

UNIVERSITY OF KERALA							
ENGINEERING UNIT, KARIAVATTOM							
Tender Schedule for Electrification of the Centre for Latin American Studies building under Department of Political Science at Kariavattom campus							
Sl.no	Qty		Description of work	Unit	Rate	Rate in words	Amount
1			Supply and wiring 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 providing switch board main and continuous earthing with No.14 SWG bare copper,required quantity of copper earth socket, brass bolt and nut crimping/ soldering etc complete with suitable size modular type metal switch boxes, modular type front plates (white) 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. (Group B/ RoHS compliant modular accessories).				
1.1	24	nos	Single control light point with 6A, 3 plate ceiling rose	E	841.00	Rupees Eight hundred and Forty One only	20184.00

1.2	10	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	14980.00
1.3	2	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	Rupees Four hundred and Eighty Three only	966.00
1.4	5	nos	Single control light point without ceiling rose	E	579.00	Rupees Five hundred and Seventy Nine only	2895.00
2			<i>Supply</i> , conveyance installation testing and commissioning the 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	2	nos	1200mm 20/22 W LED lamp with box type fixture	E	2241.00	Rupees Two Thousand Two hundred and Forty One only	4482.00
3			<i>Supply</i> , 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.				
3.1	15	nos	1200mm 20/22 W LED lamp with box type fixture	E	2439.00	Rupees Two Thousand Four hundred and Thirty Nine only	36585.00

4	5	m	Supplying and providing <i>extra H.G conduit down rod of 19 mm dia 2 x 1.00 m</i> long with 16/0.20 mm 3 core copper conductor flex wire conforming to relevant ISS or with the extended original wiring and giving connection etc. as required.	m	198.00	Rupees One hundred and Ninety Eight only	990.00
5			Supply, fabrication, conveyance and fixing the following sizes of B class <i>GI pipe bent to shape / cut and welded to shape</i> and fixing the same to wall / parapet using clamps as noted along with each size, painting with 2 coats of synthetic enamel paint over a coat of zinc chromate primer, making good the damages, colour washing etc as required (for the installation of outdoor light fittings).				
5.1	3	m	40 mm dia with clamps made from 20 x 3 mm MS flat	m	347.00	Rupees Three hundred and Forty Seven only	1041.00
6	10	nos	Supply and installation of suitable size <i>MS rod type fan clamp</i> as per IS 732 as required.	E	124.00	Rupees One hundred and Twenty Four only	1240.00
7	3	m	Supply and providing every additional length of down rod 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	345.00
8			<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.				

8.1	10	nos	1200 mm sweep - 5 star rated	E	1853.00	Rupees One Thousand Eight hundred and Fifty Three only	18530.00
9	6	nos	<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.				
9	6	nos	400 mm sweep	E	1746.00	Rupees One Thousand Seven hundred and Forty Six only	10476.00
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.				
10.1	98	m	20 mm dia light gauge	m	83.00	Rupees Eighty Three only	8134.00
10.2	5	m	25 mm dia light gauge	m	95.00	Rupees Ninety Five only	475.00
11			Supply and fixing the following sizes of <i>PVC Conduit</i> conforming to IS 9537 / 1983 part III along with all required accessories <i>in recess</i> including cutting the wall and making good the damages etc as required.				
11.1	30	m	20 mm dia light gauge	m	120.00	Rupees One hundred and Twenty only	3600.00
11.2	5	m	25 mm dia light gauge	m	133.00	Rupees One hundred and Thirty Three only	665.00
12			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.				
12.1	30	m	1.50 sq mm 1 run	m	45.00	Rupees Forty Five only	1350.00
12.2	60	m	1.50 sq mm 3 run	m	77.00	Rupees Seventy Seven only	4620.00
12.3	10	m	1.50 sq mm 5 run	m	110.00	Rupees One hundred and Ten only	1100.00

12.4	15	m	1.50 sq mm 6 run	m	126.00	Rupees One hundred and Twenty Six only	1890.00
12.5	50	m	2.50 sq mm 1 run	m	55.00	Rupees Fifty Five only	2750.00
12.6	30	m	2.50 sq mm 2 run	m	81.00	Rupees Eighty One only	2430.00
12.7	5	m	2.50 sq mm 4 run	m	134.00	Rupees One hundred and Thirty Four only	670.00
12.8	30	m	4.00 sq mm 2 run	m	106.00	Rupees One hundred and Six only	3180.00
12.9	10	m	4.00 sq mm 4 run	Mtr	184.00	Rupees One hundred and Eighty Four only	1840.00
13			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> )				
13.1	9	nos	2 module metal box in recess	E	165.00	Rupees One hundred and Sixty Five only	1485.00
13.2	2	nos	6 module metal box in recess	E	198.00	Rupees One hundred and Ninety Eight only	396.00
13.3	7	nos	3 module metal box in recess	E	180.00	Rupees One hundred and Eighty only	1260.00
13.4	9	nos	2 module white/ off-white	E	101.00	Rupees One hundred and One only	909.00
13.5	7	nos	3 module white/ off-white	E	116.00	Rupees One hundred and Sixteen only	812.00
13.6	2	nos	6 module white/ off-white	E	152.00	Rupees One hundred and Fifty Two only	304.00
13.7	1	nos	8 module white/ off-white	E	187.00	Rupees One hundred and Eighty Seven only	187.00
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	12	nos	6 A SP 1 way switch	E	119.00	Rupees One hundred and Nineteen only	1428.00

14.2	3	nos	16 A SP 1 way switch	E	161.00	Rupees One hundred and Sixty One only	483.00
14.2	4	nos	25 A DP switch with indicator	E	304.00	Rupees Three hundred and Four only	1216.00
14.3	4	nos	32 A 3 pin socket	E	223.00	Rupees Two hundred and Twenty Three only	892.00
14.4	11	nos	6A 3 pin shuttered socket	E	157.00	Rupees One hundred and Fifty Seven only	1727.00
14.5	3	nos	6/16 A socket	E	223.00	Rupees Two hundred and 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 etc. as required				
15.1	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
15.2	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 Seven Thousand 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 double pole mini break isolator	E	356.00	Rupees Three hundred and Fifty Six only	356.00
16.2	1	nos	63 A four pole mini break isolator	E	752.00	Rupees Seven hundred and Fifty Two only	752.00

16.3	1	nos	40 A, 2 pole, 30 mA RCCB	E	2357.00	Rupees Two Thousand Three hundred and Fifty Seven only	2357.00
16.4	1	nos	63 A, 4 pole, 100 mA RCCB	E	3306.00	Rupees Three Thousand Three hundred and Six only	3306.00
16.5	13	nos	6-32A( C curve)	E	219.00	Rupees Two hundred and Nineteen only	2847.00
17			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.				
17.1	65	m	4 core 35 sq mm with factory made clamp	m	351.00	Rupees Three hundred and Fifty One only	22815.00
18			Supplying siemens / tropodur type nickel plated <b>Double compression brass cable gland</b> 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.				
18.1	2	nos	35 sq mm	E	469.00	Rupees Four hundred and Sixty Nine only	938.00
19			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.				
19.1	2	nos	25 sq - 95sq mm with 20 mm wide x 1.20 mm thick clip	E	27.00	Rupees Twenty Seven only	54.00
20			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.				

20	8	nos	35 sq mm	E	16.00	Rupees Sixteen only	128.00
21			Supply and drawing bare <i>earthing conductors</i> of the following sizes <i>along with wiring/ cables</i> and giving connection as required.				
21.1	130	m	3.15 mm copper conductor (10 SWG)	m	62.00	Rupees Sixty Two only	8060.00
22			supply of superior quality <i>copper earth socket</i> for the following sizes of earth conductor including crimping etc. as required.				
22.1	6	nos	3.15 mm (10 SWG)	E	19.00	Rupees Nineteen only	114.00
23			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				
23.1	10	nos	25 x 3mm brass bolt & nut	E	17.00	Rupees Seventeen only	170.00
24	1	no	Supply and providing 5 Kg. <i>Dry Chemical Powder type Fire Extinguisher</i> with hose and clamps including fixing it to wall as required.	E	2324.00	Rupees Two Thousand Three hundred and Twenty Four only	2324.00
25	2	Nos	<i>Supply</i> , conveyance, installation, testing and commissioning of pre-wired out door die cast aluminium 60 W LED IP66 <i>light fitting</i> complete with all accessories and lamps etc. <i>in the existing GI pipe</i> and giving connections with required length of 16/0.20mm 3 core copper conductor flex wire conforming to relevant ISS or extending the original wiring and giving connection etc. as required ( Havels make ENDFURA CYLILNDER NEO/Phi;ips/ Crompton/ Bajaj).	E	7775.00	Rupees Seven Thousand Seven hundred and Seventy Five only	15550.00



26	4	Nos	Supply and fixing of 10 W LED IP 65 6000 K Bulkhead luminarie complete as required Havels make ENDURA RUGBY/ Similar make of Bajaj/Crompton/Philips)	E	1485.00	Rupees One Thousand Four hundred and Eighty Five only	5940.00
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**TOTAL**

**Rs**

**232535.00**

PAC Rs.2,32,535/- (Rs. Two LakhThirty Two thousand Five hundred & Thirty Five only)

I/We agreed to execute the work.

1. ....% above the estimate rate.

2. ....% below the estimate rate.

3. At the estimate rate.

**CONTRACTOR**

**sd/-  
UNIVERSITY ENGINEER**