

UNIVERSITY OF KERALA

ENGINEERING UNIT

Tender Schedule for Electrification works for setting up of an Artificial Intelligence Laboratory in the Department of Computer Science, Karyavattom

Sl. No	Item Description	Qty	Unit	Rate / Unit	Rate in Words	Amount
1	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	60	m	72.03	Rupees Seventy Two and Zero Three Paise Only	4321.80
2	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	3	m	82.03	Rupees Eighty Two and Zero Three Paise Only	246.09
3	90.6.10.3 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 32 mm	15	m	101.03	Rupees One Hundred and One and Zero Three Paise Only	1515.45
4	90.9.1.1 Supply and fixing 50 x 50 mm PVC Cable Management System 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. 50x50mm Cable Management System with base and lid	5	m	691.21	Rupees Six Hundred and Ninety One and Two One Paise Only	3456.05

5	90.9.1.4 Supply and fixing 50 x 50 mm PVC Cable Management System 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.Internal angle 90 degree	2	E	146.07	Rupees One Hundred and Forty Six and Zero Seven Paise Only	292.14
6	90.9.2.1 Supply and fixing 100 x 50 mm PVC Cable Management System 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.100 x 50 mm CMS with base and lid	24	m	1000.21	Rupees Thousand and Two One Paise Only	24005.04
7	90.9.2.2 Supply and fixing 100 x 50 mm PVC Cable Management System 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.Cable divider	24	m	121.07	Rupees One Hundred and Twenty One and Zero Seven Paise Only	2905.68
8	90.9.2.3 Supply and fixing 100 x 50 mm PVC Cable Management System 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.External angle 90 degree	5	E	241.07	Rupees Two Hundred and Forty One and Zero Seven Paise Only	1205.35

9	90.9.2.5 Supply and fixing 100 x 50 mm PVC Cable Management System 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.Internal angle 90 degree	5	E	241.07	Rupees Two Hundred and Forty One and Zero Seven Paise Only	1205.35
10	90.9.2.8 Supply and fixing 100 x 50 mm PVC Cable Management System 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.End cap	2	E	132.07	Rupees One Hundred and Thirty Two and Zero Seven Paise Only	264.14
11	90.9.2.10 Supply and fixing 100 x 50 mm PVC Cable Management System 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.Joint cover	12	E	102.07	Rupees One Hundred and Two and Zero Seven Paise Only	1224.84
12	90.9.2.12 Supply and fixing 100 x 50 mm PVC Cable Management System 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.1 to 3 module mounting box	2	E	159.86	Rupees One Hundred and Fifty Nine and Eight Six Paise Only	319.72

13	90.9.2.14 Supply and fixing 100 x 50 mm PVC Cable Management System 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.8 module mounting box	23	E	259.86	Rupees Two Hundred and Fifty Nine and Eight Six Paise Only	5976.78
14	90.10.3.15 Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)32A DP switch with indicator	2	E	555.07	Rupees Five Hundred and Fifty Five and Zero Seven Paise Only	1110.14
15	90.10.3.23 Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)16A 3 pin plug top	2	E	119.90	Rupees One Hundred nad Nineteen and Nine Zero Paise Only	239.80
16	90.10.3.33 Supply and Fixing the following modular switches & accessories in the existing front plates and giving necessary connections as required (RoHS compliant)25A 3pin Shuttered socket	2	E	309.79	Rupees Three Hundred and Nine and Seven Nine Paise Only	619.58
17	90.11.1.11 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 required6 way (8+18) - three phase double cover (IP 42/43)	1	E	4424.72	Rupees Four Thousand Four Hundred and Twenty Four and Seven Two Paise Only	4424.72

18	90.12.7.41 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 16 sq mm with factory made clamp	25	E	262.48	Rupees Two Hundred and Sixty Two and Four Eight Paise Only	6562.00
19	od182686/2020_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	15	point	743.82	Rupees Seven Hundred and Forty Three and Eight Two Paise Only	11157.30
20	od182687/2020_2021 Supplying and fixing 40 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	1	E	400.41	Rupees Four Hundred and Four One Paise Only	400.41

21	<p>od182688/2020_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)
Combined plug point with 6A, 5-pin plug socket controlled by 6A switch in the same switch board as that of light</p>	3	point	522.75	Rupees five Hundred and Twenty Two and Seven Five Paise Only	1568.25
22	<p>od182689/2020_2021</p> <p>Dismantling the existing single / double tube fluorescent fitting complete, cleaning,rewiring as per LED tube light fittings and refitting the same in position and giving connections etc. as required</p>	20	E	64.41	Rupees Sixty Four and Four One Paise Only	1288.20

23	od182690/2020_2021 Supplying linear LED T8 tube with extruded aluminium body, PC diffuser and inbuilt driver having double sided connection suitable for continuous operation with THD <10%, power factor >0.98 and RoHS compliant. (Make- Crompton-LTT8-20, Philips, Havells or Wipro)	20	E	676.00	Rupees Six Hundred and Seventy Six Only	13520.00
24	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 MCBIRCCB/Isolator12 way, Double door	1	E	1587.57	Rupees One Thousand Five Hundred and Eighty Seven and Five Seven Paise Only	1587.57
25	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	21	E	238.62	Rupees Two Hundred and Thirty Eight and Six Two Paise Only	5011.02
26	2.10.4 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.Triple pole	1	E	965.51	Rupees Nine Hundred and Sixty Five and Five One Paise Only	965.51
27	2.12.1Supplying 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	3	E	306.20	Rupees Three Hundred and Six and Two Zero Paise Only	918.60

28	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
29	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	10	m	31.72	Rupees Thirty One and Seven Two Paise Only	317.20
30	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	22	m	51.03	Rupees Fifty One and Zero Three Paise Only	1122.66
31	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	20	m	68.97	Rupees Sixty Eight and Nine Seven Paise Only	1379.40
32	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	10	m	88.28	Rupees Eighty Eight and Two Eight Paise Only	882.80
33	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	22	m	73.10	Rupees Seventy Three and One Paise Only	1608.20

34	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	22	m	133.79	Rupees One Hundred and Thirty Three and Seven Nine Paise Only	2943.38
35	1.17.15 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.6 x 2.5 sq. mm	5	m	201.38	Rupees Two Hundred and One and Three Eight Paise Only	1006.90
36	1.17.17 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in the existing surface / recessed steel/ PVC conduit as required.8 x 2.5 sq. mm	10	m	268.96	Rupees Two Hundred and Sixty Eight and Nine Six Paise Only	2689.60
37	90.10.1.2 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 compliant)2 module moulded plastic box on surface	10	E	209.48	Rupes Two Hundred and Nine and Foue Eight Paise Only	2094.80
38	1.28.1 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.1 or 2 Module	10	E	114.48	Rupees One Hundred and Fourteen and Four Eight Paise Only	1144.80
39	1.17.22 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 4 sq. mm	15	m	204.14	Rupees Two Hundred and Four and One Four Paise Only	3062.10

40	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	46	E	115.86	Rupees One Hundred and Fifteen and Eight Six Paise Only	5329.56
41	1.24.3 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.15/16 amp switch	2	E	157.24	Rupees One Hundred and Fifty Seven and Two Four Paise Only	314.48
42	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	75	E	111.72	Rupees One Hundred and Eleven and Seven Two Paise Only	8379.00
43	1.24.5 Supplying and fixing following modular switch/ socket on the existing modular plate & switch box including connections but excluding modular plate etc. as required.6 pin 15/16 amp socket outlet	2	E	211.03	Rupees Two Hundred and Eleven and Zero Three Paise Only	422.06
44	1.28.2 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.3 Module	2	E	125.52	Rupees One Hundred andTwenty Five and Five Two Paise Only	251.04
45	1.28.5 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.8 Module	23	E	208.27	Rupees Two Hundred andEight and Two Seven Paise Only	4790.21
46	od182981/2020_2021 Supplying and fixing 4-pole sheet steel enclosure conforming to IEC: 61439-3 on surface / in recess and suitable for mounting MCB / Isolator complete with connections, testing, commissioning etc. as required	2	E	405.65	Rupees Four Hundred and Five and Six Five Paise Only	811.30

47	od182982/2020_2021 Supply and testing the following ratings of recess mounting round LED down light fittings of all types complete with all accessories including driver in the existing opening of false ceiling, 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. 18W recess mounting round LED down light suitable for continuous operation with THD <10%, power factor >0.98 and RoHS compliant. (Make- Crompton-LSCRM-18WC DL, Havells, Philips or Wipro	10	E	1249.00	Rupees One ThousandTwo Hundred and Forty Nine Only	12490.00
48	90.3.12 Conveyance and fixing charges of recess mounting down light fittings of all types complete with all accessories in the existing opening of false ceiling, giving connections with the existing wire etc., as required	10	E	70.94	Rupees Seventy and Nine Four Paise Only	709.40
49	90.4.6 Conveyance, installation, testing and commissioning of wall mounting fans of all types using mounting brackets supplied along with the fan	4	E	120.93	Rupees One Hundred and Twenty and Nine Three Paise Only	483.72
50	od182983/2020_2021 Supply of wall mounting fan of the following sizes using mounting brackets supplied along with the fan and giving connections with the existing wire. (Make: Havells, Almonard, Bajaj or Crompton) 400 mm sweep wall mounting fan	4	E	1657.00	Rupees One Thousand Six Hundred and Fifty Seven Only	6628.00

51	1.17.29 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 6 sq. mm	60	m	158.62	Rupees One Hundred and Fifty Eight and Six Two Paise Only	9517.20
52	90.16.1.3 Supply and drawing bare earthing conductors of the following sizes along with wiring/ cables and giving connection as required3.15 mm copper conductor (10 SWG)	50	m	57.41	Rupees Fifty Seven and Four One Paise Only	2870.50
53	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
54	9.1.33 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 16 sq. mm (28mm)	2	set	351.72	Rupees Three Hundred and Fifty One and Seven Two Paise Only	703.44
55	1.17.20 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 4 sq. mm	5	m	108.96	Rupees One Hundred and Eight and Nine Six Paise Only	544.80
56	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 modularswitch, connection etc. as required.	1	E	560.00	Rupees Five Hundred and Sixty Only	560.00

57	od186749/2020_2021 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 4 sq. mm	60	m	63.45	Rupees Sixty Three and Four Five Paise Only	3807.00
58	od186750/2020_2021 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 2.5 sq. mm	5	m	42.76	Rupees Forty Two and Seven Six Paise Only	213.80
59	1.56 Supplying and fixing suitable size GI box with modular plate and cover in front on surface or in recess, including providing and fixing 2 Nos. 3 pin 5/6 A modular socket outlets and 2 Nos. 5/6 A modular switches, connection etc. as required. (For light plugs to be used in non residential buildings).	1	E	695.17	Rupees Six Hundred and Ninety Five and One Seven Paise Only	695.17
	TOTAL					175085.68
	Rounded to					175086.00

PAC RS 1,75,086.00 (Rupees One Lakh Seventy Five Thousand Eighty Six Only)

I/We agreed to execute the work

at Below estimate rate

at estimate rate

at Above estimate rate

CONTRACTOR

sd/-
UNIVERSITY ENGINEER