

BOQ FOR ELECTRICAL WORKS AT STATE BANK OF INDIA, ALKAPURI BRANCH, VADODARA.

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
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.	68	nos		
1.2	One switch controlling Two light points .	80	nos		
1.3	One switch controlling Three light points .	3	nos		
1.4	One switch controlling Four light points .	2	nos		
1.5	5A socket outlet with 5A switch (on common board) (1 FOR WATER COOLER).	50	nos		
1.6	5A socket outlet with 5A SP switch (as an independent point) [for ex. Fan, wall fan , QMS, Token M/C Display, etc. points.]	32	nos		
1.6	Call bell point with bell push complete.	3	nos		
1.7	SITC of loop light points Of 2 nos. of 1.5 sq. mm. off wires & 1 nos. of 1.0 sq. mm. earth wire from Main panel timer of mains of 2 nos. of 2.5 sq.mm wire and 1 no.of 1.0 sqmm pvc Insulated copper conductor earth wire laying in with 20 mm/25 mm dia type PVC rigid conduits 1.5 mm thick ISI mark (This point is for Signage and Down Lighter Points at Entrance).	6	nos		
2.1	SITC of 6/16 Amp. Switch and socket complete with necessary require wiring from LDB of 2 no of 2.5 sq mm wires and 1 no of 1.0 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 LDB. (For Record Room. - wiring points).	2	nos		
2.2	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).	10	nos		

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3	SITC of 20 A/ 25 A, 230 V, with DP ELCB, 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 . Server Room AC Supply need to be given through Main Panel. 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. For Cassate AC power supply indoor or outdoor need to be given as per AC vendor's requirement. 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 ENCLOS / panel with main switch & 5 nos 4p	13	nos		
B	LIGHTING FIXTURES :				
	(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULANTS BEFORE ORDERING THEM.				
4	ITC of (including supply and fixing flexible wires from holder to fixtures hardwares etc.) of.... - The marking & cutting of fixtures should be in ele. contractor's scope..				
4.1	ITC of LED 1 x 31 W (2' X 2') RECESS MOUNTED LUMINAIRE with making earthing conection 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.	10	nos		
4.1A	Removal & reinstallation of exisitng LED (2' X 2') RECESS MOUNTED LUMINAIRE with making earthing conection 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.	45	nos		
4.2	ITC of 1x12 W Square / Round LED DOWN LIGHT pressure die cast fixture to be recessed in false ceiling with all necessary hardwares, chains, hook etc. complete. should be connected to supply wire with PVC connector. Earthing connection with lugging need to given to body of Fixture.	80	nos		
4.2A	Removal & reinstallation of exisitng 1x12 W Square / Round LED DOWN LIGHT from to be recessed in false ceiling with all necessary hardwares, chains, hook etc. complete. Earthing connection with lugging need to given to body of Fixture.	6	nos		
4.3	ITC of LED tube light 1 x10 W (560 lumens) Surface mounting type with LED tube, complete. For Toilet area.	3	nos		
4.4	Supply and insallation of Call bell with Indicatore. (Max or equivalent make)	3	nos		
4.5	SITC of Exhaust fan of 300 mm, fresh air vantilator 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 is of heavy duty industrial for Ups room.	7	nos		
4.6	ITC of 48" Ceiling Fan with with SITC of fan step socket modular regulator, Max. 3 feet Fan Rode, Anchor Fastner, etc.	18	nos		
4.7	ITC of 1 x 18W led batten light fixture (T-5) with electronic driver and tube complete with necessary hardwares, etc .	34	nos		
4.7A	Removal & reinstallation of exisitng 1 x 18W led batten light fixture (T-5) with electronic driver from old premises to new premises to be fixed on wall / slab ceiling as shown in layout with all necessary hardwares, etc. complete. Earthing connection with lugging need to given to body of Fixture.	20	nos		
4.8	ITC of 450 mm sweep wall mounted fan with metal body, metal stand, guard and blade with SITC of 6 a. 3 pin top complete.	5	nos.		

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4.9	ITC of Decorative 7 W (180 lumens) LED DOWN LIGHT PANEL with its driver also. (This is for down lighter in ACP work near entrance).	6	nos		
4.10	ITC of LED PROFILE LIGHT FIXTURE with aluminium extrusion / acrylic housing materials, cutout of 35 mm x 43 mm , approx length as per layout. - marking & size to be given by ele. Vendor as per layout.	60	mtrs.		
4.11	ITC of LED STRIP LIGHT flexible complete with driver units as per layouts (led strips of diff. lengths, 230 v, 50 Hz, as required .	45	mtr		
4.12	ITC of Decorative 3 W / 5 W (180 lumens) LED EYE BALL LIGHT fixture with its driver also.	12	nos		
4.13	ITC of track light with required spot lights (in one set - max. 4 led light fixtures) of 15 w (4K) with its driver also. - - marking & size to be given by ele. Vendor as per layout. Wooden strip to be fixed by furniture vendor - coordination with furniture vendor.	6	nos		
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 switch 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.	45	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. .	27	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 BSNL Krone to new krone in server room].	60	mtr		

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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).	47	nos		
9.1	SITC of 12 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		
9.2	Removal & reinstallation of existng 9 U metal rack for computer clamping switch etc complete with Tray Mounting Fan + power supply board from old premises to new premises. Bank's hardware - port switch / patch panel must be installed by ele. Contractor in this rack.	1	nos		
10	SITC of 24 - port ithubnet switch. (make : D Link / Digi Link).	nil	nos		
11	SITC of 24 port patch panel for computers mounting in metal rack. (make : D Link / Digi Link).	3	nos		
12	Supply and crimping of RJ 45 connector with proper testing.	nil	nos		
13	Supply & fixing the Patch cord 1 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	47	nos		
14	Supply & fixing the Patch cord 2 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	35	nos		
15	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 III 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.	27	nos		
17 (A)	SITC of 50 pair krone telephone tag block duly enclosed in sheet metal powder coated box with locking arrangement complete with necessary terminations.	1	nos		

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D	DISTRIBUTION BOARD AND PANELS :				
18	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.				
18.1	4 - WAY TPN DB : (LDB 1 & 2). All MCB should be ' B ' type.	2	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).				
18.2	6 - WAY TPN DB : (PDB 1 & 2). 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 (12 nos).				
18.3	4 - WAY TPN DB : (ACDB 1). All MCB should be ' C ' type.	1	nos		
	incoming : 63 A FP MCB - 1 NO .				
	outgoing : 20 A / 25 A DP MCB (6 nos) for HI- WALL SPLIT AC / CASSETTE AC points.				
18.4	4 - WAY TPN DB : (ACDB 2). All MCB should be ' C ' type.	1	nos		
	incoming : 63 A FP MCB - 1 NO .				
	outgoing : 20 A / 25 A DP MCB (3 nos) for HI- WALL SPLIT AC / CASSETTE AC points.				
	outgoing : 20 A / 25 A FP ELCB, 100 mA (1 nos) for 3 PHASE CASSETTE AC points.				
18.5	4 - WAY TPN DB : (ACDB 3 & 4). All MCB should be ' C ' type.	2	nos		
	incoming : 63 A FP MCB - 1 NO .				
	outgoing : 20 A / 25 A FP ELCB, 100 mA (3 nos) for 3 PHASE CASSETTE AC points.				
18.7	12 WAY SPN DB : (UPS DB 1 & 2) OUTPUT. - All MCBs must be C Type Characteristic.	2	nos		
	incoming : 63 A DP 100 mA ELCB.				
	outgoing : 10 to 20 A SP MCB (8 nos).				
18.8	6 WAY SPN DB . (For essential ups points - UPS O/P DB . - In Ups room.).	1	nos		
	outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.				
	outgoing : 10 A / 20 A. SP MCB - 3 NO FOR essential ups points - DATA RACK / FIRE PANEL / CCTV NVR PTS.				
18.9	6 WAY SPN DB . (For UPS O/P DB MAIN - IN UPS ROOM).	1	nos		
	outgoing : 63 A. DP MCB - 2 NO FOR UPS OUTPUT.				
	outgoing : 10 A / 20 A. SP MCB -1 NO FOR UPS OUTPUT.				
18.10	UPS 8 WAY SPN DB (UPS I/P 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) .7.5 KVA.				
	outgoing : 25 A DP MCB - 1 NO FOR 1 - phase UPS INPUT for E Lobby.				
	outgoing : 10 A SP MCB - 1 NO FOR UPS ROOM LIGHTING.				
18.11	UPS 4 WAY SPN DB (UPS I/P 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) - 10 KVA.				

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18.12	DP METAL ENCLOSURE DB . (For ATM UPS O/P DB - IN UPS ROOM). outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.	1	nos		
18.13	8 - WAY SPN DB : (ATMDB). All MCB should be ' C ' type. incoming : 40 A FP MCB - 1 NO . outgoing : 20 A / 25 A DP MCB (1 nos) for HI- WALL SPLIT AC points. outgoing : 10 to 20 A SP MCB (2 nos).	1	nos		
18.14	4 WAY SPN DB . (For ATM ups points - UPS O/P DB - in ATM AREA.). outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT. outgoing : 10 A / 20 A. SP MCB - 2 Nos.	1	nos		
19.1	SITC of 25 A / 32A / 40 A / 63 A FP MCB (C - Curve) with IP 65 company made pvc / metallic double door sheet steel enclosure complete for three phase 3.0 / 5.5 / 8.5 TR VRF / DUCTABLE / CASSETTE AC units. (as per IP 65 protection). THE ENCLOSURE SHOULD BE SAME MAKE AS MCB MAKE.	7	nos		
19.2	SITC of 25 A DP MCB (C - Curve) with IP 65 company made pvc / metallic double door sheet steel enclosure complete for single phase 2.0 TR split AC units. (as per IP 65 protection). THE ENCLOSURE SHOULD BE SAME MAKE AS MCB MAKE.	3	nos		
21	ITC of Main panels as per drawing and specifications. With all necessary terminations, checking of all parameters as stated below at time receiving from vendor. <u>Drawing Need to be approved by Electrical Consultanat / Bank's Engineer before starting work. READ SLD CAREFULLY.</u>				
21.1	MAIN PANEL B : at entrance area of branch. Incoming feeder : 200 A C&S Make CSE1N200ETM4P-200A (1 No.). The MCCB should have inbuilt Earth Fault & Neutral Overload Protection with Power Supply & Display Module for Metering & Fault Recording. * 80 A, FP Change over switch (1 No.). - LDB & PDB Loads. * 300 AMP. 500 Volts, 3 phase 50 Hz FP Alu. bus bars of suitable length -Current ratio shall be 1 sq mm = 1.2 A. * 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. * 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. * Outgoing feeder: * 40 A FP MCB (2 NO - LDB 1 & 2). * 40 A FP MCB (1 NO - BASEMNET LOCKER LDB). * 63 A FP MCB (2 NO - PDB). * 63 A FP MCB (2 NO - ACDB - 3 phase cassette ac.). * 63 A FP MCB (2 NO - ACDB .). * 40 A FP MCB (1 NO - SPARE DB).	1	nos		

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Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
21.2	MAIN PANEL A : at backside of branch. - essential power panel.	1	nos		
	Incoming feeder : 250 A C&S Make CSE1N250ETM4P-250A (1 No.). The MCCB should have inbuilt Earth Fault & Neutral Overload Protection with Power Supply & Display Module for Metering & Fault Recording.				
	* 100 A, FP Change over switch (1 No.). - UPS Loads.				
	* 300 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.				
	* 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).				
	* 200 A C&S Make CSE1N200ETM4P- 200A (1 No.).				
	* 63 A FP MCB (2 NO - UPS DB).				
* 40 A FP MCB (1 NO - ATM DB.).					
* 40 A FP MCB (1 NO - SPARE DB).					
E	EARTHING SYSTEM:				
24	SITC and jointing of following wire / strip / earth cable on walls, ceiling etc. With necessary non rusting clamps, washers, nuts and bolts etc complete.				
24.1	25 x 3 mm G.I. Strip - From G. I. earthing pit to Main Panel + From Cu. Earthpit to UPS I / P DB.	40	Rmt		
24.2	25 x 3 mm CU.strip.	nil	Rmt		
24.3	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. - 2 wires compulsory from main panel A to main panel B.	282	Rmt		
24.4	8 SWG CU. Wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / burried in floor etc. complete.	28	Rmt		
F	CABLES & CABLE TERMINATIONS:				
25	Supply, Laying, installation, testing and commissioning 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.				
25.1	3 C x 2.5 sq. mm Cu . Conductor YWY cable. (for Signboard).	50	mtr		
25.2	4 C x 4.0 sq. mm Cu. Conductor YWY cable. (3 PHASE CASSETTE ACDB to 3 PHASE CASSETTE AC - 3.0 TR OUTDOOR UNIT.).	185	mtr		
25.3	4 C x 6.0 sq. mm Cu. Conductor YWY cable. (Main Panel to UPS I/P DB).	20	mtr		
25.4	4 C x 10.0 sq. mm Cu. Conductor YWY cable. (Main Panel to 3 PHASE ACDB 3, 3 PHASE ACDB 4 , UPS I/P DB).	30	mtr		
25.5	4 C x 16.0 sq mm Alu. Conductor AYFY cable. (Main Panel to LDB, PDB, ATM DB, LDB at basement , ACDB 1 , ACDB 2.).	203	mtr		
25.6	3.5 C x 70.0 sq. mm Alu. Conductor AYFY cable. (main cable from Panel A to main panel B.) (LENGTH as per site contition) .	45	mtr		

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25.7	3.5 C x 50.0 sq mm Alu. Conductor AYFY cable. (DG set to main panel A to main panel B.) .	45	mtr		
25.8	3.5 C x 50.0 sq mm Alu. Conductor AYFY cable. (removal & reinstallation of DG supply cable.) .	25	mtr		
25.9	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		
25.10	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 in UPS ROOM to UPS O/P DB 1 & 2). - for branch.	47	mtr		
25.11	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 to UPS O/P DB & UPS I/P DB to UPS - for ATM & UPS O/P DB MAIN to Essential UPS O/P DB).	39	mtr		
25.12	3 C X 4.0 sq. mm. flexible PVC Insulated copper conductor cable laying in with 20 mm/25 mm dia PVC rigid conduits 1.5 mm thick ISI mark from AC indoor unit to AC outdoor unit.	30	mtr		
G	MISCELLANEOUS ITEMS :				
26	SITC of 300 x 300 x 40 mm size GI box duly fabricated from 18 SWG m.s. sheet with top cover of s. s. sheet complete with necessary knock outs at all the sides of box for conduit entries duly fixed in floor, including breaking in floor and re-finished the same etc. complete (Wire Draw Box).	20	nos		
27	SITC of 150 x 150 x 40 mm size GI box duly fabricated from 18 SWG m.s. sheet with top cover of s. s. sheet complete with necessary knock outs at all the sides of box for conduit entries duly fixed in floor, including breaking in floor and re-finished the same etc. complete (Wire Draw Box).	6	nos		
28	SITC of 4.0 sq. mm. 3 core flexible cable of approved make (3 mtr. Length) with heavy duty industrial pvc flexible pipe & 15 amp. 3 pin top of approved make for the supply of compactor room.	2	nos		
29	SITC of CABLE TV cable line with proper fixing and connecting with modular Co-Axial TV Socket. - 2 run.	40	mtr		
30.1	SITC of 24 Hr, 7 days A/C timer with 2 nos of TP power contactor of M.D.S, L & T , SEIMENS, THEBEN (indoasian) Make. All enclosed in sheet steel powder coated enclosure of 200 X 200 mm complete with all necessary termination for e lobby AC supply. Here Ready made Cyclic Timer Will not be permitted. - to be installed in E lobby near main DB & one in server room.	2	nos		
30.2	SITC of 24 Hr, 7 days A/C timer with of M.D.S, L & T , SEIMENS, THEBEN (indoasian) Make. All enclosed in sheet steel powder coated enclosure of 200 X 200 mm complete with all necessary termination for UPS room ex fan supply. Here Ready made Cyclic Timer Will not be permitted. - to be installed in ups room.	1	nos		
31	Supply & laying of the empty conduit . - 25 mm.	100	mtr		
33	Laisoning work (addition Load) WITH Electric supply Co. in branch & Apporoval and Necessary certificate.	1	job		

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34	Removal of old wiring in area which will be proposed to be redesigned & providing Necessary plug points & 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 accessories 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.ordination 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		
	TOTAL - PART A :::				
	PART - B ::: BUYBACK				
35	BUY BACK : FROM premises - Entire existing electrification, telephone wirings, LAN wirings with conduits shall be removed and shall be purchased by the contractor including switches and accessories, ceiling fans, exhaust fan , DBs, panels, excluding all cables, led light fixtures , etc .. (Contractor shall last visit site before quoting and the submit the list of material with quantities which are buying and the quoted rate shall be lump sump basis). items to be considered for buyback are as : PDB with 1 no ELCB & 18 nos sp mcbs / ACDB with 4p mcb - 6 nos. / ups op DB with 1 no dp mcb & 8 nos sp mcb / DB with 1 no dp mcb & 16 nos sp mcb / DB with 1 no 4p ELCB & 3 nos 4p mcb / DB with 1 no 4p ELCB & 12 nos sp mcb / DB with 1 nos dp mcb & 6 nos sp mcb / DB with 1 no dp ELCB & 16 nos sp mcb / 200 A FP change over switch with metal enclosure / 2 nos 200 A TPN busbar chambers / panel with 200 A main switch & 10 nos 4p SFUs / panel with main switch & 5 nos 4p mcbs & 1 no dp mcb, 20 nos wall fans, etc. - items listing in letter pad with duly signed by vendor & branch head.	1	Job		
	TOTAL - PART A - PART B (BUYBACK) :::				
	% DISCOUNT IF ANY :::				
	GRAND TOTAL :::				
1	ALL RATES SHOULD BE INCLUDE OF ALL TAXES EXCLUDING GST WHATEVER IS APPLICABLE.				
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 SHOULD SUBMIT & APPROVE MAKE LIST WITH ARCH./ BANK'S ENGINEER / ELE. CONSULTANT BEFORE WORKING & SUBMIT SIGNED COPY WITH FINAL BILL SUBMISSION.				
5	THE CONTRACTOR SHOULD CHECK ELE. APPROVED MAKE LIST BEFORE QUOTE.				
6	THE CONTRACTOR SHOULD SUBMIT TEST CERTIFICATE OF PANEL FROM PANEL BUILDER AS PER PERFORMA GIVEN IN TENDER. BUT THE PANEL SHOULD BE MADE AS PER CPRI TERMS & CONDITIONS & ALSO APPROVED BY BANK'S ELE. ENGINEER / CONSULTANT . THE CONTRACTOR SHOULD FOLLOW THE GA DRAWING & PANEL SLD IF GIVEN IN TENDER.				
7	LOWEST BIDDER SHALL BE DECIDED AFTER DEDUCTING THE BUYBACK VALUE.				
8	THE CONTRACTOR SHOULD SUBMIT BANK GUARANTEE OR WARRANTY OF FIXTURES - LED FOR MIN. 3 YEARS.				
9	CONTRACTOR SHOULD BE SUBMITTED THE CERTIFICATE OF WIRES THOSE USED FOR THE BRANCH FROM DULY SIGNED BY COMPANY AUTHORISED PERSON. - PER PROJECT BASIS.				
10	EARTH RESISTANCE SHOULD BE CHECKED & SUBMITTED THE REPORT WITH DULY SIGNED BY ELE. CONTRACOTR AT THE TIME OF BILL CHECKING.				
11	SINGLE LINE DIAGRAM SHOULD BE SUBMITTED AT BRANCH & ONE COPY SHOULD BE ATTACHED NEAR DB / MAIN PANEL.				
12	SHOCK TREATMENT CHART SHOULD BE PEST NEAR DB / MAIN PANEL. STICKERS SHOULD BE PEST ON DBS / MAIN PANEL.				

BOQ FOR ELECTRICAL WORKS AT STATE BANK OF INDIA, ALKAPURI BRANCH, VADODARA.

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
13	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.				
14	CONFIRMATION/ RECEIVED SIGNATURE FROM BRANCH MANAGER REQUIRED FOR SUPPLY OF PATCH CORDS.				
15	THE RATES QUOTED BY THE CONTRACTOR IN THE COLUMN WHERE QUANTITY & UNIT ARE NOT MENTIONED IN THE TENDER ARE NOT NECESSARY BE ACCEPTED , IF LATER THE SAME ARE TO BE FIXED ON SITE.				
16	THE CONTRACTOR SHOULD BE ADVISED NOT TO LAY ANY CONDUIT / CABLE MAIN LINES THROUGH THE CASH ROOM / LOCKER ROOM / RECORD ROOM FOR SECURITY SAFETY AUDITS.				
17	IF THE CONTRACTOR HAS NOT CARRIED OUT ELECTRICAL WORK AS PER STANDARD SPECIFICATION THEN CONTRACTOR IS LIABLE TO REMOVE AND REWORK AS PER STANDARD SPECIFICATION AND WHATEVER THE DAMAGE IN CONNECTION WITH CIVIL/ FURNITURE/ AC WORK WILL BE BEAR BY CONTRACTOR. IF CONTRACTOR WILL NOT DONE REWORK THEN WHATEVER BEEN THE COST FOR REWORK WILL BE DEDUCTED FROM CONTRACTOR'S BILL.				
18	THE CONTRACTOR SHOULD BE ADVISED TO FIX 2 / 3 INCH SIZE PIES FOR HOLES IN OUTSIDE AREA WHERE THERE WILL BE CREATED THE HOLES IN WALL FOR CABLES / EARTH STRIP LAYING WORKS. FILLED WITH CEMENT / MORTAR WITH END CAPS OF PIPES.				
19	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.				

APPROVED MAKE LIST OF EQUIPMENT AND ACCESSORIES

1	PVC rigid conduits & Accessories. : 1.5 mm thick (MMS) ISI and FIA approved - Precision / Vraj / Nihir / BLP / PFI / Astral / Polycab / Anchor make. (Only white coloured pipes FRLS type to be used.).				
2	L.T. Cables : Havells / KEI / Polycab / R. R. Kable / Finolex.				
3	Wires (FRLS) : Havells / KEI / Polycab / R. R. Kable / Finolex / Anchor.				
4	Main Distribution Boards / ELCB - RCCB - Miniature Circuit Breaker / Switch gears : ALL Switchgear items & mcbs & dbbs should be same make for one branch. MDS Legrand (Lexic) / Hager / Havalls / Schneider (Eazy 9) / C & S Wintrip / Siemens Bitaguard / ABB.				
5	Change Over Switch : HPL Socomac / Havells / L & T / Hager.				
6.A	Domestic fittings : - All Switching Modular Accessories. : Schneider Livia / Anchor Roma Plus / Crabtree Verona / Legrand Myris / ABB / C & S Elusio.				
6.B	Domestic fittings : - Holders / ceiling roses. : Anchor / ABB or equivalent approved make.				
6.C	Domestic fittings : - Adhesive Tape. : Bhor (Steel Grip) or approved .				
7	10 - 30 A Polycarbonate Socket & Top : MDS Legrand (Lexic) / Hager / Havells / Schneider (Eazy 9) / C & S Wintrip / Siemens Bitaguard / ABB.				
8	Telephone Wires / Cable : Finolex / R. R. Kable / Havells / L & T / Polycab.				
9	Telephone tag block : Krone make.				
10	Cable Lugs : Dowell / Lotus / Jainson / 3 D.				

BOQ FOR ELECTRICAL WORKS AT STATE BANK OF INDIA, ALKAPURI BRANCH, VADODARA.

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
11	Cable gland Single / Double Compression : HMI / Comet / 3D.				
12	Ammeter / Voltmeter : AE / HPL / MECO / Enercon make.				
13	Selector switches : L & T salzer / Kaycee / ABB make.				
14	Indicator lamps : LED type Teknic / Precifine / Binay / ABB.				
15	Connector strips : Wago / Elmex make.				
16	Lighting Fixtures : Wipro / Philips / GE / Crompton / Havells.				
17	Exhaust fan (Light duty) : Khaitan / Crompton / Havells.				
18	Ceiling Fan (5 star rated) : Crompton (High Breeze Plus) / Havells / Orient (PSPO).				
19	Wall mounted Fan (5 star rated) : ALMONARD tempest mark II or equivalent make. Wall fan with PVC body strictly rejected.				
20	Data Cable - I / O Unit : D - Link / Digi Link.				

LIGHTING / FAN FIXTURES - SEE CAT NO. & SPECIFIED MAKE IN THE PRICE BID.

CONTRACTOR SHOULD USE ONLY ONE COMPANY FOR ALL SWITCHBOARDS / DBS.

CONTRACTOR SHOULD SUBMIT SIGNED COPY OF MAKE LIST BEFORE WORK STARTED.