

UNIVERSITY OF KERALA
ENGINEERING UNIT, KARIAVATTOM

Tender Scheule for Electrical works in Instituite of English at SH Campus utilizing RUSA funds.

SI No	Qty	Specification	Unit	Rate	Rate in words	Amount
1		Supply and wiring points according to IS 732-1989 using rigid PVC ivory conduit of minimum size 20 mm 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 PVC insulated stranded single core FR <i>copper conductor cable</i> 650V grade,including providing switch board main ,and continuous earthing with 14SWG copper , required qty of copper earth socket, brass bolt and nut crimping etc complete with suitable size modular type metal switch boxes, <i>modular type front plates (white)</i> etc. up to and including 6 A modular type ROHS compliant 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				
a	62	Nos	Single control light point with 6A, 3 plate ceiling rose	E	841.00	Rs.Eight hundred & forty one only 52,142.00
b	1	Nos	Single control light point without ceiling rose	E	823.00	Rs.Eight hundred & twenty three only 823.00
c	23	Nos	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator.	E	1,498.00	Rs.One thousand four hundred & ninety eight only 34,454.00
d	10	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 4,210.00
e	1	Nos	Call bell point with piano type 6 A bell push at one end and 6 A, 3 plate ceiling rose at other end	E	875.00	Rs.Eight hundred & seventy five only 875.00

2			<i>Supply</i> , conveyance installation testing and commissioning of pre-wired light fittings 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	8	Nos	1x28wT5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant, high lumen tube .	E	1,717.00	Rs.One thousand seven hundred & seventeen only	13,736.00
3	1	1	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
a	1	Nos	Normal size 15 W BC / ES retrofit CFL	E	167.00	Rs.One hundred & sixty seven only	167.00
4			<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.				
a	18	Nos	400 mm sweep	E	1,746.00	Rs.One thousand seven hundred & forty six only	31,428.00
5			Supply and fixing the following types of superior quality 250V A.C <i>call bell</i> on existing M.S. box and giving connections with required length of 3 core, 16 / 0.20mm 650/1100V grade PVC insulated and PVC sheathed round copper conductor flex wire conforming to relevant ISS or with the extended original wiring, earthing the MS box and making good the surface as required				
a	1	Nos	Call bell	E	145.00	Rs.One hundred & forty five only	145.00

6			Supply and fixing the following sizes of <i>MS box</i> made out of 1.60 mm MS sheet painted with 2 coats of enamel paint over a coat of red oxide primer (without front cover) en-route the conduit as junction boxes				
a	1	Nos	100 x 100 x 50 mm with 3mm sheet	E	192.00	Rs.One hundred & ninety two only	192.00
7			<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	6	Nos	1200 mm sweep - 5 star rated	E	1,853.00	Rs.One thousand eight hundred & fifty three only	11,118.00
8	1	Nos	<i>Charges for cutting holes</i> suitable for accommodating <i>exhaust fans</i> of sizes <i>up to 305 mm sweep</i> including plastering, colour washing etc. as required.	E	294.00	Rs.Two hundred & ninety four only	294.00
9			<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	1	Nos	300/ 305 mm, single phase light duty exhaust fan in metal frame	E	1,828.00	Rs.One thousand eight hundred & twenty eighty only	1,828.00
10			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	200	m	20 mm dia light gauge	m	83.00	Rs.Eighty three only	16,600.00
b	20	m	25 mm dia light gauge	m	95.00	Rs.Ninety five only	1,900.00
11			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	90	m	1.50 sq mm 1 run	m	45.00	Rs.Forty five only	4,050.00
b	30	m	1.50 sq mm 2 run	m	61.00	Rs.Sixty one only	1,830.00
c	85	m	2.50 sq mm 1 run	m	55.00	Rs.Fifty five only	4,675.00
d	90	m	2.50 sq mm 2 run	m	81.00	Rs.Eighty one only	7,290.00
e	30	m	2.50 sq mm 4 run	m	134.00	Rs.One hundred & thirty four only	4,020.00
f	78	m	4.00 sq mm 2 run	m	106.00	Rs.One hundred & six only	8,268.00
g	20	m	6.00 sq mm 4 run	m	260.00	Rs.Two hundred & sixty only	5,200.00
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>ROHS</i>)				
a	6	Nos	2 module moulded plastic box on surface	E	185.00	Rs.One hundred & eighty five only	1,110.00
b	4	Nos	3 module moulded plastic box on surface	E	194.00	Rs.One hundred & ninety four only	776.00
c	4	Nos	6 module moulded plastic box on surface	E	209.00	Rs.Two hundred & nine only	836.00
d	7	Nos	8module moulded plastic box on surface	E	233.00	Rs.Two hundred & thirty three only	1,631.00
13			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (RoHS)				

a	6	Nos	3 module white/ off-white	E	101.00	Rs.One hundred & one only	606.00
b	4	Nos	3 module white/ off-white	E	116.00	Rs.One hundred & sixteen only	464.00
c	4	Nos	6 module white/ off-white	E	152.00	only	608.00
d	7	Nos	8 module white/ off-white	E	187.00	Rs.One hundred & eighty seven only	1,309.00
14			Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (Group B)				
a	22	Nos	6 A SP 1 way switch	E	119.00	Rs.One hundred & nineteen only	2,618.00
b	4	Nos	16 A SP 1 way switch	E	161.00	Rs.One hundred & sixty one only	644.00
c	29	Nos	6 A Universal socket	E	147.00	Rs.One hundred & forty seven only	4,263.00
d	4	Nos	6/16 A socket	E	223.00	Rs. Two hundred & twenty three only	892.00
e	3	Nos	32 Dp switch with LED	E	316.00	Rs.Three hundred & sixteen only	948.00
f	3	Nos	25A socket	E	223.00	Rs.Two hundred & twenty three only	669.00
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				
a	3	Nos	8 way single phase double cover (IP 42/43)	E	1,572.00	Rs.One thousand five hundred & seventy two only	4,716.00
b	1	Nos	4 way(8+12) Three phase double cover (IP 42/43)	E	3,329.00	Rs.Three thousand three hundred & twenty nine only	3,329.00
c	3	Nos	25 A double pole mini break isolator	E	342.00	Rs.Three hundred & forty two only	1,026.00

d	1	Nos	40 A four pole mini break isolator	E	716.00	Rs.Seven hundred & sixteen only	716.00
e	1	Nos	63 A four pole mini break isolator	E	752.00	Rs.Seven hundred & fifty two only	752.00
f	3	Nos	25 A, 2 pole, 30 mA RCCB	E	2,023.00	Rs.Two thousand & twenty three only	6,069.00
g	1	Nos	40 A, 4 pole, 100 mA RCCB	E	2,881.00	Rs.Two thousand eight hundred & eighty one only	2,881.00
h	19	Nos	6-32A(C curve)	E	219.00	Rs.Two hundred & nineteen only	4,161.00
i	1	Nos	40A ,10KA TPMCB C curve	E	1,369.00	Rs.One thousand three hundred & Sixty nine only	1,369.00
16			S & F switch disconnecter fuse unit complete with handle assembly, door inter lock and padlocking arrangement of the following ratings: after dismatling the existing 32A TPN from the main panel board				
a	1	Nos	63 A, AC 23 A, TPN SDF for DIN/ BS fuse	E	2,118.00	Rs.Two thousand one hundred & eighteen only	2,118.00
17			S & F following HRC fuses				
a	3	Nos	2 -80A, DIN type fuse link of size 000	E	198.00	Rs.One hundred & ninety eight only	594.00
18	4	m2	Painting the panelboard with synthetic enamel paint using approved quality paint as specified two coats over a priming coat after scrapping and cleaning old painted surface including all charges for cost and conveyance labour charges etc complete.	M2	135.00	Rs.One hundred & thirty five only	540.00
19	5	Nos	Dismantling the existing single / double tube fluorescent fitting complete, cleaning and painting with two coats of synthetic enamel paint, checking all connections and refitting the same in position and giving connections etc. as required.	E	95.00	Rs.Ninety five only	475.00

20	30	Nos	Charges for dismantling the existing EI, complete, making good the damages of walls and conveying the dismantled materials to section store.	E	13.00	Rs.Thirteen only	390.00
21	1	E	Dismantling the existing meter board and convey the same to section store	E	138.00	Rs.One hundred & thirty eighty only	138.00
			Total				251,956.00

PAC Rs.2,51,956/- (Rupees Two Lakhs fifty One thousand Nine hundred & Fifty Six 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**