

University of Kerala
Engineering Unit, Kariavattom
Tender Schedule for the Electrical works for furnishing the faculty room and lab at Assistant Professor's room at Department of Zoology at Kariavattom Campus.

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> .				
a	4	nos	Single control light point without ceiling rose	E	823.00	Rs. Eight hundred & twenty three only	3,292.00
b	2	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	2,996.00
c	1	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	421.00

2			Supply, conveyance, installation, testing and commissioning the light fittings of following types made of CRCA sheet .5mm thick with all accessories and lamps etc. suspended from ceiling <i>using 2 nos steel chain (16 SWG or nearest available size) of length not exceeding 30 cm</i> properly hooked to steel hooks anchored to the ceiling and giving connections with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connection etc. as required.				
a			Recess mounting mirror optic luminaire with mat finish ribbed aluminium loures fluorescent tube light fitting complete with lamp, APF electronic ballast suitable for continuous operation with THD less than 10%, power factor greater than 0.98, high lumen tube, duly wired up for use on 230 Volt A/c supply.				
b	7 nos		2x36W fluorescent tubelight(T8)	E	3330.00	Rs. Three thousand three hundred & thirty only	23,310.00
3	5 m		Supplying and providing <i>extra steel chain</i> (16 SWG) <i>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	70.00	Rs. Seventy only	350.00
4			Supply, 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	7,412.00
5	4 nos		Supply and installation of suitable size <i>MS rod type fan clamp</i> as per IS 732 as required.	E	124.00	Rs. One hundred & twenty four only	496.00

6	4	m	Supply and providing every <i>additional length of down rod</i> of suitable size heavy gauge GI / WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required.	m	115.00	Rs. One hundred & fifteen only	460.00
7			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.				
a	80	m	20 mm dia light gauge	m	83.00	Rs. Eighty three only	6,640.00
8			Supplying and clamping the following sizes of <i>corrugated PVC flexible conduit</i> with necessary compression gland with locking ring and check nut at termination pointed using suitable size GI / painted MS saddles spacing not exceeding 60 cms on surface including making good the damages, colour washing etc. as required.				
a	15	m	16 mm dia	m	48.00	Rs. Forty eight only	720.00
9			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				
a	20	m	1.00 sq mm 3 run	m	62.00	Rs. Sixty two only	1,240.00
b	50	m	1.50 sq mm 1 run	m	45.00	Rs. Forty five only	2,250.00
c	40	m	1.50 sq mm 3 run	m	77.00	Rs. Seventy seven only	3,080.00
d	50	m	2.50 sq mm 2 run	m	81.00	Rs. Eighty one only	4,050.00
10			Supply and fixing <i>SP & N metal case enclosure</i> with 2 pole and earth plug socket with pin suitable for incorporating , SP MCB (excluding cost of SP MCB) in surface/ recess including giving necessary connections, making good the damages etc. as required.				

a	1	nos	250V, 20A, 2 pole and earth	E	917.00	Rs. Nine hundred & seventeen only	917.00
11			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>				
a	2	nos	3 module metal box in recess	E	180.00	Rs. One hundred & eighty only	360.00
b	7	nos	10 module metal box in recess	E	330.00	Rs. Three hundred & thirty only	2,310.00
c	6	nos	8 module metal box in recess	E	232.00	Rs. Two hundred & thirty two only	1,392.00
12			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. <i>(Group B/ RoHS compliant)</i>				
a	2	nos	3 module white/ off-white	E	116.00	Rs. One hundred & sixteen only	232.00
b	6	nos	8 module white/ off-white	E	187.00	Rs. One hundred & eighty seven only	1,122.00
c	7	nos	10 module white/ off-white	E	216.00	Rs. Two hundred & sixteen only	1,512.00
13			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	12	nos	6 A SP 1 way switch	E	119.00	Rs. One hundred & nineteen only	1,428.00
b	24	nos	6A 3 pin shuttered socket	E	157.00	Rs. One hundred & fifty seven only	3,768.00
c	10	nos	16 A SP 1 way switch	E	161.00	Rs. One hundred & sixty one only	1,610.00
d	10	nos	6/16 A socket	E	223.00	Rs. Two hundred & twenty three only	2,230.00
e	5	nos	Blank plate 1 M	E	19.00	Rs. Nineteen only	95.00

14			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				
a	2	nos	6-32A(C curve)	E	219.00	Rs. Two hundred & nineteen only	438.00
15	9	nos	charges for dismantling the existing unservicable tubelight and ceilig fan etc conveyed to section store(6 tube light,3 ceilig fan)	E	12.00	Rs. Twelve only	108.00
			TOTAL				74,239.00

PAC Rs.74,239/- (Rs. Seventy four thousand two hundred & thirty nine only)

I/We Agree to execute the work.

1.% below the estimate rate.

2.% above the estimate rate.

3. At the estimate rate.

UNIVERSITY ENGINEER

CONTRACTOR