

**UNIVERSITY OF KERALA**

**ENGINEERING UNIT**

**Tender Schedule for Electrical works related to the renovation of Question Paper Room in the Controller of Examinations Building ,SH  
Campus,Palayam. (Retender)**

<b>Sl. No</b>	<b>Item Description</b>	<b>Qty</b>	<b>Unit</b>	<b>Rate / Unit</b>	<b>Rate in Words</b>	<b>Amount</b>
1	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.	2	E	518.93	Rupees Five Hundred and Eighteen and Nine Three Paise Only	1037.86
2	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.	4	E	490.93	Rupees Four Hundred and Ninety and Nine Three Paise Only	1963.72
3	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	35	m	72.03	Rupees Seventy Two and Zero Three Paise Only	2521.05
4	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	1	E	555.07	Rupees Five Hundred and fifty Five and Zero Seven Paise Only	555.07
5	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	1	E	119.90	Rupees One Hundred and Nineteen and Nine Zero Paise Only	119.90

6	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	1	E	309.79	Rupees Three Hundred and Nine and Seven Nine Paise Only	309.79
7	od124625/2020_2021 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 points - Short point.	5	point	522.75	Rupees Five Hundred and Twenty Two and Seventy Five Paise Only	2613.75
8	od124626/2020_2021 Supply and providing BEE rated 9W LED bulb (B22 / E27) in the existing PVC batten / angle holder as required.	5	E	144.41	Rupees One Hundred and Fourty Four and Four One Paise Only	722.05
9	od124627/2020_2021 Dismantling the existing single / double tube fluorescent fitting complete, cleaning,rewiring as per LEDtube light fittings and refitting the same in position and giving connections etc. as required	10	E	64.41	Rupees Sixty Four and Four One Paise Only	644.10

10	od124628/2020_2021 Supply and providing ISI marked 4 Kg dry chemical powder (ABC) fire extinguisher conforming to IS: 15683 along with hose and clamps including fixing it to wall as required. (Make- Ceasefire, Safex, Eco fire or Safe pro)	2	E	2376.83	Rupees Two Thousand Three Hundred and Seventy Six and Eight Three Paise Only	4753.66
11	od236718/2020_2021 Supply and testing the following types of light fittings made of CRCA sheet with 0.50 mm thickness complete with all accessories, lamps etc directly on wall or ceiling with PVC round block neatly painted to suit the fitting and giving connections with required length of 16/0.20 mm 3-core PVC insulated and PVC sheathed copper conductor round flexible wire of grade 1.1kV conforming to relevant ISS or extending the original wiring and giving connections as required. 1x20 W LED box type tube fittings with industrial box type luminaire suitable for single T8 LED tube and with 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-IGP161LT8-16 & LTT8-20, Philips, Havells or Wipro)	12	E	1166.00	Rupees One Thousand One Hundred and Sixty Six Only	13992.00
12	od124630/2020_2021 Supply of 300/305 mm sweep Light Duty Exhaust fan in metal frame working on 230 V A/C	2	E	1472.00	Rupees One Thousand Four Hundred and Seventy Two Only	2944.00
13	1.15.1 Rewiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVC insulated copper conductor single core cable and 1.5 sq.mm. FRLS PVC insulated copper conductor single core cable as earth wire in existing surface/ recessed steel/PVC conduit including dismantling as required.Group A	10	point	400.00	Rupees Four Hundred Only	4000.00

14	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	20	m	31.72	Rupees Thirty One and Seven Two Paise Only	634.40
15	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	40	m	68.97	Rupees Sixty Eight and Nine Seven Paise Only	2758.80
16	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	20	m	73.10	Rupees Seventy Three and One Zero Paise Only	1462.00
17	1.27.2 Supplying and fixing following size/ modules, GI box alongwith modular base & cover plate for modular switches in recess etc as required.3 Module (100mmX75mm)	4	E	255.17	Rupees Two Hundred and Fifty Five and One Seven Paise Only	1020.68
18	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	14	E	115.86	Rupees One Hundred and Fifteen and Eight Six Paise Only	1622.04
19	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	14	E	111.72	Rupees One Hundred and Eleven and Seven two Paise Only	1564.08

20	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)	3	E	409.65	Rupees Four Hundred and Nine and Six Five Paise Only	1228.95
21	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	1	E	560.00	Rupees Five Hundred and Sixty Only	560.00
22	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	2	E	459.79	Rupees Four Hundred and Fifty Nine and Seven Nine Paaise Only	919.58
23	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)	1	E	241.38	Rupees Two Hundred and Forty One and Three Eight Paise Only	241.38

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/Isolator12way, Double door	1	E	1587.57	Rupees One Thousand Five Hundred and Eighty Seven and Five Seven Paise Only	1587.57
25	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 Zero Paise Only	306.20
26	2.14.2 Supplying and fixing following rating, double pole, (single phase and neutral), 240 volts, residualcurrent 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	2371.20	Rupees Two Thousand Three Hundred and Seventy One and Two Paise Only	2371.20
27	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	12	E	238.62	Rupees Two Hndred and Thirty Eight and Six Two Paise Only	2863.44
28	1.17.20 Supplying and drawing following sizes of FRLS PVC insulated copper conductor, single core cable in theexisting surface / recessed steel/ PVC conduit as required.2 x 4 sq. mm	25	m	108.96	Rupees One Hundred and Eight and Nine Six Paise Only	2724.00

29	od124632/2020_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	25	m	42.76	Rupees Forty Two and Seven Six Paise Only	1069.00
30	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	10	m	82.03	Rupees Eighty Two and Zero Three Paise Only	820.30
31	od124633/2020_2021 Supply of 380 mm sweep, 900 rpm Heavy Duty Exhaust fan working on 230 V A/C	2	E	2351.00	Rupees Two Thousand Three Hundred and Fifty One Only	4702.00
32	1.14.4 Wiring for circuit/ submain wiring alongwith earth wire with the following sizes of FRLS PVC insulated copper conductor, single core cable in surface / recessed medium class PVC conduit as required 2 X 6 Sq.mm + 1 x 6 sq.mm earth wire	15	m	313.00	Rupees Three Hundred and Thirteen Only	4695.00
33	od236715/2020_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	1	E	405.00	Rupees Four Hundred and Five Only	405.00
34	2.13.2 Supplying and fixing following rating, four pole, 415 volts, isolator in the existing MCB DB complete with connections, testing and commissioning etc. as required. 63 amps	1	E	935.17	Rupees Nine Hundred and Thirty Five and One Seven Paise Only	935.17

35	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	35	m	314.48	Rupees Three Hundred and Fourteen and Four Eight Paise Only	11006.80
36	90.12.24.6 Supply of superior quality copper tubular cable socket and making core termination of cables of the following sizes including crimping etc. as required.25 sq mm	8	E	34.90	Rupees Thirty Four and Nine Zero Paise Only	279.20
37	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)	70	m	57.41	Rupees Fifty Seven and Four One Paise Only	4018.70
38	9.1.35 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 35 sq. mm (32mm)	2	set	390.34	Rupees Three Hundred and Ninety and Three Four Paise Only	780.68
39	od130212/2020_2021 Supplying and fixing 415 V 32 A TP & N metal case enclosure with TPN plug socket along with pin suitable for incorporating TPMCB/ RCCB (Less cost of MCB/RCCB) and making necessary connection etc as required	1	E	1082.59	rupees One Thousand Eighty Two and Five Nine Paise Only	1082.59



40	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
41	2.11 Supplying and fixing single pole blanking plate in the existing MCB DB complete etc. as required.	2	E	9.66	Rupees Nine and Six Six Paise Only	19.32
42	90.3.24.4 Supply & installation of light fittings suspended on ball & socket arrangement with 19 mm down rod Supply, 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 ball and socket arrangements on PVC round block, suspension down rod of 19mm 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. 1200 mm 2X20W LED Lamp with box type fixture	2	E	2015.79	Rupees Two Thousand Fifteen and Seven Nine Paise Only	4031.58
43	od236717/2020_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

44	1.10.1 Wiring for light point/ fan point/ exhaust fan point/ call bell point with 1.5 sq.mm FRLS PVCinsulated copper conductor single core cable in surface / recessed medium class PVC conduit,with modular switch, modular plate, suitable GI box and earthing the point with 1.5 sq.mm. FRLSPVC insulated copper conductor single core cable etc as required.Group A	15	point	755.86	Rupees Seven Hundred and Fifty Five and Eight Six Paise Only	11337.90
	TOTAL					110818.02
	<b>GRAND TOTAL</b>					<b>110818.00</b>

**PAC Rs1,10,818.00 (Rupees One Lakh Ten Thousand Eight Hundred and Eighteen Only)**

I/We agreed to execute the work

at ..... Below estimate rate

at estimate rate

at ..... Above estimate rate

**CONTRACTOR**

sd/-  
**UNIVERSITY ENGINEER**