

BOQ FOR ELECTRICAL RENOVATION WORK OF CANARA BANK, KONARK BRANCH

SL.NO.	DESCRIPTION OF ITEMS	UNIT	QNTY	RATE	AMOUNT
1. WIRING TO POINTS					
A	PVC conduit wiring				
1.0	Concealed / resessed / surface light point / fan point / call bell point etc. wiring using 1100V FRLS grade 3R (P+N+E) x 1.5 Sq.mm FRLS multi stranded copper conductor PVC insulated wires (with proper R,Y,B color code) pulled through rigid FR/FRLS PVC conduits of 20mm Dia 1.5 mm thick laid concealed over false ceiling or in wall chases or on the ceiling in case of an open ceiling, with modular type switch plate, switches, GI concealed back box, etc. of legrand mylinc or equivalent make. S.I.T.C.(Supply Installation Testing And Commissioning) as directed by the Engineer-in-charge. (Each circuit shall not feed more than 8 points OR 800 watts as per following configuration.)				
	NOTE:- 1. Only FRLS wire shall be used; 2. The wires from ceiling junction to light points / light fixture shall be drawn in flexible PVC conduit with adptor & cover for junction box & crimp type lugs at both the ends alongwith necessary hardware & accessories, etc. as required; 4. Looping of Neutral / Earth wire between two seperate Primary / Full Points is strictly not allowed; 5. Looping of Neutral / Earth wire between two seperate circuits on similar or other phase is strictly not allowed; 6. Ferulling / numbering / taggning to wires with circuit number & db name for all lighting & raw / ups power shall be strictly followed at both DB & switch board / switch socket boards ends.				
1.1	Primary light points including the cost of clip in type 6A Modular switch of legrand mylinc or equivalent make. S.I.T.C. as directed by the Engineer-in-charge.(1 light/fan controlled by one switch)	Nos.	25.00		
1.2	Subsequent point (Looped From Primary)	Nos	15.00		
1.3	Independent point using one 6 Amp Modular Switch and one 6 Amp, 2/3 pin Modular scoket mounted on a sutable size Box for wall fans.	Nos	12.00		
1.4	6 Amp 2/3 pin Modular socket with 6A Modular switch. (on common switch Board.)	Nos	3.00		
1.5	Primary light points including the cost of clip in type 6A Modular switch of legrand mylinc or equivalent make & model as approved by project in charge. (1 light controlled by one switch UPS point)	Nos.	3.00		
2.0	Concealed conduit wiring to 6/16 Amp plug socket with switch on SEPARATE BOARD with (2x1.5 sq mm + 1(1x1sqmm) PVC single core copper wire in PVC/ Super polyethylene pipe with galvanized iron junction & switch boxes & clip in type 6 Amp modular type switches with all accessories, T&P & as directed by the Engineer-in-charge at counter/table.	Nos	3.00		
3.0	Concealed conduit wiring to 20 Amp plug socket with switch on separate board with (2x2.5 sq mm + 1(1x1.5 sqmm) PVC single core copper wire in PVC/ Super polythene pipe with galvanized iron junction & switch boxes & clip in type 15 Amp modular type switches with all accessories, T&P & as directed by the Engineer-in-charge at STRONG ROOM/CASH COUNTER/PANTRY.	Nos	5.00		
4.0	Concealed conduit wiring to call bell point with one GONG BELL of 6” dia placed at strategic point with 6 Amp switch bell push clip in type modular type fixed on G.I. boxes placed at skirting level for emergency use, the wiring details are as per Sr .no. - 01. The places as located in drawing & as per direction of Engineer-in-charge.	SET	1.00		
5.0	Supply of all required materials and wiring to AC INDUSTRIAL PLUG SOCKET UNIT with 2 (1x4sqmm) PVC insulated copper wire run inside screw type PVC conduit pipe with ISI market laid on surfaced / recessed of wall/ceiling alongwith 1 (1x2.5sqmm) PVC insulated copper wire as earth continuity conductor complete in all respect including with use of 1.0/1.5 TR AC starter, concealed metal boxes with cover, wire, 20A SPN metalclad plug socket, metalic switch box for plug, junction box etc complete with making good the damages caused as required and as per direction of Engineer in charge.	Nos.	3.00		
6.0	Supply , fixing , testing of TELEPHONE POINT with suitable GI boxes with phone ,socket complete in all respect as per direction of EIC. (Loop from Manager cabin to One Officer Table)	Nos.	2.00		

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2. WIRING TO POINTS (U.P.S)					
1.0	Supplying & fixing of computer terminal boxes made of G.I. fitted with (2 nos. of 6 Amp switches + 4 nos. 6Amp socket), all clip in modular type & as per direction of Engineer-in-charge for each <u>COUNTER/TABLE</u> .	SET	11.00		
2.0	Supply of all required materials & wiring to clip in modular type 5 No. of 6/16 amp socket points controlled by 2 No of 16 amp switch with indicator complete in all respect including making good to damages caused as per direction of EIC for <u>HUB CONNECTION/PRINTER</u> supply .	SET	1.00		
3.0	Concealed conduit wiring to 20 Amp plug socket with switch on separate board with (2x2.5 sq mm + 1(1x1.5 sqmm) PVC single core copper wire in PVC/ Super polythene pipe with galvanized iron junction & switch boxes & clip in type 15 Amp modular type switches with all accessories, T&P & as directed by the Engineer-in-charge at <u>STRONG ROOM/CASH CABIN</u> .	Nos	2.00		
4.0	Concealed conduit wiring to <u>light point through UPS</u> with (2x1.5 sq mm + 1(1x1sqmm) PVC single core copper wire in PVC/ Super polythene pipe with galvanized iron junction & switch boxes & clip in type 6 Amp modular type switches with all accessories, T&P & as directed by the Engineer-in-charge.				
	1. Primary (l light controlled by one switch in UPS at cash counter/ BM/ banking hall)	Nos.	3.00		
3. WIRING . Main / Submain					
1.0	Providing and placing in position, testing and connecting 1.1 KV grade XLPE insulated PVC sheathed armoured Aluminium cable 3&1/2C x 35 sq. mm. conforming to IS 7098 with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable to be from <u>Supply to Main DB</u> .	Mtrs.	20.00		
2.0	Providing and laying 4 x 6 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Main DB to UPS DB</u> . Including all necessary terminals etc. complete.	Mtrs.	20.00		
3.0	Providing and laying 2 x 6 sq. mm. & 1 x 2.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>Main DB to INVERTER DB and then to LDB</u> . Including all necessary terminals etc. complete.	Mtrs.	40.00		
4.0	Providing and placing in position, testing and connecting 1.1 KV grade XLPE insulated PVC sheathed armoured Aluminium cable 4C x 10 sq. mm. conforming to IS 7098 with 2 Nos 10 swg GI ECC by GI bar and saddles on wall/floorpass. Cable to be from <u>Main DB to ATM ROOM</u> .	Mtrs.	10.00		
5.0	Providing and laying 4 core 6 Sq mm. Round Ar FR PVC insulated multi stranded copper cable in suitable size pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for <u>AC DB/main Panel To Starters/Outdoor Units of cassette AC</u> . Including all necessary terminals etc. complete.	Mtrs.	30.00		
6.0	Providing and laying 2 x 2.5 sq. mm. & 1 x 1.5 sq. mm. FR PVC coated copper conductors (1.1 KV grade) in pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories from <u>LDB to SWITCH BOARDS</u> . Including all necessary terminals etc. complete.	Mtrs.	120.00		
7.0	Providing and laying 2 x 2.5 Sq mm. & 1 x 1.5 sq. mm. FR PVC insulated multi stranded copper wire in suitable size pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for <u>UPS DB To Computer SB</u> . Including all necessary terminals etc. complete.	Mtr.	120.00		

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SL.NO.	DESCRIPTION OF ITEMS	UNIT	QNTY	RATE	AMOUNT
8.0	Providing and laying 2 x 4 Sq mm. & 1 x 1.5 sq. mm. FR PVC insulated multi stranded copper wire in suitable size pvc rigid pipe/capping-casing on surface of wall duly clamping with necessary fittings and accessories for <u>Split AC</u> . Including all necessary terminals etc. complete.	Mtr.	60.00		
9.0	Supply of all required materials & laying of the following sizes of phone wires of approved make inside the approved size PVC conduit complete in all respect as per instruction of EIC . 2 pairs telephone wires	Mtrs.	20.00		
4. FITTINGS OF FIXTURES (A)					
1.0	Supply, Installation and testing of recess LED light fittings (36 wt) of square type (2'-0"x2'-0") with all accessories complete required as per direction of Engineer in charge.	Nos.	13		
2.0	Supply, Installation and testing of recess LED light fittings (18 wt) of square type (1'-0"x1'-0") with all accessories complete required as per direction of Engineer in charge.	Nos.	5		
3.0	Supply, Installation and testing of recess LED spot light fittings (6 wt) of round type with all accessories complete required as per direction of Engineer in charge.	Nos.	13		
4.0	Supply, Installation and testing of single LED tube lights patty fittings (1x20wt) of surface mounting with all accessories complete required as per direction of Engineer in charge.	Nos	1		
5.0	Supply & Fitting of 450 mm sweep Wall fan of approved make .	Nos.	12		
6.0	Supply & Fitting of 400 mm sweep Exhaust fan of approved make.	Nos.	1		
7.0	Providing and fitting of call bell of approved make .	Nos.	1		
8.0	Supply, installation and testing of Angle Holder with LED Light fittings (1x9wt) of surface mounting with all accessories complete as required as per direction of Engineer in charge.	Nos.	1		
9.0	Fitting and testing of flexible LED strip of 5MTR of philips/Crompton/Wipro make along with electronic driver for 30w flexi LED strip	Nos	10.00		
5. MAIN PANEL & DISTRIBUTION BOARD.					
1.0	Supply, delivery, installation , testing , commissioning , of L&T indoor wall , floor , mounted , type distribution boards made out of 2 mm thk. CR sheet metal duely acid treated premised & painted with 2 coats of enamel paint compartment arrangement for each equipment & bus bar chamber on the top of the panel running horizontal through out its length duly lamp , vermin proof having provision cable by conduit entry , earthing stud as per specification mentioned below duly factory wired confirming to the relevant ISS & as per special condition of contract , making good the damages M.S. Cubical type Panel board should have hinged door at the front. The panel shall be provided with all accessories & following arrangements complete in all respect & direction of EIC (before fabrication of panel board drawing is to be approved by Engineer-in-charge).	Set	1		
	Incoming- 1No 25KA - 32 A TPN SPD				
	1No 160A- 30KA - 4POLE -MCCB.				
	1 set of 125A TPN copper bus bar				
	1 set of 63 A TPN copper bus bar				
	63A, 4-POLE Change over				
	Out going- 3 Nos 20 A DP MCB for A.C				
	2 Nos. 32 A 4P MCB for 3.0 Ton Cassette AC				
	1 Nos 32 A TPN MCB for A.T.M				
	1Nos 40 A 4P MCB for U.P.S, 40 A 4P MCB Spare				
	1Nos 40 A DP MCB for LDB/PDB 40A DP MCB Spare				
	1Nos 16/20A DP MCB for Glow sign board				
	1No. VAF Digital meter with CT.				
	6 Nos Phase indicator lamps				

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SL.NO.	DESCRIPTION OF ITEMS	UNIT	QNTY	RATE	AMOUNT
2.0	Supplying & fixing of company made & wired with double door arrangement DB of approved make with following arrangement. (PREMIUM TYPE)				
a	L.D.B	Set	1.00		
	12 way SP DB				
	Incoming 1 No. 32A DP MCB				
	Out going 10 No. 6-10 A SP MCB				
b	C.D.B	SET	1.00		
	12 way SP DB				
	Incoming 1 No. 32A DP MCB				
	Out going 10 No. 6-10 A SP MCB				
c	U.P.S Incoming DB	SET	1.00		
	8 way TPN DB				
	40 Amp 4P MCB - 2 nos (1main & 1 spare).				
d	U.P.S Outgoing DB	SET	1.00		
	4 way SPN DB				
	40 Amp DP MCB - 2 nos. (1main & 1 spare).				
e	Inverter DB	SET	1.00		
	6 way SPN DB				
	40 Amp DP MCB - 3 nos. (1 incoming, 1 outgoing & 1 spare).				
f	ATM UPS & BRANCH UPS CHANGE OVER DB	SET	1.00		
	4 way SPN DB				
	40 Amp DP Changeover MCB typr - 2 Nos.				
g	P.D.B	Set	1.00		
	12 way SP DB				
	Incoming 1 No. 32A DP MCB				
	Out going 10 No. 6-10 A SP MCB				
6. EARTHING					
1.0	Earthing as per I.E. rules with 40mm dia G.I. pipe of 3 mt. Long perforated on all sides with arrangements of light , termination of 600x600x3mm copper plate & 19x3 G.I flat firmly connected to plate with copper nut & bolt , washer etc. The earth pit should be filled with alternate layers of charcoal, salt & soil. The brick masonry chamber is to be covered with CI cover of minimum 300mm x 300mm size with all accessories & as per direction of Engineer-in-charge. (Both the earth pit must be interconnected by earth flat)	Nos.	2.00		
2.0	Providing and fixing of chemical earth electroad made out of 50mm dia class-B Asahalock or equevalent 2m length with copper plate made out of 600x600x3.15 mm tinned copper plate along with one number 40x5mm tinned copper strip grazed with the plate buried vertically with top edge of the plate at a depth of 1500 mm with arrangements for termination of copper strip of earth continuity conductor including cost of charcole, saltoreign soil, water pouring arrangements brick massionry encloser on top with R.C.C cover complete with labour and material as per direction of Engineer-in-charge	SET	1.00		
3.0	Supplying and laying 25 mm X 5 mm G.I strip at 0.50 metre below ground as strip earth electrode, including connection/terminating with G.I. nut, bolt, spring, washer etc. as required. (Jointing shall be done by overlapping and with 2 sets of G.I. nut bolt & spring washer spaced at 50mm)	Mts	20.00		
4.0	Providing and laying earth connection from earth electrode with 4.00 mm dia copp	Mts.	3.00		
5.0	Providing and fixing 4.00 mm dia copper wire on surface or in recess for loop earth	Mts.	30.00		
TOTAL (BRANCH ELECTRICAL WORK)				Rs	

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SL.NO.	DESCRIPTION OF ITEMS	UNIT	QNTY	RATE	AMOUNT
BOQ FOR ELECTRICAL WORK OF ATM CANARA BANK KONARK BRANCH					
SL.No.	DESCRIPTION OF ITEMS	UNIT	QNTY	RATE	AMOUNT
POINT WIRING					
1	Supply of all required materials and existing wiring to proposed light points / fan/ exhaust fan/ call bell points with 2 (1x1.5 sq.mm) PVC insulated copper wire run inside 20 mm PVC conduit pipe of 16 SWG or flexible conduit pipe laid on surface of wall / ceiling along with 1 (1 x 1 sq.mm.) PVC insulated copper wire as earth continuity conductor and complete in all respect as specified and making good to the damages caused and complete as per direction of Engineer-in-charge / Consultant.				
(i)	One point controled by existing switch	Nos	2		
(ii)	Group control point	Nos.	1		
2	Supply of all required materials and recessed wiring to 2/3 pin clip-in modular type 5 Amp plug socket points with 2 (1 x 1.5 sq.mm.) PVC insulated 1100/650 V grade stranded single core copper wire run inside 20 mm PVC Conduit (16 S.W.G) pipe laid on surface wall / ceiling along with 1 (1 x 1 sq.mm) PVC insulated copper wire as earth continuity conductor and complete in all respect including 3 pin 5 A sockets, switches, plates, boxes and cover as specified and making good to the damages caused and complete with all respect as per the direction of Engineer-in-charge / Consultant.				
(i)	Existing	Nos.	1		
(ii)	Separate	Nos.	0		
3	Supply of all required materials and recessed wiring to circuit / sub-mains with following number and sizes of PVC insulated 1100/650 volt grade stranded copper wire run inside 20 mm PVC conduit (16 S.W.G.) pipe laid on surface of wall / ceiling and copper wire as earth continuity conductor and complete in all respect including making good to all damages caused and as per the direction of Consultant and Engineer-in-charge.				
(a)	Recessed wiring with 2 (1 x 2.5 sqmm) + 1 x (1 x 1 sqmm) copper wire from M.D.B. to individualLight switch board.&computer plug board.	Mtrs	12		
(c)	Recessed wiring with 4 core 10 sqmm alumunium armod cable from MDB To ATM DB .	Mtrs	6		
4	Supply of all required materials and recessed wiring to 2 Nos. of 16 Amp and 2 nos of 5 Amp. Socket for computer including the modular boxes,& indicator clip-in-type plates, switches, screws and complete in all respect making good to the damages caused as per the direction of Engineer-in-charge / Consultant.	Nos	2		
5	Distribution Board (TPN DB)				
5.1	63A DP MCB 1 no as main	SET	1		
	32 A DP MCB 2 Nos, 10/6 Amps SP MCB-2 nos				
5.2	6 way CDB incoming 32 dp mcb 1no, out going 6amp sp mcb 4no.	SET	1		
5.3	UPS input output 15amp socket switch with indicator.	Nos	2		
Earthing					
1	Supply of materials and installation of copper plate earth electrode made out of 600 x 600 x 3.15 mm thick tinned copper plate alongwith one number 40x5mm tinned copper strip brazed with the plate buried vertically with top edge of plate at a depth of 1500 mm with arrangements for termination of copper strip of earth continuity conductor including cost of charcoal, salt, foreign soil, 20mm dia G.I. pipe for water pouring arrangements, brick masonry enclosure on top with removable cast iron cover complete with labour for excavation of pit in all kinds of soil & rock as required and as per direction of Engineer-in-charge.	Nos	1		
2	Supplying of all required materials laying under Ground /wall/floor making and termination and testing of No-8 Copper wire to be inside PVC Conduit pipe complete as per Directionof ENG.	Mtrs	4		

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SL.NO.	DESCRIPTION OF ITEMS	UNIT	QNTY	RATE	AMOUNT
	FITTING OF FIXTURES				
1.0	Supply, installation and testing of surface mounted LED fittings (1x15wt) square type with all accessories complete assembly of Philips as required as per direction of Engineer in charge.	Nos.	2		
2.0	Supply, Installation and testing of recess LED spot light fittings (6 wt) of round type with all accessories complete required as per direction of Engineer in charge.	Nos.	6		
TOTAL					
GRAND TOTAL (BRANCH+ATM)					

SUMMARY OF TENDER

	TYPE OF WORKS	TOTAL
1	INTERIOR FURNISHING WORK*	
2	ELECTRICAL & TELEPHONE WORKS *	
	TOTAL	
3	BUYBACK OF OLD DISPOSABLE ITEMS (BV of Rs. 60004.78 as on 31.03.2018 including GST)	
4	NET QUOTED VALUE (i.e. 1+2-3)	

* GST will be charge extra as applicable.