

UNIVERSITY OF KERALA

ENGINEERING UNIT, KARIAVATTOM

TENDER SCHEDULE FOR THE ELECTRIFICATION WORKS FOR PROVIDING AIRCONDTIONERS & DEHUMIDIFIER IN THE MANUSCRIPT LIBRARY AT
KARIAVATTOM CAMPUS

SI No	Qty	Unit	Description of Item	unit	Rate	Rate in words	Amount
1			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	60	m	20 mm dia light gauge	m	83.00	Rupees Eighty three only	4,980.00
b	200	Nos.	32 mm dia light gauge	m	119.00	Rupees One hundred and Nineteen only	23,800.00
2			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	55	m	1.50 sq mm 1 run	m	45.00	Rupees Forty five only	2,475.00
b	12	m	1.50 sq mm 3 run	m	77.00	Rupees Seventy seven only	924.00
c	210	m	4.00 sq mm 6 run	m	270.00	Rupees Two hundred and seventy only	56,700.00
d	265	m	2.50 sq mm 2 run	m	81.00	Rupees Eighty one only	21,465.00
3			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	4	Nos.	3 module moulded plastic box on surface	E	194.00	Rupees One hundred and ninety four only	776.00
b	4	Nos.	3 module white/ off-white	E	116.00	Rupees One hundred and sixteen only	464.00
4			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	2	Nos.	6 A SP 1 way switch	E	119.00	Rupees One hundred and Nineteen only	238.00
b	2	Nos.	6A 3 pin shuttered socket	E	157.00	Rupees One hundred and fifty seven only	314.00
c	2	Nos.	16 A SP 1 way switch	E	161.00	Rupees One hundred and sixty one only	322.00
d	2	Nos.	6/16 A socket	E	223.00	Rupees Two hundred and twenty three only	446.00
5			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	6	Nos.	4 way single phase double cover (IP 42/43)	E	1397.00	Rupees One thousand Three hundred and ninety seven only	8,382.00
b	1	Nos.	8 way (8+24) - double cover TPN vertical DB with provision for fixing MCCB as incomer and SP/ TP MCB as outgoing (IP 42/43)	E	11310.00	Rupees Eleven thousand Three hundred and ten only	11,310.00
c	6	Nos.	40 A four pole mini break isolator	E	716.00	Rupees Seven hundred and sixteen only	4,296.00
d	6	Nos.	6 A to 32 A, 10 kA, SP MCB (D curve)	E	273.00	Rupees Two hundred and seventy three only	1,638.00
e	1	Nos.	80/ 100A, 35/36 kA (Ics=100%Icu), 3 pole, current limiting type MCCB with microprocessor based release with overload setting of 50 - 100% having adjustable OL & SC	E	9345.00	Rupees Nine thousand Three hundred and forty five only	9,345.00
f	6	Nos.	40 A, 10 kA, TP MCB (D curve)	E	1487.00	Rupees One thousand Four hundred and eighty seven only	8,922.00

6			Supply, laying and clamping of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of the following sizes using clamps noted along with the cables, spacing of clamps not exceeding 60cms, making good the damages , colour washing etc. as required.				
a	40	m	3.5 core 50 sq mm with factory made clamp	m	393.00	Rupees Three hundred and ninety three only	15,720.00
7			Supplying siemens / tropodur type nickel plated <i>Double compression brass cable gland</i> for PVC insulated and PVC sheathed armoured aluminium/ copper conductor cable 1.1 KV grade, and making end termination suitable for 2/ 3/ 3½/ 4 core cable of the following sizes as required.				
a	2	Nos.	50 sq mm	E	646.00	Rupees Six hundred and forty six only	1,292.00
8			Supplying and providing <i>earth clamps</i> for siemens/ tropodur type cable glands of suitable length and other dimensions noted along with each size of glands for the following sizes of cables as required.				
a	2	Nos.	25 sq - 95sq mm with 20 mm wide x 1.20 mm thick clip	E	27.00	Rupees Twenty seven only	54.00
9			Supply of superior quality <i>aluminium tubular cable socket</i> and making core termination of cables of the following sizes including crimping etc. as required.				
a	2	Nos.	25 sq mm	E	14.40	Rupees Fourteen and Paise forty only	28.80
b	6	Nos.	50 sq mm	E	19.00	Rupees Nineteen only	114.00

10	2	Nos.	Supply and providing <i>plate earthing</i> as per IS 3043 <i>with 600x600x6.30 mm GI/CI earth plate</i> , 20 mm GI watering pipe fixed to the earth plate with 20 x 3 mm GI clamps, GI funnel with weld mesh, filling required quantity of charcoal including construction of inspection chamber with a bed concrete of 1:4:8 PCC using 40 mm broken stone (10 cm thick), brick work in cement mortar 1:6, plastering the surface of brick masonry and the exposed surface of PCC bed with cement mortar 1:4, 12 mm thick, (the finished inside dimension shall be 300 x 300 x 300 mm) but excluding test joint, earth continuity conductor to the plate, and covering at the top. <i>(in hard soil)</i>	E	4102.00	Rupees Four thousand One hundred and two only	8,204.00
11			Supply and providing the following sizes of <i>cast iron gully trap with covering</i> at the top of the inspection chamber of earth pit as required				
a	2	Nos.	300 x 300 x 6 mm cast iron gully trap with covering	E	267.00	Rupees Two hundred and sixty seven only	534.00
12			Supply and providing <i>test joint for the earthing system</i> using 2 Nos of the following sizes of strips including cutting and bending to shape, drilling necessary holes and fixed to the watering pipe etc as required.				
a	0.6	m	2 x 25 x 3 mm tinned copper strip	m	598.00	Rupees Five hundred and ninety eight only	358.80
13			Supply and providing <i>earth lead from the test joint to the earth electrode</i> using the following sizes of conductors/ strips including cutting, drilling necessary holes (in case of strip) and fixing firmly with plate test joint etc as required.				
a	5	m	25 x 3 mm copper strip tinned at the points of contacts	m	483.00	Rupees Four hundred and eighty three only	2,415.00
14			Supply and drawing bare <i>earthing conductors</i> of the following sizes <i>along with wiring/ cables</i> and giving connection as required.				
a	10	m	4.75 mm copper conductor (6 SWG)	m	133.00	Rupees One hundred and thirty three only	1,330.00
15			Supply and laying bare <i>earthing conductors</i> of the following sizes <i>laid 0.6 m below ground level including excavating trench</i> of suitable size and refilling etc. as required <i>(in ordinary soil)</i> .				

a	40	m	4.75 mm copper conductor (6 SWG)	m	144.00	Rupees One hundred and forty four only	5,760.00
16			Supply and <i>clamping</i> the following sizes of <i>strips</i> on surface of wall/ parapet/ existing cable tray using clamps fabricated from 20 x 3 mm GI flat duly painted or heavy duty GI spacer saddles, spacing of clamps not exceeding 1m, making good the damages, colour washing etc. as required (<i>for horizontal run</i>).				
a	0.4	m	25 x 3 mm copper strip tinned at the points of contacts	m	530.00	Rupees Five hundred and thirty only	212.00
17			supply of superior quality <i>copper earth socket</i> for the following sizes of earth conductor including crimping etc. as required.				
a	10	Nos.	4.75 mm (6 SWG)	E	31.00	Rupees Thirty one only	310.00
18			Supply and providing the following sizes of <i>bolt and nut</i> with washers on the existing MS box / earth bus etc. as required including drilling necessary holes as required				
a	10	Nos.	25 x 3mm brass bolt & nut	E	17.00	Rupees Seventeen only	170.00
b	10	Nos.	25 x 6 mm brass bolt & nut	E	20.00	Rupees Twenty only	200.00
19			Supplying , threading , laying and jointing of the following sizes of 'B' class <i>GI pipe</i> with all required accessories <i>in ground in the existing trench</i> as protective covering to earth leads.				
a	15	m	20 mm dia	m	114.00	Rupees One hundred and fourteen only	1,710.00

20	2	Nos.	Supply of 450mm High Speed pedestal fans complete with all accessories (Bajaj/Crompton/Havell,s	E	5800.00	Rupees Five thousand and Eight hundred only	11,600.00
21	6	Nos.	Supply and providing 5 Kg. Dry Chemical Powder type Fire Extinguisher with hose and clamps including fixing it to wall as required.	E	2324.00	Rupees Two thousand Three hundred and twenty four only	13,944.00
TOTAL Rs.							2,20,753.60

PAC Rs.2,20,754/- (Rupees Two Lakh Twenty thousand Seven hundred and fifty four only)

I/We agreed to execute the work. 1.% below the estimate rate.

2. % above the estimate rate. 3. At the estimate rate.

CONTRACTOR

UNIVERSITY ENGINEER