

UNIVERSITY OF KERALA

ENGINEERING UNIT, KARIAVATTOM

TENDER SCHEDULE FOR THE ELECTRICAL WORKS IN THE DEPARTMENT OF SANSKRIT AT KARIAVATTOM CAMPUS UTILIZING RUSA FUNDS

Sl No	Qty	Unit	Description of Item	unit	Rate	Rate in words	Amount
1			Supply and wiring points according to IS 732-1989 using rigid PVC conduit of minimum size 20 mm with specials conforming to IS 9537 part III 1983 and with suitable size specials conforming to IS 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cm or concealed suitably and with 1.00 sq mm FR PVC insulated stranded single core copper conductor cable 650V grade, including <i>providing switch board main and continuous earthing with No.14 SWG bare copper</i> , required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, <i>modular type front plates (white)</i> etc. up to and including 6A modular type SP switches and making good the surface of wall, colour washing etc. complete. All the terminations in the switch boards and DB's shall be tinned and the wires shall be drawn and fixed along the periphery of the box using suitable ties, tie mounts etc as required. <i>(Group B/ RoHS compliant modular accessories)</i> .				
1.1	32	nos	Single control light point with 6A, 3 plate ceiling rose	E	841.00	Rs.Eight hundred & forty one only	26,912.00
1.2	3	nos	Single control light point without ceiling rose	E	823.00	Rs.Eight hundred & twenty three one only	2,469.00

1.3	11	nos	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator.	E	1498.00	Rs.One thousand four hundred & ninety eight only	16,478.00
1.4	4	nos	Combined plug point with 6 A, 5 pin plug socket controlled by 6 A switch in the same switch board as that of light points.	E	421.00	Rs.Four hundred & twenty one only	1,684.00
2			<i>Supply</i> , conveyance, installation, testing and commissioning the light fittings of following types made of .5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing <i>ball and socket arrangements</i> on PVC round block, <i>suspension down rod of 19mm dia MS conduit up to 2x30cm</i> length including painting and wiring the down rod with 16/0.20mm 3 core round copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connections etc. a required.				
2.1		nos	1x28wT5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant,high lumen tube .	E	1915.00	Rs.One thousand nine hundred & fifteen only	15,320.00
	8						
3			<i>Supply</i> , conveyance installation testing and commissioning the light fittings of following types made of CRCA with 0.5mm thickness complete with all accessories and lamps etc. directly on wall or ceiling with PVC <i>round block</i> neatly painted to suit the fitting and giving connection with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS and giving connections as required.				

3.1	3	nos	1x28w T5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, high lumen tube .	E	1717.00	Rs. One thousand seven hundred & seventeen only	5,151.00
4	2	m	Supplying and providing <i>extra H.G conduit down rod of 19 mm dia 2 x 1.00 m</i> long with 16/0.20 mm 3 core copper conductor flex wire conforming to relevant ISS or with the extended original wiring and giving connection etc. as required.	m	198.00	Rs. One hundred & ninety eight only	396.00
5	3	nos	Supply and fixing angle / straight brass lined skirt type, <i>bakelite batten holder</i> without shade and giving connection etc as required	E	63.00	Rs. Sixty three only	189.00
6			Supply and providing the following types and power rated <i>lamps</i> in the existing fittings as required				
6.1	3	nos	Normal size 14 W BC / ES retrofit CFL	E	167.00	Rs. One hundred & sixty seven only	501.00
7			<i>Supply</i> , conveyance, installation, testing and commissioning of ceiling fans of the following sizes using standard accessories <i>excluding resistance type regulator</i> , wiring the down rod with 16/0.20mm PVC insulated and PVC sheathed 650/1100V grade 3 core round copper conductor flex wire or with extended original wiring etc. as required.				
7.1	2	nos	1200 mm sweep - 5 star rated	E	1853.00	Rs. One thousand eighty hundred & fifty three only	3,706.00
8	2	nos	<i>Charges for cutting holes</i> suitable for accommodating <i>exhaust fans</i> of sizes <i>up to 305 mm sweep</i> including plastering, colour washing etc. as required.	E	294.00	Rs. Two hundred & ninety four only	588.00

9			<i>Supply, conveyance, installation, testing and commissioning</i> of the following sizes of <i>exhaust fans</i> in the existing opening, fixing necessary bolt and nuts, making good the damages etc. as required including giving connections with required length of 24/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming to relevant ISS.				
9.1	2	nos	200 mm, single phase, light duty exhaust fan in plastic body with self opening louvers	E	1538.00	Rs.One thousand five hundred & thirty eight only	3,076.00
10			Supply and fixing the following sizes of <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>on surface</i> including making good the damages etc as required.				
10.1	120	m	20 mm dia light gauge	m	83.00	Rs.Eighty three only	9,960.00
11			Supply and drawing 650/1100 V grade <i>PVC insulated stranded single core copper conductor cables</i> conforming to IS 694 part I 1990 in the existing surface / recess conduit as required including giving necessary connections of the following sizes.				
11.1	80	m	1.50 sq mm 1 run	m	45.00	Rs.Forty five only	3,600.00
11.2	15	m	2.50 sq mm 1 run	m	55.00	Rs.Fifty five only	825.00
11.3	80	m	2.50 sq mm 2 run	m	81.00	Rs.Eighty one only	6,480.00
11.4	15	m	4.00 sq mm 2 run	m	106.00	Rs.One hundred & six only	1,590.00

12			Supply & Fixing the following types/ sizes of boxes suitable for modular accessories in surface/ recess including making good the damages, colour washing etc as required (<i>Group B/ RoHS compliant</i>)				
12.1	8	nos	8 module metal box in recess	E	232.00	Rs.Two hundred & thirty two only	1,856.00
13			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (<i>Group B/ RoHS compliant</i>)				
13.1	8	nos	8 module white/ off-white	E	187.00	Rs.One hundred & eighty	1,496.00
14			Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (<i>Group B RoHS compliant</i>)				
14.1	8	nos	6 A SP 1 way switch	E	119.00	Rs.One hundred & nineteen only	952.00
14.2	8	nos	16 A SP 1 way switch	E	161.00	Rs.One hundred & sixty one only	1,288.00
14.3	16	nos	6A 3 pin shuttered socket	E	157.00	Rs.One hundred & fifty seven only	2,512.00
14.4	8	nos	6/16 A socket	E	223.00	Rs.Two hundred & ninety four only	1,784.00
15			Supply and installation of sheet steel, phosphatised and painted, dust and vermin proof enclosure of MCB DB including copper /brass bus bar, neutral link, earth bus and DIN rail suitable for fixing MCB/ isolator etc. fixed on wall using suitable anchor bolts or fixed in recess including cutting hole on the wall , making good the damages, colour washing etc. as required				

15.1	1	No.	12 way single phase double cover (IP 42/43)	E	1899.00	Rs.One thousand eight hundred & ninety nine only	1,899.00
16			Supply and installation of the following <i>accessories</i> suitable for 50 Hz , AC supply conforming to IS 8828-1995/ IEC 60898 of the following current ratings in the existing enclosure and giving connections as required				
16.1	1	nos	40 A double pole mini break isolator	E	356.00	Rs.Three hundred & fifty six only	356.00
16.2	1	nos	40 A, 2 pole, 30 mA RCCB	E	2357.00	Rs.Two thousand three	2,357.00
16.3	9	nos	6-32A(C curve)	E	219.00	Rs.Two hundred & nineteen only	1,971.00
17	5	nos	Supply and installation of surface mounded 15W LED light on ceiling using suitable sizes steel screws cup washers and giving connections etc as required	E	1614.00	Rs.One thousand six hundred & fourteen only	8,070.00
TOTAL						Rs.	123,466.00

PAC Rs.1,23,466/- (Rupees One Lakh Twenty Three thousand Four hundred & Sixty six only)

I/We agreed to execute the work.

1.% below the estimate rate.

2. % above the estimate rate.

3. At the estimate rate.

Sd/-

CONTRACTOR

UNIVERSITY ENGINEER