

PRICE BID FOR ELECTRICAL WORK of Kukarwada Branch for State Bank of India.

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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.	21	nos		
1.2	One switch controlling Two light points .	12	nos		
1.4	5A socket outlet with 5A switch (on common board) (1 FOR WATER COOLER).	5	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.]	8	nos		
1.6	Call bell point with bell push complete.	1	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 Cash Room, Locker Room, small Record Room - wiring points).	3	nos		
2.3	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		

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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 ENCLOSURE SHOULD BE SAME MAKE AS MCB MAKE.	8	nos		
B	LIGHTING FIXTURES :				
	(NOTE : ANY OF FIXTURES AND FITINGS SHALL BE RE-CONFIRMED WITH THE ARCHITECTS / CONSULTANTS BEFOTE 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 submited. nichia / LUmileds / cree - LED should be used by manufacture. Lighting Luminaire of LED for Office single piece die cost 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) - opertive on 190V - 270 V 50 Hz with Mini 3 years warranty complete with mounting stystem and lamp dully 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 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. (Crompton Model ORION II Cat Ref No: LCTLRN-36-FO-CDL, CCT 6000 K and CRI > 80, lumen O/P > 3300 lumen, Syatem wattage (LED + Driver) < 40 Watt. or Equivalent in GE/ Philips / Havells / Wipro make) .	19	nos		

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4.2	SITC of 1x15 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.	10	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 make) . For Toilet area.	1	nos		
4.4	Supply and insallation of Call bell with Indicatore. (Max or equivalent make)	1	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.	3	nos		
4.61	Removing & Re fixing of 48" Ceiling Fan with fan step socket modular regulator, Max. 3 feet Fan Rode, Anchor Fastner, etc. (WHITE COLOUR - BEE 5 star labeled ceiling fan Alluminium body and copper winding.) (Orient PSPO or Equivalent approved make in Crompton / Havells. - Model High Breeze Plus BEE 5 Star labeled ceiling fan , Aluminium body , copper winding).	5	nos		
4.7	Remove & Re fixing of 1 x 18W 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%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. and 2 years waranty.LED Batten Comprises of Thermally conductive material. Pre-wired with high efficiency electronic driver. High translucent frosted diffuser gets glare free, smooth light distribution. (Cormpton / GE/ Philips / Havells / Wipro make) .	11	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 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.	17	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. .	9	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].	40	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).	17	nos		

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
9	Removing & Re fixing of 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		
11	SITC of 24 port patch panel for computers mounting in metal rack. (make : D Link / Digi Link).	1	nos		
13	Supply & fixing the Patch cord 1 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	20	nos		
14	Supply & fixing the Patch cord 2 mtr. Long (factory built) .-When supplying , then first ask to BM / Consultant / Architect / Bank Authority.	15	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 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.	9	nos		
17 (A)	SITC of 20 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 :				
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	6 - WAY TPN DB : (LDB). 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 (9 nos).				
18.2	6 - WAY TPN DB : (PDB). 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 (9 nos).				
18.3	8 - WAY TPN DB : (ACDB). All MCB should be ' C ' type.	1	nos		
	incoming : 63 A FP MCB - 1 NO .				
	outgoing : 20 A / 25 A DP MCB (8 nos) for HI- WALL SPLIT AC points.				

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
18.5	8 WAY SPN DB : (UPS DB - branch main.) OUTPUT. - 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).				
18.6	4 WAY SPN DB . (For essential ups points - UPS O/P DB.).	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.				
18.8	4 WAY SPN DB . (For UPS O/P DB. AT UPS ROOM). - BRANCH.	1	nos		
	outgoing : 40 A. DP MCB - 1 NO FOR UPS OUTPUT.				
	outgoing : 25 A. DP MCB - 1 NO FOR UPS OUTPUT.				
18.10	UPS 12 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 : 10 A SP MCB - 1 NO FOR UPS ROOM LIGHTING.				
	outgoing : 25 A DP MCB - 1 NO FOR INVERTER.				
21	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 :	1	nos		
	Incoming feeder : 100 A C&S Make CSE1N100ETM4P-125A (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 (2 No.). (Regular and Essential Power)				
	* 63 A, FP Change over switch (1 No.).				
	* 63 A, FP Change over switch (1 No.).				
	* 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.				
	* 80 AMP. 500 Volts, 3 phase 50 Hz FP Alu. bus bars of suitable length -Current ratio shall be 1 sq mm = 1.2 A.				
	* 63 AMP. 500 Volts, 3 phase 50 Hz FP Alu. bus bars of suitable length -Current ratio shall be 1 sq mm = 1.2 A.				

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	* 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). * 40 A FP MCB (1 NO - LDB). * 63 A FP MCB (1 NO - PDB). * 63 A FP MCB (1 NO - UPSDB). * 80 A FP MCB (1 NO - ACDB). * 40 A FP MCB (1 NO - SPARE DB)				
21	SITC of 100A FP MCCB- C&S Make CSE1N160ETM4P-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 100A OPEN TYPE FP MCCB UNIT with Phase indicator lamps phase wise , control fuses & wooden back complete. THIS WILL BE INSTALLED NEAR MAIN DOOR - INSIDE OR OUTSIDE - OF THE BANK. (first ask to BM / Consultant / Architect / Bank Authority.	1	nos		

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
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.				
24.3	8 SWG G.I. Wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / buried in floor etc. complete for ELE. PANEL, ALL DBS , ETC.	10	Rmt		
24.4	8 SWG CU. Wire with 20 mm dia. PVC rigid conduit duly cleated / concealed / buried in floor etc. complete.	20	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.(LENGTH 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).	10	mtr		
25.3	4 C x 6.0 sq. mm Cu. Conductor YWY cable. (Main Panel to UPS I/P DB) .	25	mtr		
25.5	4 C x 16.0 sq mm Alu. Conductor AYFY cable. (Main Panel to LDB, PDB , ACDB) .	15	mtr		
25.6	3.5 C x 50.0 sq. mm Alu. Conductor AYFY cable. (main cable from Panel to main mccb nr. energy meter) (LENGTH as per site condition) .	10	mtr		
25.8	25.0 sq. mm single core Cu. wire supply & laying for main load wire from meter to main switch in flexible pipe. <u>if required.</u>	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 to UPS O/P DB & UPS I/P DB to UPS). - for branch.	20	mtr		
25.12	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).	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).	2	nos		

Sr. No.	DESCRIPTION	QTY	UNIT	RATE	AMOUNT
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).	9	nos		
28.1	SITC of 2.5 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 RECORD ROOM, LOCKER ROOM, CASH ROOM.	3	nos		
35	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		
	GRAND TOTAL :::				