

**UNIVERSITY OF KERALA**  
**ENGINEERING UNIT,KARIAVATTOM**  
**TENDER SHEDULE FOR SETTING UP OF RESOURCE CENTRE IN KERALA UNIVERSITY LIBRARY- ELECTRICAL WORKS**

Sl no	Qty	Unit	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 copper conductor cable 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, modular type front plates (white) etc. up to and including 6 A modular typeROHS 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	6	Nos	Single control light point without ceiling rose	E	823.00	Rupees Eight Hundred and Twenty Three Only	4938.00
b	2	Nos	Single control ceiling fan point with 6 A, 3 plate ceiling rose & with socket size stepped electronic regulator.	E	1498.00	Rupees One Thousand Four Hundred and Ninety Eight Only	2996.00
c	1	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	Rupees Four Hundred and Twenty One Only	421.00
2	5	Nos	Supply, conveyance, installation, testing and commissioning of 230V,50Hz recessed mount Green LED 2000 lumens 5700-6500K LED down light fittings Philips make (DN95BLED205-6500PSUWHSM)/Crompton/Havels/ Bajaj)	E	3380.00	Rupees Three Thousand Three Hundred and Eighty Only	16900.00

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 (ROHS)				0.00
a	4	Nos	2 module metal box in recess	E	165.00	Rupees One Hundred and Sixty Five Only	660.00
4			Supply & Fixing the following types/ sizes of front plates on the existing modular boxes. (RoHS)				0.00
a	4	Nos	2 module white/ off-white	E	101.00	Rupees One Hundred and One Only	404.00
b	13	Nos	3 module white/ off-white	E	116.00	Rupees One Hundred and Sixteen Only	1508.00
c	3	Nos	6 module white/ off-white	E	152.00	Rupees One Hundred and Fifty Two Only	456.00
d	12	Nos	8 module white/ off-white	E	187.00	Rupees One Hundred and Eighty Seven Only	2244.00
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				0.00
a	1	Nos	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 OneThousand Seven Hundred and Thirty Nine Only	7739.00
b	2	Nos	DP enclosure for independent mounting of MCB	E	486.00	Rupees Four Hundred and Eighty Six Only	972.00
c	1	Nos	12 way single phase double cover (IP 42/43)	E	1899.00	Rupees One Thousand Eight Hundred and Ninety Nine Only	1899.00
6			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				0.00

a	1	Nos	40 A double pole mini break isolator	E	356.00	Rupees Three Hundred and Fifty Six Only	356.00
b	1	Nos	40 A, 2 pole, 30 mA RCCB	E	2357.00	Rupees Two Thousand Three Hundred and Fifty Seven Only	2357.00
c	1	Nos	40 A four pole mini break isolator	E	716.00	Rupees Seven Hundred and Sixteen Only	716.00
d	1	Nos	40 A, 4 pole, 100 mA RCCB	E	2881.00	Rupees Two Thousand Eight Hundred and Eighty One One Only	2881.00
e	15	Nos	6-32A( C curve)	E	219.00	Rupees One Hundred and Nineteen Only	3285.00
7			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
a	40	m	32 mm dia light gauge	m	119.00	Rupees One Hundred and Nineteen Only	4760.00
b	80	m	20 mm dia light gauge	m	83.00	Rupees Eighty Three Only	6640.00
8			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
a	10	m	1.50 sq mm 1 run	m	45.00	Rupees Forty Five Only	450.00
b	100	m	1.50 sq mm 3 run	m	77.00	Rupees Seventy Seven Only	7700.00
c	60	m	2.50 sq mm 1 run	m	55.00	Rupees Fifty Five Only	3300.00
d	30	m	2.50 sq mm 2 run	m	81.00	Rupees Eighty One Only	2430.00
e	100	m	4.00 sq mm 2 run	m	106.00	Rupees One Hundred and Six Only	10600.00
f	45	m	6.00 sqmm 4run	m	260.00	Rupees Two Hundred and Sixty Only	11700.00

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.				0.00
a	18	m	20 mm dia	m	52.00	Rupees Fifty Two Only	936.00
10	5	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	Rupees One Hundred and Fifteen Only	575.00
11			Supply and fixing <i>50 x 50 mm PVC Cable Management System</i> with base and lid along with the following accessories conforming to IEC 61084/ BS 476 & 4678 on surface / recess including cutting the wall and making good the damages in case of recessed installation as required.				0.00
a	5	m	50 x 50 mm CMS with base & lid	M	537.00	Rupees Five Hundred and thirty Seven only	2685.00
12			Supply and fixing <i>100 x 50 mm PVC Cable Management System</i> with base and lid along with the following accessories conforming to IEC 61084/ BS 476 & 4678 on surface / recess including cutting the wall and making good the damages in case of recessed installation as required.				0.00
a	15	m	100 x 50 mm CMS with base & lid	M	935.00	Rupees Nine Hundred and Thirty Five Only	14025.00
b	6	Nos	End Cap	E	92.00	Rupees Ninety Two Only	552.00
c	12	Nos	8 module mounting box	E	251.00	Rupees Two Hundred and Fifty One Only	3012.00
d	3	Nos	6 module moulded plastic box on surface	E	209.00	Rupees Two Hundred and Nine Only	627.00
e	10	Nos	3 module mounting box	E	143.00	Rupees One Hundred and Forty Three Only	1430.00

13			Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (Group B)				0.00
a	1	Nos	16 A SP 1 way switch	E	161.00	Rupees One Hundred and Sixty One Only	161.00
b	1	Nos	6/16 A socket	E	223.00	Rupees Two Hundred and Twenty Three Only	223.00
c	40	Nos	6 A SP 1 way switch	E	119.00	Rupees One Hundred and Nineteen Only	4760.00
d	50	Nos	6A 3 pin shuttered socket	E	157.00	Rupees One Hundred and Fifty Seven Only	7850.00
e	2	nos	25A 3pin Socket	E	316.00	Rupees Three Hundred and Sixteen Only	632.00
f	2	nos	32A DP switch with indicator	E	223.00	Rupees Two Hundred and Twenty Three Only	446.00
14			<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.				0.00
a	2	nos	1200 mm sweep - 5 star rated	E	1853.00	Rupees One Thousand Eight hundred and Fifty Three Only	3706.00
15			<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.				0.00

a	1	Nos	1x28wT5 fitting with APF electronic ballast suitable for continuous operation with THD <10%, power factor >0.98, RoHS compliant,high lumen tube .	E	1717.00	Rupees One Thousand Seven Hundred and Seventeen Only	1717.00
16	1	Nos	Dismantling the existing defective SDF in the existing pannel board installed at staircase side and supply and fixing 1no: 63A TPN SDFwith 50A HRC fuse link in the existing enclosure and giving connection etc as required	E	4506.00	Rupees Four Thousand Five Hundred and Six Only	4506.00
			<b>TOTAL</b>				<b>146155.00</b>

PAC Rs 1,46,155.00 (Rupees One Lakh Forty Six Thousand One Hundred and Fifty Five Only)

I/We agreed to execute the work

1. .... Below estimate rate

2. at estimate rate

3. .... Above estimate rate

**CONTRACTOR**

sd/-  
**UNIVERSITY ENGINEER**