

UNIVERSITY OF KERALA

ENGINEERING UNIT, KARIAVATTOM

TENDER SCHEDULE FOR THE REWIRING TO THE EXISTING ELECTRICAL INSTALLATIONS OF ANIMAL HOUSE, DEPARTMENT OF BIO-CHEMISTRY AT KARIAVATTOM CAMPUS.

SI 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>				
a	41	Nos.	Single control light point with 6A, 3 plate ceiling rose	Nos.	841.00	Rupees Eight hundred and forty one only	34,481.00
b	6	Nos.	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator.	Nos.	1498.00	Rupees One thousand four hundred and ninety eight only	8,988.00
c	11	Nos.	Single control light point without ceiling rose	Nos.	823.00	Rupees Eight hundred and twenty three only	9,053.00

d	6	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.	Nos.	421.00	Rupees Four hundred and twenty one only	2,526.00
2			<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.				
a	10	Nos.	1x28w T5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, high lumen tube .	Nos.	1717.00	Rupees One thousand Seven hundred and seventeen only	17,170.00
3	11	Nos.	Supply and fixing angle / straight brass lined skirt type, <i>bakelite batten holder</i> without shade and giving connection etc as required	Nos.	63.00	Rupees Sixty three only	693.00
4			Supply and providing the following types and power rated <i>lamps</i> in the existing fittings as required				
a	11	Nos.	Dwarf size 14 W BC / ES / E14 retrofit CFL	Nos.	179.00	Rupees One hundred and Seventy nine only	1,969.00
5	3	Nos.	Supply and installation of suitable size <i>MS rod type fan clamp</i> as per IS 732 as required.	Nos.	124.00	Rupees One hundred and twenty four only	372.00
6			<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	2	Nos.	1200 mm sweep - 5 star rated	Nos.	1853.00	Rupees One thousand Eight hundred and fifty three only	3,706.00

7			<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	6	Nos.	200 mm, single phase, light duty exhaust fan in plastic body with self opening louvers	Nos.	1538.00	Rupees One thousand Five hundred and thirty eight only	9,228.00
8			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	Rupees Eighty three only	6,640.00
b	30	m	25 mm dia light gauge	m	95.00	Rupees Ninety five only	2,850.00
9			Supply and fixing the following sizes of <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>in recess</i> including cutting the wall and making good the damages etc as required.				
a	10	m	20 mm dia light gauge	m	120.00	Rupees One hundred and twenty only	1,200.00
b	10	m	25 mm dia light gauge	m	133.00	Rupees One hundred and thirty three only	1,330.00
10			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.				

a	120	m	1.50 sq mm 1 run	m	45.00	Rupees Forty five only	5,400.00
b	20	m	1.50 sq mm 2 run	m	61.00	Rupees Sixty one only'	1,220.00
c	30	m	2.50 sq mm 1 run	m	55.00	Rupees Fifty five only	1,650.00
d	110	m	2.50 sq mm 2 run	m	81.00	Rupees Eighty one only	8,910.00
e	20	m	2.50 sq mm 4 run	m	134.00	Rupees One hundred and thirty four only	2,680.00
f	30	m	4.00 sq mm 2 run	m	106.00	Rupees One hundred and six only	3,180.00
g	30	m	6.00 sqmm 4run	m	260.00	Rupees Two hundred and sixty only	7,800.00
h	30	m	4.00 sq mm 4 run	m	184.00	Rupees One hundred and eighty four only	5,520.00
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	16	Nos.	8 module moulded plastic box on surface	Nos.	233.00	Rupees Two hundred and thirty three only	3,728.00
12			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. <i>(Group B/ RoHS compliant)</i>				
a	16	Nos.	8 module white/ off-white	Nos.	187.00	Rupees One hundred and eighty seven only	2,992.00
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	16	Nos.	6 A SP 1 way switch	Nos.	119.00	Rupees One hundred and nineteen only	1,904.00
b	32	Nos.	6 A Universal socket	Nos.	147.00	Rupees One hundred and forty seven only	4,704.00
c	16	Nos.	16 A SP 1 way switch	Nos.	161.00	Rupees One hundred and sixty one only	2,576.00

d	16	Nos.	6/16 A socket	Nos.	223.00	Rupees Two hundred and twenty three only	3,568.00
14			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				
a	2	Nos.	4 way (8+12) - three phase double cover (IP 42/43)	Nos.	3329.00	Rupees Three thousand Three hundred and twenty nine only	6,658.00
b	1	No.	4 way (8+12) - 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)	Nos.	7739.00	Rupees Seven thousand Seven hundred and thirty nine only	7,739.00
15			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	1	No.	63 A four pole mini break isolator	Nos.	752.00	Rupees Seven hundred and fifty two only	752.00
b	2	Nos.	40 A four pole mini break isolator	Nos.	716.00	Rupees Seven hundred and sixteen only	1,432.00
c	2	Nos.	40 A, 4 pole, 30 mA RCCB	Nos.	2780.00	Rupees Two thousand Seven hundred and eighty only	5,560.00
d	1	No.	32 A, 10 kA, TP MCB (C curve)	Nos.	908.00	Rupees Nine hundred and eight only	908.00
e	1	Nos.	40 A, 10 kA, TP MCB (C curve)	Nos.	1369.00	Rupees One thousand Three hundred and sixty nine only	1,369.00
f	25	Nos.	6-32A(C curve)	Nos.	219.00	Rupees Two hundred and nineteen only	5,475.00

16	1	No.	Disamtlng the existing fan point,light point plug point etc and conveying to section store	Nos.	702.00	Rupees Seven hundred and two only	702.00	
TOTAL							Rs.	186,633.00

PAC Rs.1,86,633/- (Rupees One Lakh Eighty six thousand Six hundred and thirty three 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