

UNIVERSITY OF KERALA

ENGINEERING UNIT

Tender Schedule for Electrification Works in the Kerala University Staff Housing Coperative Society Building 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> .				
1.1	1	no	Single control light point without ceiling rose	E	823.00	Rs.Eight hundred & twenty three only	823.00

1.2	1	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	1498.00
1.3	11	nos	Single control light point with 6A, 3 plate ceiling rose	E	841.00	Rs.Eight hundred & forty one only	9251.00
1.4	3	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	1263.00
2			<i>Supply,</i> conveyance installation testing and commissioning tube 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.				
2.1	1	nos	1200mm 20 to 22 W LED lamp with suitable for single tubeT8 box type fixture (Philips/ Crompton/Havels/Wipro)	E	1403.00	Rs.One thousand four hundred & Three only	1403.00
3	10	nos	Supply of 18 W Recess mounted Square/Round shaped LED down light fittings complete(Crompton/ Havels/ WIPRO/ Philips)	E	1788.00	Rs.One thousand Seven hundred & Eighty Eight only	17880.00
4	1	no	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
5			Supply and providing the following types and power rated <i>lamps</i> in the existing fittings as required				
5.1	1	no	Normal size 15 W BC / ES retrofit CFL	E	167.00	Rs.One hundred & Sixty Seven only	167.00
6			<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.				

6.1	1	no	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	1538.00
7			<i>Supply</i> , conveyance, installation, testing and commissioning <i>wall mounting fan</i> of the following sizes using mounting brackets supplied along with the fan and giving connection with existing wire.				
7.1	3	nos	400 mm sweep	E	1746.00	Rs.One thousand Seven hundred & Forty Six only	5238.00
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.				
8.1	75	m	20 mm dia light gauge	m	83.00	Rs.Eighty Three only	6225.00
8.2	8	m	32 mm dia light gauge	m	119.00	Rs.One hundred & Nineteen only	952.00
9			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.				
9.1	3	m	20 mm dia	m	52.00	Rs.Fifty Two only	156.00
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.				
10.1	20	m	1.50 sq mm 3 run	m	77.00	Rs.Seventy Seven only	1540.00
10.2	18	m	1.50 sq mm 1 run	m	45.00	Rs.Forty five only	810.00
11.3	40	m	2.50 sq mm 1 run	m	55.00	Rs.Fifty five only	2200.00
11.4	18	m	2.50 sq mm 2 run	m	81.00	Rs.Eighty one only	1458.00
11,5	39	m	4.00 sq mm 2 run	m	106.00	Rs.One hundred & six only	4134.00
11.6	2	m	4.00 sq mm 4 run	Mtr	184.00	Rs.One hundred & Eighty Four only	368.00
11.7	10	m	4.00 sq mm 1 run	m	68.00	Rs.Sixty Eight only	680.00

11.8	10	m	6.00 sqmm 4run	m	260.00	Rs.Two hundred & Sixty only	2600.00
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>				
12.1	4	nos	2 module metal box in recess	E	165.00	Rs.One hundred & Sixty Five only	660.00
12.2	3	nos	8 module moulded plastic box on surface	E	233.00	Rupees Two Hundred and Thirty Three Only	699.00
12.3	5	nos	3 module metal box in recess	E	180.00	Rupees One Hundred and Eighty Only	900.00
13			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. <i>(Group B/ RoHS compliant)</i>				
13.1	4	nos	2 module white/ off-white	E	101.00	Rupees One Hundred and One Only	404.00
13.2	3	nos	8 module white/ off-white	E	187.00	Rupees One Hundred and Eighty Seven Only	561.00
13.3	5	nos	3 module white/ off-white	E	116.00	Rupees One Hundred and Sixteen Only	580.00
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>				
14.1	7	nos	6 A SP 1 way switch	E	119.00	Rupees One Hundred and Nineteen Only	833.00
14.2	4	nos	16 A SP 1 way switch	E	161.00	Rupees One Hundred and Sixty One Only	644.00
14.3	10	nos	6A 3 pin shuttered socket	E	157.00	Rupees One Hundred and Fifty Seven Only	1570.00
14.4	4	nos	6/16 A socket	E	223.00	Rupees Two Hundred and Twenty Three Only	892.00
14.5	2	nos	32 A DP switch with indicator	E	316.00	Rupees Three Hundred and Sixteen Only	632.00
14.6	2	nos	25A socket	E	223.00	Rupees Two Hundred and Twenty Three Only	446.00
15			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				

15.1	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)	E	7739.00	Rupees SevenThousand Seven Hundred and Thirty Nine Only	7739.00
16			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				
16.1	1	no	40 A four pole mini break isolator	E	716.00	Rupees Seven Hundred and Sixteen Only	716.00
16.2	1	no	40 A, 4 pole, 30 mA RCCB	E	2780.00	Rupees TwoThousand Seven Hundred and Eighty Only	2780.00
16.3	6	nos	6-32A(C curve) - SP MCB	E	219.00	Rs.Two hundred & nineteen only	1314.00
17			Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in the existing RCC/ HUME / STONE WARE/ GI/ DWC pipe as required.				
17.1	20	m	4 core 16 sq mm	m	213.00	Rs.Two hundred & Thirteen only	4260.00
18			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.				
18.1	5	m	4 core 16 sq mm with factory made clamp	m	231.00	Rs.Two hundred & Thirty One only	1155.00
19			Supply & laying of DWC pipe in ordinary soil 0.75m below ground level including excavation				
19.1	20	m	50 / 38 mm or nearest size	m	139.00	Rupees One Hundred and Thirty Nine Only	2780.00
20			<i>Supply and clamping</i> the following sizes of <i>PVC pipe</i> on wall with all required accessories including cutting and making good the walls, colour washing etc. as required as protective covering to cables.				0.00
20.1	3	m	40 mm dia PVC pipe (8 Kgf / cm ²)	m	71.00	Rs.Seventy One only	213.00

22			Supplying siemens / tropodur type nickel plated Double compression brass cable gland 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.				
22.1	2	nos	16 sq mm	E	319.00	Rupees Three Hundred and Nineteen Only	638.00
23			Supply of superior quality aluminium tubular cable socket and making core termination of cables of the following sizes including crimping etc. as required.				
23.1	7	nos	16 sq mm	E	13.70	Rupees Thirteen and Ps Seventy Only	95.90
31			Supply and fixing the following accessories in the existing meter board and giving connections etc.				
31.1	6	nos	63 A, 415 V Backelite fuse fitting	E	251.00	Rupees Two Hundred and Fifty One Only	1506.00
31.2	2	nos	63 A, 415 V, 2 way neutral link mounted on DMC/ SMC base.	E	183.00	Rupees One Hundred and Eighty Three Only	366.00
34	1	no	10 - 40 A direct reading, 3 phase 4 wire KWh meter of accuracy class 1	E	3900.00	Rs.Three Thousand Nine Hundred only	3900
			Toal				96530.90

PAC Rs.96,531/- (Rupees Ninety Six Thousand Five hundred & Thirty One only)

1. I/We agreed to execute the work.
2.% below the estimate rate.
2.% above the estimate rate.
3. At the estimate rate.

CONTRACTOR

sd/-
UNIVERSITY ENGINEER