

**UNIVERSITY OF KERALA
ENGINEERING UNIT**

Tender schedule for the Electrical works in the Dept.of Geology at Kariavattom campus utilizing RUSA funds.

Sl. No	Qty	Specification	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	2 nos	Single control light point without ceiling rose	E	823.00	Rs.Eight hundred & twenty three only	1646.00

1.2	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	1684.00
2			Supply , 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	8	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	15320.00
3	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

4			<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.				
a	3 nos		305 mm, single phase, heavy duty, 1400 rpm exhaust fan in metal frame	E	2629.00	Rs.Two thousand six hundred & twenty nine only	7887.00
5			<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.				
a	4 nos		1200 mm sweep - 5 star rated	E	1853.00	Rs.One thousand eight hundred & fifty three only	7412.00
6			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.				
6.1	100 m		20 mm dia light gauge	m	83.00	Rs.Eighty three only	8300.00

7			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.				
7.1	120	m	1.50 sq mm 1 run	m	45.00	Rs.Forty five only	5400.00
7.2	120	m	2.50 sq mm 2 run	m	81.00	Rs.Eighty one only	9720.00
8			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>)				
8.1	12	nos	8 module metal box in recess	E	232.00	Rs.Two hundred & thirty two only	2784.00
8.2	5	nos	6 module metal box in recess	E	198.00	Rs.One hundred & ninety eight only	990.00
8.3	5	nos	9 module metal box in recess	E	239.00	Rs.Two hundred & thirty nine only	1195.00
8.4	4	nos	12 module metal box in recess	E	354.00	Rs.Three hundred & fifty four only	1416.00
9			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (<i>Group B/ RoHS compliant</i>)				
9.1	9	nos	8 module white/ off-white	E	187.00	Rs.One hundred & eighty seven only	1683.00
9.2	8	nos	6 module white/ off-white	E	152.00	Rs.One hundred & fifty two only	1216.00
9.3	5	nos	9 module white/ off-white	E	195.00	Rs.One hundred & ninety five only	975.00
9.4	4	nos	12 module white/ off-white	E	251.00	Rs.Two hundred & fifty one only	1004.00

10			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>)				
a	42	nos	6 A SP 1 way switch	E	119.00	Rs.One hundred & nineteen only	4998.00
b	19	nos	16 A SP 1 way switch	E	161.00	Rs.One hundred & sixty one only	3059.00
c	41	nos	6A 3 pin shuttered socket	E	157.00	Rs.One hundred & fifty seven only	6437.00
d	19	nos	6/16 A socket	E	223.00	Rs.Two hundred & twenty three only	4237.00
e	8	nos	100 W Step type fan regulator - 2 M	E	522.00	Rs.Five hundred & twenty two only	4176.00
			Total				91935.00

PAC Rs.91,935/- (Rs.Ninety one thousand nine hundred & thirty five only)

I/We agreed to execute the work.

1.% below the estimate rate.

2. % above the estimate rate.

3. At the estimate rate.

CONTRACTOR

Sd/-

UNIVERSITY ENGINEER