY TPN DB : (ACDB - B) . All MCB should be ' C ' type.	1	nos		
	incoming : 63 A FP MCB - 1 NO .				
	outgoing : 25 A / 40 A FP ELCB, 100 mA - 4 NO for 3 phase cassette AC units.				
	outgoing : 20 A / 25 A DP MCB (2 nos) for HI- WALL SPLIT AC points.				
15.5	8 WAY SPN DB : UPS DB B - OUTPUT - branch . - All MCBs must be C Type Characteristic.	1	nos		
	incoming : 63 A DP 100 mA ELCB.				
	outgoing : 10 to 20 A SP MCB (6 nos).				

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15.6	4 WAY SPN DB . (For essential ups points - UPS O/P DB.) - branch.	1	nos		
	outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.				
	outgoing : 10 A / 20 A. SP MCB - 2 NO FOR essential ups points - DATA RACK / FIRE PANEL / CCTV NVR PTS.				
15.7	8 WAY SPN DB . (For UPS O/P DB IN UPS ROOM).	1	nos		
	outgoing : 63 A. DP MCB - 1 NO FOR UPS OUTPUT.				
	outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.				
15.8	UPS INPUT - 6 WAY SPN DB (For all computers) . - All MCBs must be C Type Characteristic.	1	nos		
	incoming : 63 A FP MCB - 1 NO FOR 3 - phase UPS.(big) .				
	Outgoing : 25 A DP MCB 1 Nos. for 1-phase UPS input				
	Outgoing : 10 A SP MCB -1 No for UPS room lighting				
16	SITC of 25 A / 40 A FP MCB (C - Curve) with powder coated compny made metallic double door sheet stell enclosure complete for three phase 3.0 TR CASSETTE AC units. This will be executed near trap door of indoor unit at reachable height. (as per IP 65 protection). THE ENCLOSURE SHOULD BE SAME MAKE AS MCB MAKE.	4	nos		
17	SITC of 125A FP MCCB- C&S Make CSE1N125ETM4P-125A (36KA) (1 No.) with (Ics =100% Icu., confirmed to IS / IEC 60947 -2 adujstable Ir rating from 0.7 to 1) Unit M. S. compartment enclosure IP65 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 enamell paints with 125A OPEN TYPE FP MCCB UNIT with extended cu busbars & with Phase indicator lamps phase wise , control fuses & wooden back complete. THIS WILL BE INSTALLED in gf ele. room. (first ask to BM / Consultant / Architect / Bank Authority.	1	nos		
18	SITC 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. Panel should be as per the sepecifications of ERDA/CPRI. fabrication, Switch gear installation. Internal wiring and Test Certificate from Manufacturer to be submitted. - All MCBs must be C Type Characteristic. Panel Drawing Need to be approved by Electrical Consultanat / Bank's Engineer before starting work. READ SLD CAREFULLY.				
	MAIN PANEL B : LDB, PDB, UPS DB / separate ACDB feeder.	1	nos		
	Incoming feeder : 100 A C&S Make CSE1N100ETM4P-100A (1 No.). The MCCB should have inbuilt Earth Fault & Nutral Overload Protection with Power Supply & Display Module for Metering & Fault Recording.				
	Incoming feeder : 80 A C&S Make CSE1N80ETM4P-80A (1 No.). REGULAR POWER.				
	Incoming feeder : 80 A C&S Make CSE1N80ETM4P-80A (1 No.). - ESSENTIAL POWER.				
	* SEPARATE COMARTMENT FOR ACDB B.				
	* 160 AMP. 500 Volts, 3 phase 50 Hz FP Alu. bus bars of suitable length -Current ratio shall be 1 sq mm = 1.2 A.				
	* 100 AMP. 500 Volts, 3 phase 50 Hz FP Alu. bus bars of suitable length -Current ratio shall be 1 sq mm = 1.2 A.				
	* Digital AVF Meter with control fuses. C.T. shall be of 15VA class 1 type and shall be resin cast type.				
	* Phase indicator lamps phase wise.				

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	* Outgoing feeder: * Timer of L & T make Cat. No. 67DDTO digicom Timer with 16A. 4P contactor / Theben make Cat no. SUL 180 a - T180 0 001 ANALOG Timer with L & T make contactor MNX 18 (operating coil voltage 230V, 50 Hz). (24 hrs).- 1 No for signage light. * 25 A DP MCB (1 no - Sign board for branch). * 40 A FP MCB (1 NO - LDB). * 63 A FP MCB (1 NO - PDB). * 63 A FP MCB (1 NO - UPSDB). * 40 A FP MCB (2 NO - SPARE DB).				
E	EARTHING SYSTEM:				
19	SITC of Earthing Pit with all necessary material and making masonry kundi, watering arrangment etc complete as per ISI 3043-1987 (FOLLOWING ITEMS MAY OPERATE). Resistivity as per IEC / IS. (3 years Manufacturer Warranty. Earthing Certificate Need to Attached). (At the Time of buried of earthing Photograph must be taken Without Photographic Proof Earthing Will be Rejected. Earthing Rod Photo Must be attached with Bill.). Earthing need to measure at Site and it should be less than 5 Ohm. If found more than 5 ohm than will be rejected. Earthing Pit Must be Provided for both Cu as well as GI earthpit.				
19.1	ECO SAFE environment friendly electrical grounding system with T-193- Copper electrode used upto 11 KV, having 50mm dia. of outer pipe and 25 mm dia. of inner pipe and length of 3mtrs with 50kg Back Fill Compound as per UL 476, of Powerfill Eco friendly electrical grounding backfill compound and clamp (UPS) - Chemical GI Earthing) ERDA & NSIC approved, E link or ETP MAKE or ASHLOK MAKE. Any other make will not be consider. - Cu. (UPS) + (DB - PANEL).	2	nos		
20	SITC and jointing of following wire / strip / earth cable on walls, ceiling etc. With necessary non rusting clamps, washers, nuts and bolts etc complete.				
20.1	SITC of 16.0 sq. mm. Cu. Flexible wire with 20 / 25 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete From Cu. earthing pit to Main Panel + From Cu. Earthpit to UPS I / P DB.	50	Rmt		
20.2	SITC of 6.0 sq. mm. Cu. Flexible wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete for all DBS,, etc.	15	Rmt		
20.3	SITC of 4.0 sq. mm. Cu. Flexible wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete for all AC outdoor units, etc.	70	Rmt		
F	CABLES & CABLE TERMINATIONS:				
21	Supply, Laying, 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 ceiling 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 end termination of following PVC insulated armoured cables including supply and fixing of brass single compression type cable glands and crimping type aluminum / copper lugs suitable for terminations of armoured cables of following overall diameters, incl.				
21.1	3 C x 2.5 sq. mm Cu . Conductor YWY cable. (for Signboard).	50	mtr		
21.2	4 C x 4.0 sq. mm Cu. Conductor YWY cable. (from ACDB to 3 phase cassette ac outdoor units.).	80	mtr		

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21.3	4 C x 10.0 sq. mm Cu. Conductor YWY cable. (Main Panel B to UPS I/P DB , main MCCB box in ele. room to ACDB B).	80	mtr		
21.4	4 C x 16.0 sq mm Alu. Conductor AYFY cable. (Main Panel B to LDB, PDB, main MCCB box in ele. room to LDB 2B .) .	10	mtr		
21.5	3.5 C x 50.0 sq. mm Alu. Conduktor AYFY cable. (main cable from Panel B to main mccb in ele. Room .) (LENGTH as per site contition) .	50	mtr		
21.6	50.0 sq. mm single core Cu. wire supply & laying for main load wire from meter to main switch in flexible pipe. <u>if required.</u>	6	mtr		
21.7	3 C X 10.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (UPS to UPS O/P DB & UPS I/P DB to UPS). - for branch.	8	mtr		
21.8	3 C X 6.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (UPS O/P DB - main to UPS O/P DB - wings). - for branch.	30	mtr		
21.9	3 C X 4.0 sq. mm flexible Cu. cable with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark . (ups o/p db in ups room to essential ups o/p db in branch.).	30	mtr		
G	MISCELLANEOUS ITEMS :				
22	Laisioning work - to ensure full load as per load list (co ordinate with landlord) & main load wires to carry full load from Electric suppply Co. main busbar junction to branch energy meter & Apporoval and Neccessary certificate. Also submit first light bill copy & load list with duly signed by ele. vendor at time of final bill.	1	job		
23	Removing in area which will be proposed to be redesigned & providing necessary plug points (6 boards - each including 25 DP RCCB, 30 mA + 3 nos switches & 3 nos plugs, 16 a switch & 16 a plug) & light points for tube lights (including necessary 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		
	GRAND TOTAL :::				