

Det/Est /ElecMay-06/2024/ 1184-2023

22.05.2024

Summary

## DETAIL OF ELECTRICAL WORKS FOR CANARA BANK SITUATED AT MEHRA BRANCH &amp; ATM , HARYANA

SR	DESCRIPTION	AMOUNT	GST %	GST AMNT	TOTAL AMOUNT
1	<b>TOTAL ELECTRICAL WORK</b>		<b>18%</b>		
SR.	ITEMS	UNIT	QTY	RATE	AMOUNT
1	Wiring for light points, fan points, bell points, sockets etc. with 1.5 Sq.mm PVC insulated, 1100 V grade copper conductor wires and 1.0 Sq mm copper earth wire in concealed/surface using PVC (Heavy)25mm dia conduits, accessories such as bends, tees, saddles, draw boxes, mounting boxes, inner plates, cover plates, ceiling rose etc. (including chase cutting where where ever required) and chromium plated brass screws/rowel plugs etc.. The conduits to be laid in ceiling with proper clamps/wall/floor and filling the chase with cement mortar and finish the same in original form/wooden partition/above false ceiling with proper clamps (wherever required as per standard specification. Complete including wiring L.T. Panel to related equipment etc. <b>NOTE:</b> i) Each circuit shall have independent earth wire. ii) Each point shall be earthed [for item no. "a" to "h" all mounting boxes, inner plates, modules, cover plates etc. shall be crabtree mega series, platinum range material (or equivalent of abb/m.k.) only]	-	0.00		

2	a) One light point controlled by one 6A modular one way switch i/c wiring and complete with necessary items.	No.	50.00		
3	b) A set of two light points controlled by one 6A modular one way switch. i/c wiring and complete with necessary items.	No.	5.00		
4	c) one light points controlled by UPS by one 6A modular one way switch. i/c wiring and complete with necessary items.	No.	5.00		
5	d) One wall fan point with 6A 3 pin socket controlled by one 6A modular one way switch. The switch should be at switch board level i/c wiring and complete with necessary items.	No.	8.00		
6	e) One Ceiling fan point controlled by one 6A modular one way switch. i/c wiring and complete with necessary items.	No.	2.00		
7	f) One exhaust fan point with ceiling rose controlled by one 6A modular one way switch i/c wiring and complete with necessary items.	No.	4.00		
8	g) One call bell wireless moduler at BM Cabin	No.	1.00		
9	h) One 6A 5Pin socket controlled by 6A modular one way switch i/c wiring and complete with necessary items.	No.	10.00		

10	<b>POWER POINTS:-</b> Same as serial no. 1, but wiring for 16A 6-Pin socket by using 4 sq mm PVC insulated 1100V grade copper conductor wire with independent 2.5sqmm earth wire from D.B. to first 1st. Socket and 1st socket to 2nd Socket with 2.5 sqmm and 1.5 sqmm earth wire including providing and fixing of 16A 6-Pin socket with 16A switch i/c wiring and complete with necessary items.				
11	Power point with 2.5sqmm copper conductor wires. i/c wiring and complete with necessary items.	No.	15.00		
12	A.C. POINTS: A.C. points i/c Box, MCB, Socket, Switch i/c 32 C MCB including wiring and complete with necessary items	No.	3.00		
13	<b>DISTRIBUTION BOARDS:</b> Supplying, installation, testing and commissioning of DOUBLE DOOR type distribution boards ORIGINAL FACTORY FABRICATED ONLY) of following specifications:				
14	A) 4-WAY TPN DB (POWER & AC DB) incomer :63a 4p outgoing: 32a sp mcb-6nos. 25a sp mcb-6 nos. (for split/window a.c. & power points)	No.	2.00		
15	B) 4-WAY TPN DB (LIGHT & FAN DB) incomer :40a 4p. mcb-1no. outgoing: 10a sp mcb-12nos.	No.	2.00		
16	C) Supplying & Fixing of 1 no. 40A DP MCB in 4 way SPN DB ( FOR UPS OUTPUT AT S/R)	No.	1.00		

17	D) 8-way SPN DB with 32A ELCB+D.P. 100mA sensitivity Controlling 6 nos. 10Amp. SP MCB and blanking plates. (FOR UPS OUTPUT AT HALL)	No.	2.00		
18	A. MAIN PANEL:- Designing, manufacturing, installation, testing and commissioning of cubical type MAIL PANEL made from 16 SWG CRCA sheet steel, "I" type base M.S. Channel for grouting on floor complete with MCCBs, CBs, Meters, C.T. etc. complete in all respect, insulated bus-bar with heat shrinkable PVC sleeve in suitable bus-bar chamber, wiring, name plates, danger plate, earth-bus etc.& comprising of compartments with hinged doors and rubber gasket, bus- bar chamber with bolted door and rubber gasket etc. The panel being of dust & vermin proof construction and to be painted with primer and smoke gray paint (minimum two coats) to look attractive. The panel should be comprising with the followings: Degree of Protection IP-54)	No.	1.00		

19	<p>INCOMER:</p> <p>100A HRC fuse base and bridge with HRC fuses Natural link for three phase four wire system- 1Set</p> <p>100A, 25KA, 4P MCCB -----1 NO.</p> <p>100A 4-P, ON LOAD change over switch- 1no..</p> <p>160A capacity copper bus-bar with heat shrinkable proper insulation with color coded.</p> <p>Digital ammeter and voltmeter with selector switches.</p> <p>R-Y-B phase indicators with 2A backup HRC fuse.</p> <p>OUTGOING:</p> <p>63A 4-P MCCB, 25KA,-----3Nos.</p> <p>63A 4-P ON LOAD change over switch (FOR SYSTEM ROOM/ATM)-----1No.</p> <p>40A 4-P MCCB, 25KA-----1 No.</p> <p>32A TPN MCB, 25KA-----1No.</p>				
20	i) S/F of LED 2 X2 Light fixture instead of equal Luminous Led light of Philips by the name of Green Square Led Luminaries on	No.	14.00		
21	iii) S/f of down light LED Luminaries with reflector (Havel's/Crompton/Philips) complete With cutting of false ceiling 15 watt LED.	No.	20.00		
22	iv) LED Strip Light (Cove Light)	Rft	150.00		
23	v) S/F of LED 4' wide ( patti ) Light fixtures	No.	12.00		
24	vi) S/F of LED 2' wide ( patti ) Light fixtures IN CASH CABIN	No.	1.00		
25	48"Ceiling fan	No.	2.00		
26	wall mounted FULLY METAL BODY fan	No.	8.00		

27	1. 18" Exhaust fans Commercial/ industrial with clamps, bolt/dash fastener by grouting on wall for Banking Hall.	No.	2.00		
28	2. 12" Exhaust fans with clamps, bolt/dash fastener by grouting on wall for Toilets.	No.	2.00		
29	<b>COMPUTER UPS POINT:-</b> a. s/f computer UPS point i/c Wiring with 1x2.5 sqmm + 1x1/5 sq mm PVC insulated 1100 V grade multistranded copper conductor wires in 2 mm thick PVC conduit from UPSDB to computer point. Each point to have 3 nos 6A -5 Pin modular type sockets, one 6A indicator at below the top of table/counter and controlled by one 16A modular switch at above the table top in wooden partition with all accessories, inner/outer plates, metal box etc. and to be fixed on wooden partitions/by grouting on wall etc. as per the requirement at site.	No.	6.00		
30	b. Supply & fixing of porcelain fuse 63 Amp with neutral	No.	4.00		
31	c. Cut out 100 AMP	No.	4.00		
32	d. UPS wiring (Main L.T. Panel to UPS ) 4sqmm copper	Mtrs	60.00		
33	<b>TELEPHONE POINT / DATA CABEL:-</b>				
34	Providing and Fixing of Patch Cord 2 Meter including complete with necessary items	No.	6.00		
35	Providing and Fixing of Patch Cord 1Meter including complete with necessary items	No.	6.00		
36	Providing and Fixing of I/O box /Data Points including Cat -6 Cable D Link complete with all respects	No.	6.00		

37	Providing and fixing 12U Data Rack:- With Tray, Cable Manager and 48port Switc Complete including necessary items. Note:- All products should be D-Link, Tp Link or equivalent International Quality.	No.	2.00		
38	TELEPHONE POINT:- Supply & fixing of GI / PVC box suitable for fixing of Telephone jack or 2 pin telephone socket as required with 2 pair of 0.63 mm Die annealed tinned copper conductor In PVC pipe for each telephone complete in all respect As per drawing and specification give by architect including of 1x8-port switch including telephone wiring etc. for connections.	No.	4.00		
39	a) Providing and fixing of following earth station as per IS:3043, with water pouring pipes, GI funnels, masonry brick chamber with CI cover, including excavation & refilling of pit after filling with charcoal, salt and sand, identification of pit as required. i) G.I. Earthing with 58 x 2M. earthing electrode With chemical as specified items instructed by the Architect. Including 50 mm dia GI pipe complete with all respects.	No.	3.00		

**Total Cost of Electrical Work**

Note-

**LIST OF ELECTRICAL MATERIAL**

	<b>PARTICULARS</b>	<b>MAKE OF MATERIAL</b>
1	Lights Fixtures 2x2 LED / Down Light / 4' Tube LED	Vipro / Havells / Philips
2	Switch, sockets, conceal box, plate/ ...	Vipro / Havells / Philips

3	MCCB Bus bar / TPN LDB, TPN MCB / DP MCB / SPN UPDB / MCB & DB/ELCB/RCCB	Legrang / L&T / Havells / Indoasian / Siemens
4	LT Cable / Telephone cable	Delton / Polycab / Havells R.R Kable
5	Light / circuit wiring / Cable ISI / PVC insulated wire ISI	Havells/ Polycab / Finolex / R.R. Kable
6	Floor conduits MMS Grade / PVC conduits & accessories	AKG / Polycab / Finolex
7	Music cum Public address system	Bosch / Sony / Ahuja
8	Low Fourteension switch fuse unit with HRC fuse	L&T, Siemens
9	Timer	Lea grand
10	Gland Flang type	Braco
11	Lugs / Wooden screw	Dorma, Hardwyn, Godrej
12	Telephone tag block	Krone Box
13	Wall / Ceiling / Exhaust fans	Crompton / Usha /Orient / Havells
14	CAT – 6 Cable / CAT-6 I/O	D-link / Microtek

#### PREAMBLE TO BOQ

#### NOTES:

1. In case of unavailability of any material of specific make an equivalent make can be used only after a written approval of Architect. The preference of make /brand of the material listed above will be decided by the Architect. The make/brand of any other item will be as mentioned in drawings issued by the Architect.
2. The contractor shall provide samples of all materials mentioned in the list of makes as required by the Architect. A written approved of these samples shall be sought prior to commencement of any work. Architect reserve the right to enquire the genuineness of any material used at site directly from the manufacturer/ Dealer.
3. Vendor chosen for work will abide by CVC Guidelines & I.B.A. norms.
4. wall mount fans should be of metallic body only and no plastic to be used.
5. only used BEE certified electrical appliances.