

UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM

Tender Schedule for Electrical works in the Department of journalism & Mass Communication at Kariavattom Campus utilizing RUSA Funds

Sl. No	Qty	Specification	Unit	Rate	Rate in words	Amount
		PART I				
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 with 6A, 3 plate ceiling rose	E	841.00	Rs.Eight hundred & forty one only	1682.00

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	6	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	11490.00
3			Supply, conveyance, installation, testing and commissioning of 2x28 W T5 recess mounting decorative mirror optic flourescent fitting (Cat-2) with APF electronic ballast suitable continuous operation with THD < 10%, power factor > 0.98, RoHS complaint, high lumen tube made of 0.5mm thick CRCA sheet accessories and lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19mm dia MS conduit up to 2x30cm 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.				
	8	Nos.		E	6315.00	Rs.Six thousand three hundred & fifteen only	50520.00

4			Surface mounting decorative fluorescent tube light fitting (Cat-2) complete with lamp holder, APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, high lumen tube, duly wired up for use on 230 V AC supply directly on wall				
4	9	Nos.	Suitable for twin 28 W T5 lamps	E	4678.00	Rs.Four thousand six hundred & seventy eight only	42102.00
5			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.				0.00
5.1	100	m	20 mm dia light gauge	m	83.00	Rs.Eighty three only	8300.00
6			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.				0.00
6.1	60	m	1.50 sq mm 1 run	m	45.00	Rs.Forty five only	2700.00
6.2	40	m	2.50 sq mm 1 run	m	55.00	Rs.Fifty five only	2200.00
6.3	60	m	2.50 sq mm 2 run	m	81.00	Rs.Eighty one only	4860.00
6.4	40	m	4.00 sq mm 2 run	m	106.00	Rs.One hundred & six only	4240.00
7			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>)				
7.1	6	nos	2 module metal box in recess	E	165.00	Rs.One hundred & sixty five only	990.00
7.2	1	nos	3 module metal box in recess	E	180.00	Rs.One hundred & eighty only	180.00
7.3	2	nos	6 module metal box in recess	E	198.00	Rs.One hundred & ninety eight only	396.00
7.4	8	nos	12 module moulded plastic box on surface	E	269.00	Rs.Two hundred & sixty nine only	2152.00
7.5	6	nos	8 module metal box in recess	E	232.00	Rs.Two hundred & thirty two only	1392.00

8			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (Group B/ RoHS compliant)				
8.1	6	nos	2 module white/ off-white	E	101.00	Rs.One hundred & one only	606.00
8.2	1	nos	3 module white/ off-white	E	116.00	Rs.One hundred & sixteen only	116.00
8.3	2	nos	6 module white/ off-white	E	152.00	Rs.One hundred & fifty two only	304.00
8.4	6	nos	8 module white/ off-white	E	187.00	Rs.One hundred & eighty seven only	1122.00
8.5	8	nos	12 module white/ off-white	E	251.00	Rs.Two hundred & fifty one only	2008.00
9			Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (Group B RoHS compliant)				
9.1	65	nos	6 A SP 1 way switch	E	119.00	Rs.Onehundred & nineteen oly	7735.00
9.2	23	nos	6A 3 pin shuttered socket	E	157.00	Rs.One hundred & fifty seven only	3611.00
9.3	8	nos	16 A SP 1 way switch	E	161.00	Rs.One hundred & sixty one only	1288.00
9.4	8	nos	6/16 A socket	E	223.00	Rs.Two hundred & twenty three only	1784.00
9.5	3	Nos.	32 A DP switch with indicator	E	316.00	Rs.Three hundred & sixteen only	948.00
9.6	3	Nos.	25A socket	E	223.00	Rs.Two hundred & twenty three only	669.00
9.7	8	nos	100 W Step type fan regulator - 2 M	E	522.00	Rs. Five hundred & twenty two only	4176.00
10			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				
10.1	1	nos	6 way (8+18) - 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	8960.00	Rs.Eight thousand nine hundred & sixty only	8960.00
11			Supply and installation of the following accessories 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				

11.1	1	no.	40 A four pole mini break isolator	E	716.00	Rs.Seven hundred & sixteen only	716.00
11.2	1	no	40 A, 4 pole, 100 mA RCCB	E	2881.00	Rs.Two thousand eight hundred & eighty one only	2881.00
11.3	18	nos	6-32A(C curve)	E	219.00	Rs.Two hundred & nineteen only	3942.00
12			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.				
12.1	45	m	4 core 25 sq mm with factory made clamp	m	281.00	Rs.Two hundred & eighty one only	12645.00
13			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.				
13.1	2	nos	25 sq mm	E	474.00	Rs.Four hundred & seventy four only	948.00
14			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.				
14	2	nos	4sqmm-16 sq mm with 12 mm wide x 1 mm thick clip	E	18.00	Rs.Eighteen only	36.00
15			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.				
15	8	nos	25 sq mm	E	14.40	Rs.Fourteen & ps. Forty only	115.20
16			Supply and drawing bare <i>earthing conductors</i> of the following sizes <i>along with wiring/ cables</i> and giving connection as required.				
16.1	90	m	3.15 mm copper conductor (10 SWG)	m	62.00	Rs.Sixty two only	5580.00

17			supply of superior quality <i>copper earth socket</i> for the following sizes of earth conductor including crimping etc. as required.				
17.1	6 m		3.15 mm (10 SWG)	E	19.00	Rs.Nineteen only	114.00
18	25 nos		Supply and installation of surface mounded 15W LED light on celing using suitable sizes steel screws cup washers and giving connec tions etc as required	E	1614.00	Rs.One thousand six hundred & fourteen only	40350.00
			TOTAL				233858.20

PAC Rs.2,33,858/- (Rupees Two lakh Thirty three thousand Eight hundred & fifty eight 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