

UNIVERSITY OF KERALA

ENGINEERING UNIT, KARIAVATTOM

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

Sl No	Qty	Unit	Description of Item	unit	Rate	Rate in words	Amount
ELECTRICAL WORKS							
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	35	Nos.	Single control light point with 6A, 3 plate ceiling rose	E	841.00	Rs. Eight hundred & forty one only	29,435.00
1.2	1	Nos.	Single control light point without ceiling rose	E	823.00	Rs. Eight hundred & twenty three only	823.00

1.3	14 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	20,972.00
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	5 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	9,575.00
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	5 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	8,585.00
4	1 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	198.00
5	1 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	63.00
6		Supply and providing the following types and power rated <i>lamps</i> in the existing fittings as required				
6.1	2 Nos.	Normal size 14 W BC / ES retrofit CFL	E	167.00	Rs. One hundred & sixty seven only	334.00
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	5 Nos.	1200 mm sweep - 5 star rated	E	1853.00	Rs. One thousand eight hundred & fifty three only	9,265.00

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	80	m	20 mm dia light gauge	m	83.00	Rs. Eighty three only	6,640.00
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	95	m	2.50 sq mm 2 run	m	81.00	Rs. Eighty one only	7,695.00
11.3	15	m	4.00 sq mm 4 run	m	184.00	Rs. One hundred & eighty four only	2,760.00
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>	m			
12.1	1	Nos.	3 module metal box in recess	E	180.00	Rs. One hundred & eighty only	180.00
12.2	6	Nos.	8 module metal box in recess	E	232.00	Rs. Two hundred & thirty two only	1,392.00
13			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. <i>(Group B/ RoHS compliant)</i>				
13.1	1	Nos.	3 module white/ off-white	E	116.00	Rs. One hundred & sixteen only	116.00
13.2	6	Nos.	8 module white/ off-white	E	187.00	Rs. One hundred & eighty seven only	1,122.00
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>	E			
14.1	6	Nos.	6 A SP 1 way switch	E	119.00	Rs. One hundred & nineteen only	714.00
14.2	7	Nos.	16 A SP 1 way switch	E	161.00	Rs. One hundred & sixty one only	1,127.00

14.3	12	Nos.	6A 3 pin shuttered socket	E	157.00	Rs. One hundred & fifty seven only	1,884.00
14.4	7	Nos.	6/16 A socket		223.00	Rs. Two hundred & twenty three only	1,561.00
15	1	Nos.	6 way (8+18) - double cover TPN vertical DB with provision for fixing 4P MCB / Isolator/ RCCB/ RCBO as incomer and SP/ TP MCB as outgoing (IP 42/43)	E	8960.00	Rs. Eight thousand nine hundred & sixty only	8,960.00
16	1	Nos.	40 A four pole mini break isolator	E	716.00	Rs. Seven hundred & sixteen only	716.00
17	12	Nos.	6-32A(C curve)	E	219.00	Rs. Two hundred & nineteen only	2,628.00
18	2	Nos.	6 A to 25 A, 10 kA, TP MCB (C curve)	E	919.00	Rs. Nine hundred & nineteen only	1,838.00
19	7	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	11,298.00
TOTAL						Rs.	138,829.00

PAC Rs.1,38,829/- (Rupees One Lakh Thirty Eight Thousand Eight Hundred and Twenty Nine 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