

BOQ for Electrical Renovation Works of 19 Nos Officers' Quarters (2BHK Flats) at Parashuram Apartments, SBI Officers Quaters, Mangaluru

Sl.No	Description	Unit	Qty	Rate	Amount
PART - A					
A.	DISTRIBUTION BOARDS				
1	Supply, installation, testing and commissioning of M.V. panels and switch gears suitable for 415V, 3 phase, 4 wire, 50Hz power distribution system. The panel shall be free standing Wall / floor mounting type 14G/16G sheet steel enclosed, flush front with single aluminium bus bars and separate earth bus to be provided through out the length of the panel. The incoming and out going feeders breakers, changer over switches, fuses indicating lamps shall be accomadated in a modular multitier arrangement. Minimum clearance of 400mm shall be provided from the floor level to the bottom most termination point adequate size cable alley and bus bar chamber shall be provided ,all round the panel and it shall be connected through solid bus bars. Flexible cable links are not acceptable .				
a.	16 WAY SPN MCB Double Door DB				
	Incomer:				
	1 No. 32A MCB + 32 DP, RCCB				
	Outgoing:				
	3A SP MCB - B- series - 4nos				
	16A SP MCB C- series - 4 nos	Set	1		-
					-
b.	2WAY SPN MCB DB/ ENCLOSURE				-
	Supply and installation of 32 A DP MCB in suitable metallic enclosure near BESCOM Meter Cubicle.	Set	1		-
B.	WIRING SYSTEM				
	Supply & Wiring for Lights, Ceiling fans, exhaust fan and 6A socket outlets using 3 x 1.5 sqmm flexible copper, 1100 volts grade PVC insulated FRLS wires drawn through 2mm thick, suitable size FR PVC conduit in concealed manner using necessary conduit accessories like junction boxes, Switch boxes, modular double plate and inner plate shall be of metal, bends, collars, clamps, ceiling roses, 6A/16A switches, Fan regulator and hook boxes, etc., and shall be flush mounted in brick wall or in the built up furnitures or on the surface of wall for surface installation as required. The rate for point wiring shall include the wiring from first point (light/switch) and then looping between lights/fans/6A socket outlets etc., Also the rate shall include earthing of each light, fan outlet boxes, switch control boxes, 6A sockets. (switches & sockets shall be of Legrand Myrius make /equivalent). The rate shall also include cost of civil works involved in fixing of boxes, replastering of walls chased. All the switch / sockets shall have stickers for identification				
2	Single light point controlled by a 6A SP switch.	Nos	22		-
3	Two-way point controlled by 6A switch for bed rooms	Nos	4		-
4	Ceiling Fan Point with Regulator	Nos	4		-
5	Exhaust fan point (Single phase) controlled by a 6A SP switch and ceiling rose/plug socket near the exhaust fan.	Nos	3		-

6	Supply and wiring for call bell point with 3 x 1.5sqmm PVC insulated copper conductor FRLS wires in 20mm dia FR PVC conduit, including providing bell push with outlet box, inter-connection to the lighting circuit for power supply. including (Ding - Dong) calling Bell	Nos	1		-
C	POWER WIRING / SUB MAINS :				-
	Supply & Drawing power wiring circuit /sub mains using flexible, copper conductor, FRLS-h wires of 1100V grade, PVC insulated wires drawn in existing conduits. All circuits starting from the respected db should have ferrulling arrangements.				-
7	3 x 2.5 sqmm Copper Circuit Wiring	Rmtr.	200		-
8	3 x 4.0 sqmm Copper Circuit Wiring	Rmtr.	180		-
9	3 x 6.0 sqmm Copper Circuit Wiring	Rmtr.	30		-
	PVC CONDUITS:Supply and Fixing of following sizes of FRLS PVC conduit along with the accessories in surface in ceiling/ recess in walls, flooring including cutting the wall / floor etc., and making good the same in case of recessed conduit as required.				
10	32mm dia. Conduit (Medium)	m	40		-
11	25mm dia. Conduit (Medium)	m	60		-
12	20mm dia. Conduit (Medium)	m	70		-
					-
13	CABLE LAYING AND TERMINATIONS: Supply, laying and dressing of the following size of 1.1 KV grade XLPE insulated armoured cable with				
a	3x6 Sq.mm YWY Copper armoured cable for mains supply	m	30		-
b	Termination for 3x6 sqmm YWY cable	nos	2		-
D.	POWER RECEPTACLES				-
	DOMESTIC TYPE:				-
	Supply & fixing of 3/5 pin, commercial combination type socket outlet with indicator mounted on a outlet box with necessary interconnection. The box shall be flush mounted in brick/stone wall (Metal box). The switches shall be of modular double plate type with metal base plate(legrand Lincus make / equivalent). The rate shall also include cost of civil works involved in fixing of boxes, replastering of walls chased. All the switch / sockets shall be labelled.				-
	RAW POWER SOCKET				-
14	6A socket outlet controlled by 6A SP Switch for Dependent Point (excluding box)	Nos.	8		-
15	6A socket outlet controlled by 6A SP Switch	Nos.	4		-
16	2 Nos. 6A socket outlet controlled by 2 Nos. 6A SP Switch	Nos.	3		-
17	1 Nos. 16A socket outlet controlled by 1 Nos. 16A SP Switch and 1nos of 6A socket outlet controlled by 6A switch.	Nos	1		-
18	16A socket outlet controlled by 1 Nos. 16A SP Switch	Nos.	5		-
19	25A, socket outlet for Geyser /AC Point	Nos.	4		-
20	20A, DP switch	Nos.	4		-
21	3 Nos. 6A socket outlet controlled by 1 Nos. 16A SP Switch with indicator	Nos.	1		-
22	UPS point - 25A socket + 25A SP Switch including up to 1.5m 3Cx4sqmm flexible Cu cable with suitable 3 pin plug top.	Set	1		-
E	SUPPLY AND INSTALLATION OF LIGHT & FAN FIXTURES				-
	Supply, installation, testing and commissioning of following type light and fan fixtures with all necessary fixing accessories as required. The efficacy of the LED lamp shall be not less than 100lm/Watt				-

23	1 x 20W, 4000K, 4 Feet LED tube, Surface/suspension light fixture of Battern Fitting type similar to Wipro make/equivalent. (Metal Body)	Nos.	6		-
24	1 x 12W, 4000K, 2 Feet LED tube, Surface/suspension light fixture of Battern Fitting similar to Wipro make	Nos.	2		-
25	~6W, 4000K, 2 Feet LED tube, Surface/suspension light fixture of Battern Fitting similar to Wipro make	Nos.	3		-
26	~3 Watt LED Surface mount light (for Balconey/ passage)	Nos.	2		-
27	~5 Watt LED Surface mount light (for Balconey/ passage)	Nos.	6		-
28	9~10 Watt LED Surface mount light (for Balconey/ passage)	Nos.	3		-
29	Wall mounted fixture- with 9W LED (base amount 650~750)	Nos.	5		-
30	9/12 Watt LED Bulb Include Angle/Battern Holder Crompton make/equivalent.	Nos.	2		-
31	Skirting light 3 module (legrand Lincus)	Nos	2		-
32	Supply and fixing of 1200mm sweep ceiling fan , shall be of 5star rated. (Regulator operated)	Nos.	4		-
33	Supply and fixing of 225mm dia. single phase. exhaust fan with necessary angle iron bracket.(with auto shutters) (Crompton/ Almonard/ Havels)	Nos.	3		-
34	Supply and Installation of 25 Ltr 5 Star Rated Geyser Raccold make/equivalent.	Nos	2		-
35	Calling Bell	Nos	1		-
F	EARTHING AND LIGHTING PROTECTION and cable tray				-
36	Supply and providing ISI pipe earthing as per IS 3043 with 2.5m long 40mm dia B class G.I. pipe providing GI clamp at the top of the GI pipe test joint, filling around the GI pipe at the radius of 15cm with homogeneous mixture of charcoal, common salt and river sand up to height of 2.5m from the bottom and the rest of the portion with excavated soil, providing brick work masonries, plastering, fixing cast iron cover of 30x30cm size etc. complete.	Set	1		-
37	EARTH CONDUCTORS Supply and laying of the following size of bare copper conductor along with above cables, for interconnections between panels, DBs, change over switches etc.and also for interconnections between earth pits. i) No.10 SWG	m	35		-
38	Supply and providing tinned copper earth bench using 25 x 3 mm copper strip (25 Cm in length)	Set	1		-
39	CABLE TRAY : Supply and installation of medium duty GI perforated type cable tray with GI cover of following size. (Rate shall be inclusive of all bends supports,etc. And supports to be not more than 1000mm apart)				
40	i) 500mmx50mm(WxH)	m	5		-
G	Buy back of old items - 4-ceiling fans, exhaust fans 2~3 nos,, 5-6 light fixtures, DBs etc (deduct) (each flat)	L.S	-1		-
Total for one flat (P)				₹	-
Total for Nineteen flats (Px19) (Q)				₹	-
All rates quoted shall be excluding GST					