

## UNIVERSITY OF KERALA

## ENGINEERING UNIT

## Tender Schedule for Electrification works to the horizontal extension of the Lesson Room at SDE Building, Karyavattom Campus

Sl. No	Item Description	Qty	Unit	Rate / Unit	Rate in Words	Amount
<b>1 Electrification Works</b>						
1	2.3.3 Supplying and fixing following way, single pole and neutral, sheet steel, MCB distribution board, 240 V, on surface/ recess, complete with tinned copper bus bar, neutral bus bar, earth bar, din bar, interconnections, powder painted including earthing etc. as required. (But without MCB/RCCB/Isolator12 way, Double door	1	E	1587.57	Rupees One Thousand Five Hundred and Eighty Seven and Five Seven Paise Only	1587.57
2	2.10.1 Supplying and fixing 5 amps to 32 amps rating, 240/415 volts, "C" curve, miniature circuit breaker suitable for inductive load of following poles in the existing MCB DB complete with connections, testing and commissioning etc. as required.Single pole	20	E	238.62	Rupees Two Hundred and Thirty Eight and Six Two Paise Only	4772.40
3	2.12.1 Supplying and fixing following rating, double pole, 240 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	1	E	306.20	Rupees Three Hundred and Six and Two Paise Only	306.20
4	2.13.1 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	1	E	919.99	Rupees Nine Hundred and Nineteen and Nine Nine Paise Only	919.99

5	2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	1	E	2371.02	Rupees TwoThousand Three Hundred and Seventy One and Zero Two Paise Only	2371.02
6	2.15.2 Supplying and fixing following rating, four pole, (three phase and neutral), 415 volts, residual current circuit breaker (RCCB), having a sensitivity current upto 300 milliamperes in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	1	E	2939.29	Rupees Two Thousand Nine Hundred and Thirty Nine and Two Nine Paise Only	2939.29
7	90.11.1.14 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 required4 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)	1	E	6475.72	Rupees Six Thousand Four Hundred and Seventy Five and Seven Two Paise Only	6475.72

8	90.3.20.3 Supply & installation of light fittings on TW round block Supply, 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 round block 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.1200 mm 1X20W LED Lamp with box type fixture	8	E	1211.03	Rupees One Thousand Two Hundred and Eleven and Zero Three Paise	9688.24
9	90.4.2 Supply and installation of suitable size MS belt type fan clamp fabricated from flat iron 40 x 6 mm, 150mm long x 2 Nos with M.S. rod bent to shape, neatly painted with 2 coats of enamel paint over a coat of red oxide primer as per IS 732 as required.	4	E	164.69	Rupees One Hundred and Sixty Four and Six Nine Paise Only	658.76
10	90.6.10.1 Supply and fixing of following sizes of light gauge PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required 20 mm	72	m	72.03	Rupees Seventy Two and Zero Three Paise Only	5186.16
11	90.6.10.2 Supply and fixing of following sizes of light gauge PVC conduit along with accessories in surface/ recess including cutting the wall and making good the same in case of recessed conduit as required 25 mm	5	m	82.03	Rupees Eighty Two and Zero Three Paise Only	410.15

12	90.12.7.13 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.3 core 6 sq mm with factory made clamp	45	m	193.38	Rupees One Hundred and Ninety Three and Three Eight Paise Only	8702.10
13	od189939/2020_2021 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed ISI marked rigid PVC conduit of minimum size 20 mm conforming to IS: 9537 Part-3 1983 with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required. Group A	10	point	743.82	Rupees Seven Hundred and Forty Three and Eight Two Paise Only	7438.20
14	od189940/2020_2021 Earthing with G.I. earth pipe 2.5 metre long, 40 mm dia including accessories, and providing masonry enclosure with cover plate having locking arrangement and watering pipe etc. with charcoal/ coke and salt as required	1	set	3944.80	Rupees Three Thousand Nine Hundred and Forty Four and Eight Paise Only	3944.80

15	<p>od189941/2020_2021</p> <p>Supply and wiring points according to IS: 732-1989 using ISI marked rigid PVC conduit of minimum size 20 mm conforming to IS: 9537 Part-3 1983 and with suitable size specials conforming to IS: 3419-1988, fixing the conduit using metal saddles spacing not exceeding 50 cms or concealed suitably and with ISI marked 1.50 sq. mm PVC insulated stranded single core FRLS copper conductor cable of 650 / 1100 V grade, including providing switch board main and continuous earthing with ISI marked 1.50 sq. mm PVC insulated stranded single core FRLS copper conductor cable 650 / 1100 V grade, 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. (RoHS compliant modular accessories)&lt;br&gt;Combined plug point with 6A, 5-pin plug socket controlled by 6A switch in the same switch board as that of light points - Short point</p>	3	point	522.75	Rupees Five Hundred and Twenty Two and Seven Five Paise Only	1568.25
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16	od189946/2020_2021 Supply and fixing cast aluminium stove enameled elliptical shaped bulkhead fitting with deep drawn anodised aluminium body, epoxy powder coated, heat resistant prismatic glass cover with mesh guard and specially designed gasket and porcelain holder suitable for 12W LED bulb (including cost of LED bulb) to wall / ceiling including giving connections with required length of 16/0.20 mm 3 core PVC insulated and PVC sheathed copper conductor round flexible wire of grade 1.1 KV conforming to relevant ISS or extending the original wiring and giving connections as required and also making good the surface as required.	6	E	726.83	Rupees Seven Hundred and Twenty Six and Eight Three Paise Only	4360.98
17	90.16.1.3 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required 3.15 mm copper conductor ( 10 SWG)	20	m	57.41	Rupees Fifty Seven and Four One Paise Onlyt	1148.20
18	90.16.5.3 Supply of superior quality copper earth socket for the following size of earth conductor including crimping etc. as required. 3.15 mm (10 SWG)	4	E	20.41	Rupees Twenty and Four One Paise Only	81.64
19	1.24.1 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required. 5/6 amps switch	8	E	115.86	Rupees One Hundred and Fifteen and Eight Six Paise Only	926.88

20	1.24.4 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.3 pin 5/6 amp socket outlet	20	E	111.72	Rupees One Hundred and Eleven and Seven Two Paise Only	2234.40
21	1.27.5 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.8 Module (125mmX125mm)	4	E	409.65	Rupees Four Hundred and Nine and Six Five Paise Only	1638.60
22	1.25 Supplying and fixing two module stepped type electronic fan regulator on the existing modular plate switch box including connections but excluding modular plate etc. as required	4	E	397.24	Rupees Three Hundred and Ninety Seven and Two Four Paise Only	1588.96
23	1.32 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 6 pin 5/6 & 15/16 amps modular socket outlet and 15/16 amps modular switch, connection etc. as required	4	E	560.00	Rupees Five Hundred and Sixty Only	2240.00
24	90.4.5.4 1200mm sweep - ceiling fan complete with service value minimum 4.0(cub meter/minute/Watt), Air delivery minimum 210(cubic meter/minute), 300mm down rod , 2 number canopies, shackele kit, Copper winding, 3 number blades and all remaining accessories including safety pin, nut bolts, washers suitable for 230V/240V single phase AC supply etc. complete as required	3	E	1862.03	Rupees One Thousand Eight Hundred and Sixty Two and Zero Three Paise Only	5586.09

25	od19594/2021_2022 Supply and installation of switch gear units in sheet steel enclosure complete with handle assembly, door interlock and pad locking arrangement of the following ratings on existing angle iron frame work or directly to wall using necessary bolts and nuts, fixing the unit to wall, making good the damages, colour washing etc including giving necessary connections as required (including cost of HRC fuse links in case of SDF / SDFCO). 63A, 415 V, 50 Hz, AC-23A duty, TPN switch disconnecter fuse unit in sheet steel enclosure.	1	E	6227.65	Rupees Six Thousand Two Hundred and Twenty Seven and Six Five Paise Only	6227.65
26	90.12.7.42 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.4 core 25 sq mm with factory made clamp	5	m	314.48	Rupees Three Hundred nad Fourteen and Four Eight Paise Only	1572.40
27	90.12.5.42 Supply & laying of one number PVC insulated and PVC sheathed armoured aluminium power cable of 1.1KV grade of the following sizes in the existing RCC/ HUME / STONE WARE/ GI/ DWC pipe as required.4 core 25 sq mm	14	m	290.79	Rupees Two Hundred and Ninety and Seven Nine Paise Only	4071.06
28	90.12.10.2 Supply & laying of DWC pipe in ordinary soil 0.75m below ground level including excavation50/38 mm or nearest size	13	m	240.69	Rupees Two Hundred and Fourty and Six Nine Paise Only	3128.97



29	<p>od20299/2021_2022</p> <p>Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed ISI marked rigid PVC conduit of minimum size 20 mm conforming to IS: 9537 Part-3 1983 with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.&lt;br&gt;Group C</p>	6	point	1024.48	Rupees Six Thousand One Hundred and Forty Six and Eight Eight Paise Only	6146.88
30	<p>od20300/2021_2022</p> <p>Supplying of 400 mm sweep oscillating type wall mounting fan having 3-speed control, oscillation control at bottom and suitable for operation on single phase 230 V, 50 Hz AC supply complete with continuous duty motor, chrome plated front and rear guards and all other accessories as required. (Make- Crompton, Havells, Orient or Almonard)</p>	8	E	1673.00	Rupees One Thousand Six Hundred and Seventy Three Only	13384.00
31	<p>od20301/2021_2022</p> <p>Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable in surface / recessed ISI marked rigid PVC conduit of minimum size 20 mm conforming to IS: 9537 Part-3 1983 with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable etc as required.&lt;br&gt;Group B</p>	6	point	833.30	Rupees Eight Hundred and Thirty Three and Three Zero Paise Only	4999.80

32	1.17.1 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.1 x 1.5 sq. mm	38	m	31.72	Rupees Thirty One and Seven Two Paise Only	1205.36
33	1.17.2 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.2 x 1.5 sq. mm	6	m	51.03	Rupees fifty One and Zero Three Paise Only	306.18
34	1.17.3 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.3 X 1.5 sq.mm	22	m	68.97	Rupees Sixty Eight and Nine Seven Paise Only	1517.34
35	1.17.4 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.4 x 1.5 sq. mm	8	m	88.28	Rupees Eighty Eight and Two Eight Paise Only	706.24
36	1.17.11 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.2 x 2.5 sq. mm	43	m	73.10	Rupees Seventy Three and One Zero Paise Only	3143.30
37	1.17.13 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.4 x 2.5 sq. mm	8.5	m	133.79	Rupees One Hundred and Thirty Three and Seven Nine Paise Paise Only	1137.22

38	9.1.34 Supplying and making end termination with brass compression gland and aluminium lugs for following size of PVC insulated and PVC sheathed / XLPE aluminium conductor cable of 1.1 KV grade as required.4 X 25 sq. mm (28mm)	4	set	355.86	Rupees Three Hundred and Fifty Five and Eight Six Paise Only	1423.44
39	1.27.1 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.1 or 2 Module (75mmX75mm)	8	E	241.38	Rupees Two Hundred and Forty One and Three Eight Paise Only	1931.04
40	1.48 Supplying and fixing extra conduit down rod of 20 cm length G.I. pipe 15 mm dia, heavy gauge including painting etc. as required. (Note : More than 5 cm length shall be rounded to the nearest 10 cm and 5 cm or less shall be ignored)	9	E	34.48	Rupees Thirty Four and Four Eight Paise Only	310.32
<b>TOTAL</b>						127985.80
<b>ROUNDED TO</b>						127986.00
<b>PAC Rs1,27,986.00 (Rupees One Lakh Twenty Seven Thousand Nine Hundred and Eighty Six Only)</b>						

I/We agreed to execute the work

at ..... Below estimate rate

at estimate rate

at ..... Above estimate rate

**CONTRACTOR**

sd/-  
**UNIVERSITY ENGINEER**