

University of Kerala
Engineering Unit, Kariavattom

**TENDER SCHEDULE FOR REWIRING AND PROVIDING ADDITIONAL ELECTRICAL INSTALLATIONS AT
DEPARTMENT OF RUSSIAN AT S.H. CAMPUS, PALAYAM.**

Sl.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 1.5sqmm green coloured FR wire , 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 etc as required.				
a	20	Nos	Single control light point with 6A, 3 plate ceiling rose	E	966.00	Rs. Nine hundred & sixty six only	19,320.00
b	9	Nos	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator.	E	1,622.00	Rs. One thousand six hundred & twenty two onlly	14,598.00

c	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	483.00	Rs. Four hundred & eighty three only	1,449.00
2			Supply & installation of light fittings on TW round block				
2	5	Nos	Mounting rail fittings (box type fittings) made out of CRCA sheet of minimum thickness 0.50 mm, powder coated / stove enameled suitable for 1 x 36/ 40 W FTL with light duty electronic ballast having THD < 33%, lamp holder etc duly wired up for use on 240 V single phase AC supply.	E	945.00	Rs.Nine hundred & forty five only	4,725.00
3	2	Nos	Supply and installation of suitable size <i>MS rod type fan clamp</i> as per IS 732 as required.	E	124.00	Rs. One hundred & twenty four only	248.00
4			<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	E	1,853.00	Rs. One thousand eight hundred & fifty three only	3,706.00
b	4	M	Supply and providing every <i>additional length of down rod</i> of suitable size heavy gauge GI / WI pipe with 16/0.20mm PVC insulated and PVC sheathed 3 core round copper conductor flex wire conforming in relevant ISS or with original wiring extended including painting as required.	m	115.00	Rs. One hundred & fifteen only	460.00
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.				
a	170	M	20 mm dia light gauge	m	83.00	Rs. Eighty three only	14,110.00
b	10	M	25 mm dia light gauge	m	95.00	Rs. Ninety five only	950.00

6			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.				
a	10	M	20 mm dia	m	52.00	Rs. Fifty two only	520.00
7			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	Rs. Forty five only	5,400.00
b	120	M	2.50 sq mm 2 run	m	81.00	Rs. Eighty one only	9,720.00
c	70	M	2.50 sq mm 1 run	m	55.00	Rs. Fifty five only	3,850.00
d	70	M	4.00 sq mm 2 run	m	106.00	Rs. One hundred & six only	7,420.00
e	10	M	4.00 sq mm 3 run (UPS connection)	m	145.00	Rs. One hundred & forty five only	1,450.00
8			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	12	Nos	9 module metal box in recess	E	239.00	Rs. Two hundred & thirty nine only	2,868.00
b	5	Nos	6 module metal box in recess	E	198.00	Rs. One hundred & ninety eight only	990.00
9			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (<i>RoHS</i>)				
a	5	Nos	6 module white/ off-white	E	152.00	Rs. One hundred & fifty two only	760.00
b	12	Nos	9 module white/ off-white	E	195.00	Rs. One hundred & ninety five only	2,340.00
10			Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (<i>RoHS</i>)				

a	41	Nos	6 A SP 1 way switch	E	119.00	Rs. One hundred & nineteen only	4,879.00
b	5	Nos	16 A SP 1 way switch	E	161.00	Rs. One hundred & sixty one only	805.00
c	41	Nos	6A 3 pin shuttered socket	E	157.00	Rs. One hundred & fifty seven only	6,437.00
d	5	Nos	6/16 A socket	E	223.00	Rs. Two hundred & twenty three only	1,115.00
e	6	Nos	Blank plate 1 M	E	19.00	Rs. Nineteen only	114.00
11			Supply and fixing <i>SP & N metal case enclosure</i> with 2 pole and earth plug socket with pin suitable for incorporating , SP MCB (excluding cost of SP MCB) in surface/ recess including giving necessary connections, making good the damages etc. as required.				
a	1	No	250V, 20A, 2 pole and earth	E	917.00	Rs. Nine hundred & seventeen only	917.00
12			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	1	No	8 way (8+24) - three phase double cover (IP 42/43)	E	4,783.00	Rs. Four thousand seven hundred & eighty three only	4,783.00
b	2	No	40 A four pole mini break isolator	E	716.00	Rs. Seven hundred & sixteen only	1,432.00
c	1	No	40 A, 4 pole, 30 mA RCCB	E	2,780.00	Rs. Two thousand seven hundred & eighty	2,780.00
d	1	No	8 way (8+24) - 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	9,677.00	Rs. Nine thousand six hundred & seventy seven only	9,677.00
e			S & F SP MCB				
f	15	Nos	6-32A(C curve)SP MCB (C curve)	E	219.00	Rs. Two hundred & nineteen only	3,285.00

			S & F TP MCB				
g	2	No	32A TP MCB	E	908.00	Rs. Nine hundred & eight only	1,816.00
13			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	60	M	4 core 16 sq mm with factory made clamp	m	231.00	Rs. Two hundred & thirty one only	13,860.00
b	35	M	4 core 25 sq mm with factory made clamp	m	281.00	Rs. Two hundred & eighty one only	9,835.00
14			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.				
a	2	Nos	16 sq mm	E	319.00	Rs. Three hundred & nineteen only	638.00
b	2	Nos	25 sq mm	E	474.00	Rs. Four hundred & seventy four only	948.00
15			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	4sqmm-16 sq mm with 12 mm wide x 1 mm thick clip	E	18.00	Rs. Eighteen only	36.00
b	2	Nos	25 sq - 95sq mm with 20 mm wide x 1.20 mm thick clip	E	27.00	Rs. Twenty seven only	54.00
16			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	8	Nos	16 sq mm	E	13.70	Rs. Thirteen & ps. seventy only	109.60
b	8	Nos	25 sq mm	E	14.40	Rs. Fourteen & ps. forty only	115.20
17			Supply and drawing bare <i>earthing conductors</i> of the following sizes <i>along with wiring/ cables</i> and giving connection as required.				
a	120	M	2.65 mm copper conductor (12 SWG)	m	43.00	Rs. Forty three only	5,160.00

b	70	M	3.15 mm copper conductor (10 SWG)	m	62.00	Rs. Sixty two only	4,340.00
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	20	Nos	25 x 3mm brass bolt & nut	E	17.00	Rs. Seventeen only	340.00
19	7	Nos	Dismantling the existing 1200 mm sweep ceiling fan, scraping, cleaning, overhauling and greasing the bearings, reassembling and painting the same using suitable colour enamel paint, refitting the same in position and giving connection etc as required	E	155.00	Rs. One hundred & fifty five	1,085.00
20	13	Nos	Dismantling the existingsingle tube flourescent fittings, scraping, cleaning and painting with 2 coats of synthetic enamel paint, checking all connections, attending petty repairs and refitting the same in position and giving connections etc as required.	E	73.00	Rs. Seventy three only	949.00
21	5	Nos	Supply and renewing 40 W starter in place of damaged one	E	14.00	Rs. Fourteen only	70.00
22	2	Nos	Supply and renewing 40 W copper wound ballast in place of damaged one	E	213.00	Rs. Two hundred & thirteen only	426.00
23	5	Nos	Supply and renewing 40 W flourescent tube	E	57.00	Rs. Fifty seven only	285.00
24	4	Nos	Supply and renewing Bi-Pin Lamp holder	E	25.00	Rs. Twenty five only	100.00
25	3	Nos	Supply and renewing fan condensor in place of damaged /faulty ones of the existing ceiling fan and giving mconnection.	E	62.00	Rs. Sixty two only	186.00
26	7	Nos	Supply and renewoing TVS Nut and Bolt in place of damaged one	E	10.00	Rs. Ten only	70.00
			Total				1,70,393.80

PAC Rs.1,70,394/- (Rs. One lakh seventy thousand three hundred & ninety four only

I/We agree to execute the work.

1.% below the estimate rae.

2.% above the estimate rate.

3. At the estimate rate.

UNIVERSITY ENGINEER

CONTRACTOR.

