

## UNIVERSITY OF KERALA

## SUBDIVISION I KARIAVATTOM

## TENDER SHEDULE FOR THE KERALA UNIVERSITY PRESS BUILDING-ELECTRICAL AND MAINTENANCE WORKS

Sl. No	Item Description	Qty	Unit	Rate / Unit	Rate in Words	Amount
1	90.2.1.1 Supply and wiring points 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 FRLS 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. (RoHS compliant modular accessories).Single Control light point with 6A, plate ceiling rose - Short point	5	Point	949.77	Nine Hundred and Forty Nine Rupees Seventy Seven Paisa only	4748.85

2	<p>90.2.1.3 Supply and wiring points 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 FRLS 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. (RoHS compliant modular accessories).Single control light point without ceiling rose – Short point</p>	5	Point	895.09	Eight Hundred and Ninty Five Rupees Nine Paisa only	4475.45
3	<p>90.2.1.4 Supply and wiring points 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 FRLS 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. (RoHS compliant modular accessories).Single control ceiling fan point with 6 A, 3 plate ceiling rose &amp; with socket size stepped electronic regulator – Short point</p>	5	Point	1,442.71	One Thousand Four Hundred and Forty Two Rupees Seventy One Paisa only	7213.55

4	90.3.10 Supplying and providing extra H.G conduit down rod of 19 mm dia 2 x 1.00 m 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.	10	E	234.67	Two Hundered and Thirty four Rupees Sixty Seven Paisa only	2346.70
5	1.58 Supplying and fixing PVC batten/ angle holder including connection etc. as required.	5	E	107.12	One Hundred and Seven Twelve paisa only	535.60

6	od282570/2020_2021 Supply and providing BEE rated 9W LED bulb (B22 / E27) in the existing PVC batten / angle holder as Required.	5	E	150.98	One Hundred FiftyRupees Ninty Eight Paise only	754.90
7	90.4.1 Supply and installation of suitable size MS rod type fan clamp in the RCC slab as per IS 732 as required.	5	E	175.29	One Hundred and Seventy Five Rupees Twenty Nine Paise only	876.45
8	90.4.6 Conveyance, installation, testing and commissioning of wall mounting fans of all types using mounting brackets supplied along with the fan.	2	E	146.71	One Hundred and Forty Six Rupees Seventy One Paise only	293.42
9	od281104/2020_2021 Supply of 400 mm sweep, 1300 rpm oscillating type wall mounting fan having 3-speed control, oscillation control etc and suitable for operation on single phase 230 V, 50 Hz AC supply complete with continuous duty fan motor, plastic blades, chrome plated front and rear guards and all other accessories as required. (Make: Crompton-High Flo LG, Havells, Orient or Almonard)	2	E	2386.00	Two Thousand Three Hundred and Eighty Six Rupees only	4772.00
10	90.4.9 Charges for cutting holes suitable for accommodating exhaust fans above 305mm sweep and up to 450mm sweep including plastering colour washing etc. as required.	3	E	629.80	Six Hundred and Twenty Nine Rupees Eighty Paise only	1889.40

11	90.4.10 Conveyance, installation , testing and commissioning of exhaust fans of size up to 450mm in the existing opening, fixing necessary anchor bolts / bolt and nuts etc., as required including giving connections with the supplied wire along with the exhaust fan.	8	E	606.23	Six Hundred and Six Rupees Twenty Three paisa only	4849.84
12	od281115/2020_2021 Supply of the following size of exhaust fan and giving connections with required length of 24/0.20 mm 3-core PVC insulated and PVC sheathed copper conductor round flexible wire of grade 1.1 kV conforming to relevant ISS.  380 mm, single phase, heavy duty, 1400 rpm exhaust fan in metal frame. (Make: Havells, Almonard or Crompton)	8	E	2756.00	Two Thousand Seven Hundred and Fifty Six Rupees only	22048.00
13	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	245.18	Two Hundred and Forty Five Rupees Eighteen Paisa only	2451.80
14	90.10.1.3 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 compliant )3 module moulded plastic box on surface	10	E	251.18	Two Hundred and Fifty Rupees Eighteen Paisa only	2511.80
15	90.10.1.7 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 )9 module moulded plastic box on surface	10	E	350.96	Three Hundred and Fifty Rupees Ninty Six Paisa only	3509.60
16	od282383/2020_2021 Supplying and fixing following size / modules, metal surface box along with modular base & cover plate for modular switches as required. 12 Module	8	E	398.63	Three Hundred and Ninety Eight Rupees Sixty Three Paisa only	3189.04
17	od282384/2020_2021 Supplying and fixing following size / modules, metal surface box along with modular base & cover plate for modular switches as required. 18 Module	3	E	771.64	Seven Hundred and Seventy One rupees Sixty Four Paisa only	2314.92

18	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	135.59	One Hundred and Thirty Five Rupees Fifty Nine Paisa only	1355.90
19	1.28.2 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. As required.3 Module	10	E	151.86	One Hundred and Fifty One Rupees Eighty Six Paisa only	1518.60
20	od282053/2020_2021 Supplying and fixing following modular base & cover plate on existing modular metal boxes / surface boxes etc. as required. 9 Module	10	E	242.93	Two Hundred and Forty Two Rupees Ninty Three Paisa only	2429.30
21	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	80	E	101.69	One Hundred and One Rupees Sixty Nine Paisa only	8135.20
22	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	3	E	155.93	One Hundred and Fifty Five Rupees Ninty Three Paisa only	467.79
23	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	131.52	One Hundred and Thirty One Rupees Fifty Two Paisa only	2630.40
24	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	3	E	207.45	Two Hundred and Seven Rupees Forty Five Paisa only	622.35
25	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.	20	E	406.77	Four Hundred and Six Rupees Seventy Seven Paisa only	8135.40
26	1.26 Supplying and fixing modular blanking plate on the existing modular plate & switch box excluding modular plate as required.	5	E	37.97	Thirty Seven Rupees Ninty Seven Paisa only	189.85

27	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	30	M	97.71	Ninty Seven Rupees Seventy One Paisa only	2931.30
28	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	20	M	108.07	One Hundred and Eight Rupees Seven Paisa only	2161.40
29	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	50	M	63.73	Sixty Three Rupees Seventy Three Paisa only	3186.50
30	od282569/2020_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	20	M	42.03	Forty Two Rupees Three Paisa only	840.60
31	1.17.12 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 2.5 sq. Mm	35	M	89.49	Eighty Nine Rupees Forty Nine Paisa only	3132.15
32	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	20	M	145.08	One Hundred and Forty Five Rupees Eight Paisa only	2901.60
33	od282390/2020_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	467.18	Four Hundred and Sixty Seven Rupees Eighteen Paisa only	934.36

34	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 required 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)	1	E	6555.18	Six Thousand Five Hundred and Fifty Five Rupees Eighteen Paise only	6555.18
35	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/Isolator) 2 way, Double door	4	E	2440.62	Two Thousand Four Hundred and Fourty Rupees Sixty Two Paise only	9762.48
36	2.13.3 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 100 amps	1	E	1244.72	One Thousand Two Hundred and Forty Four Rupees Seventy Two Paise only	1244.72
37	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	4	E	402.70	Four Hundred and Two Rupees Seventy Paise only	1610.80
38	2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 V, residual current circuit breaker (RCCB), having a sensitivity current 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required. 40 amps	4	E	2490.79	Two Thousand Four Hundred and Ninty Rupees Seventy Nine Paise only	9963.16
39	od282449/2020_2021 Supplying and fixing 40 A, 10 kA, TP MCB (C-curve) suitable for 415 V, 50 Hz AC supply conforming to IS: 8828 / IEC: 60898 in the existing VDB complete with connections, testing, commissioning etc. as Required	4	E	1588.93	One Thousand Five Hundred and Eighty Eight Rupees Ninty Three Paise only	6355.72

40	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	32	E	237.28	Two Hundred and Thirty Seven Rupees Twenty Eight Paise only	7592.96
41	od141544/2021_2022 Supply of 20 W linear LED T8 tube (RoHS compliant) with extruded aluminium body, PC diffuser and inbuilt driver with double sided connection suitable for continuous operation on 230 V, 50 Hz AC supply and having THD <10%, power factor >0.98 etc as required. (Make- Crompton-LTT8-20, Philips or Havells)	57	E	497.00	Four Hundred and Ninty Seven Rupees only	28329.00
42	90.3.2 Conveyance installation testing and commissioning of pre-wired fluorescent fittings of all types complete with all accessories and fluorescent lamps etc. directly on wall or ceiling with Suitable size 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 or extending the original wiring and giving connections as required.	5	E	269.23	Two Hundred and Sixty Nine Rupees Twenty Three Paise only	1346.15
43	90.3.9 Conveyance, installation, testing and commissioning of pre-wired fluorescent fittings of all types complete with all accessories and fluorescent lamps etc. including supplying and fixing ball and socket arrangements on PVC round block, suspension down rod of 19 mm dia MS conduit up to 2x30cm 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.	5	E	533.09	Five Hundred and Thirty Three Rupees Nine Paise only	2665.45
44	Od141561/2021_2022 Supply of following size ceiling fan complete with all accessories including 300 mm long down rod, canopies, shackles, blades etc as required but excluding fan regulator and suitable for working on single phase 230 V, 50 Hz AC supply. (Make: Crompton-Hi Speed / plus, Havells-Aeroking, Orient or Bajaj) 1200 mm sweep ceiling fan.	8	No	1900.00	One Thousand Nine Hundred Rupees only	15200.00

45	od141563/2021_2022 Supply of industrial box type luminaire made of CRCA sheet with 0.50 mm thickness suitable for single T8 LED tube as required. (Make: Crompton-IGP161LT8-16 , Philips, Havells or Wipro)	12	E	401.00	Four Hundred and One Rupees only	4812.00
<b>TOTAL:</b>						<b>205791.64</b>
<b>GRAND TOTAL</b>						<b>205792.00</b>

***Rs.2,05,792/- (Rupees Two Lakh Five Thousand Seven Hundred and Ninty two only)***

.....I/We agree to undertake the above mentioned work:-

- 1) At the estimate rate.
- 2) At .....% below the estimate rate.
- 3) At .....% above the estimate rate.

Rate should be quoted both in figures and words

**CONTRACTOR**

**ASSISTANT EXECUTIVE ENGINEER I**