

## Schedule

UNIVERSITY OF KERALA						
SUBDIVISION II, KARIAVATTOM						
TENDER SCHEDULE FOR THE REPLACEMENT OF DEFECTIVE FITTINGS AT DEPARTMENT OF BOTANY, KARIAVATTOM CAMPUS						
Sl. No	Item Description	Qty	Unit	Rate / Unit	Rate in Words	Amount
1	od143306/2021_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)	20	each	401.00	Four Hundred and One Rupees Only	8020.00
2	od143302/2021_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)	100	each	497.00	Four Hundred and Seventy Nine Rupees	49700.00
3	od274739/2020_2021 Supply of 450 mm sweep, 80 W, 1400 rpm oscillating type heavy duty pedestal 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, metal blades, stainless steel front and rear guards and all other accessories as required. (Make: Crompton, Havells, Orient or Almonard-Mark 2)	2	each	4675.00	Four Thousand Six Hundred and Seventy Five Rupees Only	9350.00
4	od274740/2020_2021 Supply of BEE rated 9W LED bulb (B22 / E27) (Orient/Philips/Havells)	35	each	105.00	One Hundred and Five Rupees Only	3675.00

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5	<p>od143257/2021_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)&lt;br&gt;1200 mm sweep ceiling fan.</p>	30	No	1900.00	One Thousand And Nine Hundred Rupees Only	57000.00
6	<p>od143265/2021_2022 Supply of SMD 70 W LED Streetlight fixture with System efficacy of 110 lm/W (7700 lumens). Luminaire shall be made up of die cast Aluminium housing with IP PC lens . Luminaire shall be designed with street optic LENS for uniform light distribution. LM 80-08 compliant LEDs from reputed makes such as Nichia/Cree/ Bridgelux/ Lumiled/ Osram/Seoul should be provided. LEDs used in the product shall comply with EN 62471 for Photo-biological safety and certificate for the same from manufacturer shall be provided. Luminaire shall be with IP66 protection. The LED shall be compliant with LM80-08 standard with L70 life of 50000 Hrs tested at maximum current (Complete LM 80 test report for LED should be submitted for 10000 hrs of testing). The LEDs used should be with CCT of 5700 K and CRI of Minimum 70. LED Driver shall be potted, Integrated type, Multistage, Isolated, APFC Constant Current-Constant Voltage operated driver with range 150-300V AC and Safety Extra Low Voltage &lt; 60V DC as per IEC standard., Driver Efficiency &gt; 86% &amp; 4 KV internal surge protection, Power factor greater than 0.95 and total harmonic distortion (THD) of less than 10% should be integral to the luminaire. Compliance to Indian Standards of IS10322 Part 5 / Sect 1:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012.(Wipro LR13-781-XXX-57-XX /Crompton/Havells/Philips)</p>	4	each	6452.60	Six Thousand Four Hundred and Fifty Two Rupees Six Zero Paisa only	25810.40

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<b>7</b>	<p>od143266/2021_2022  Supply, Conveyance, Installation, Testing and Commissioning of SMD 45W LED Streetlight fixture with System efficacy of 120 lm/W (5400 lumens). Luminaire shall be made up of die cast Aluminium housing with IP PC lens . Luminaire shall be designed with street optic LENS for uniform light distribution. LM 80-08 compliant LEDs from reputed makes such as Nichia/Cree/Bridgelux/ Lumiled/ Osram/Seoul should be provided. LEDs used in the product shall comply with EN 62471 for Photo-biological safety and certificate for the same from manufacturer shall be provided. Luminaire shall be with IP66 protection. The LED shall be compliant with LM80-08 standard with L70 life of 50000 Hrs tested at maximum current (Complete LM 80 test report for LED should be submitted for 10000 hrs of testing). The LEDs used should be with CCT of 5700 K and CRI of Minimum 70. LED Driver shall be potted, Integrated type, Multistage, Isolated, APFC Constant Current-Constant Voltage operated driver with range 150-300V AC and Safety Extra Low Voltage &lt; 60V DC as per IEC standard., Driver Efficiency &gt; 86% &amp; 4 KV internal surge protection, Power factor greater than 0.95 and total harmonic distortion (THD) of less than 10% should be integral to the luminaire. Compliance to Indian Standards of IS10322 Part 5 / Sect 1:1967; 16105 : 2012; IS 16106 : 2012; IS 15885 (Part2/Sec13) : 2012; IS 16108 : 2012.(Make : Wipro Item Code:LR06-311-XXX-57-XX /Crompton/Havells/Philips)</p>	4	each	4144.60	Four Thousand One Hundred and Fourty Four Rupees Six Zero Paisa Only	16578.40
<b>8</b>	<p>od274744/2020_2021  Supply of 380 mm sweep, 900 rpm Heavy Duty Exhaust fan working on 230 V A/C</p>	6	each	2351.00	Two Thousand Three Hundred and Fifty One Rupees Only	14106.00

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9	<p>od274745/2020_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;Single control light point with 6A, 3-plate ceiling rose - Short point.</p>	16	Point	1049.25	<p>One Thousand Fourty Nine Rupees Two Five Paise Only</p>	16788.00
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<b>10</b>	<p>od274748/2020_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)&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>	5	Point	466.43	Four Hunderd and Sixty Six Rupees Fourty Three Paisa Only	2332.15
<b>11</b>	<p>od274749/2020_2021  Supply of 300/305 mm sweep Light Duty Exhaust fan in metal frame working on 230 V A/C</p>	10	each	1472.00	One Thousand Four Hundred and Seventy Two Rupees Only	14720.00
<b>12</b>	<p>90.3.1  Conveyance, installation, testing and commissioning of pre-wired fluorescent light fittings with all accessories and fluorescent lamps of all types directly on wall and giving connections with 16/0.20 mm 3 core PVC insulated and sheathed round copper conductor flex wire or extending the original wiring and giving connections as required</p>	20	each	237.95	Two Hundred and Thirty Seven Rupees Nine Five Paisa Only	4759.00

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<b>13</b>	90.3.18.2 Supply, fabrication, conveyance and fixing the following sizes of B class GI pipe bent to shape / cut and welded to shape 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.32 mm dia with HG company fabricated clamps	10	meter	586.16	Five Hundred and Eighty Six Rupees One Six Paise Only	5861.60
<b>14</b>	90.3.18.3 Supply, fabrication, conveyance and fixing the following sizes of B class GI pipe bent to shape / cut and welded to shape 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.40 mm dia with clamps made from 20 x 3 mm MS flat	4	meter	625.12	Six Hundred and Twenty Five Rupees One Two Paise Only	2500.48
<b>15</b>	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.	10	each	629.80	Six Hundred and Twenty Nine Rupees Eight Zero Paise Only	6298.00
<b>16</b>	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	3	each	251.18	Two Hundred and Fifty One Rupees One Eight Paise Only	753.54
<b>17</b>	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	each	565.54	Five Hundred and Sixty Five Rupees Five Four Paise Only	565.54
<b>18</b>	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	each	122.85	One Hundred and Twenty Two Rupees Eight Five Paise Only	122.85

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<b>19</b>	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	each	316.69	Three Hundred and Sixteen Rupees Six Nine Paisa Only	316.69
<b>20</b>	od274750/2020_2021 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	100	each	89.29	Eighty Nine Rupees Two Nine Paisa Only	8929.00
<b>21</b>	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	5	Point	494.90	Four Hundred and Ninety Four Rupees Nine Zero Paisa Only	2474.50
<b>22</b>	1.23.1 Supplying and fixing following piano type switch / socket on the existing switch box/ cover including connections etc. as required.5/6 amps switch	25	each	54.24	Fifty Four Rupees Two Four Paisa Only	1356.00
<b>23</b>	1.23.4 Supplying and fixing following piano type switch / socket on the existing switch box/ cover including connections etc. as required.3 pin 5/6 amp socket outlet	10	each	69.15	Sixty Nine Rupees One Five Paisa Only	691.50
<b>24</b>	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	12	each	101.69	One Hundred and One Rupees Six Nine Paisa Only	1220.28
<b>25</b>	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	5	each	155.93	One Hundred and Fifty Five Rupees Nine Three Paisa Only	779.65
<b>26</b>	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	12	each	131.52	One Hundred and Thirty One Rupees Five Two Paisa Only	1578.24

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27	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	5	each	207.45	Two Hundred and Seven Rupees Four Five Paisa Only	1037.25
28	1.28.2 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.3 Module	3	each	151.86	One Hundred and Fifty One Rupees Eight Six Paisa Only	455.58
29	1.28.4 Supplying and fixing following Modular base & cover plate on existing modular metal boxes etc. as required.6 Module	5	each	197.96	One Hundred and Ninety Seven Rupees Nine Six Paisa Only	989.80
30	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)	1	each	317.28	Three Hundred and Seventeen Rupees Two Eight Paisa Only	317.28
31	1.33 Supplying and fixing 3 pin, 5 amp ceiling rose on the existing junction box/ wooden blockincluding connection etc as required.	10	each	77.29	Seventy Seven Rupees Two Nine Paisa Only	772.90
32	1.44 Installation, testing and commissioning of ceiling fan, including wiring the down rods of standardlength (upto 30 cm) with 1.5 sq. mm FRLS PVC insulated, copper conductor, single core cable etc.as required.	30	No	203.39	Two Hundred and Three Rupees Three Nine paisa Only	6101.70



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<b>33</b>	1.50.1 Installation of exhaust fan in the existing opening, including making good the damage connection testing, commissioning etc. as required.Upto 450 mm sweep	10	each	431.18	Four Hundred and Thirty One Rupees One Eight Paise Only	4311.80
<b>34</b>	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	10	each	237.28	Two Hundred and Thirty Seven Rupees Two Eight Paise Only	2372.80
<b>35</b>	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	5	each	402.70	Four Hundred and Two Rupees Seven Zero Paise Only	2013.50
<b>36</b>	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	5	each	989.81	Nine Hundred and Eighty Nine Rupees Eight One Paise Only	4949.05
<b>37</b>	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	10	each	2490.79	Two Thousand Four Hundred and Ninety Rupees Seven Nine Paise Only	24907.90
<b>38</b>	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 30 mA in the existing MCB DB complete with connections, testing and commissioning etc. as required.40 amps	3	each	3121.28	Three Thousand One Hundred and Twenty One Rupees Two Eight Paise Only	9363.84

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39	90.10.1.5 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 )6 module moulded plastic box on surface	5	each	283.96	Two Hundred and Eighty Three Rupees Nine Six Paise Only	1419.80
	<b>Total</b>					<b>315300.02</b>
	<b>GRAND TOTAL after round off:</b>					

*(Rupees Three lakh Thirteen thousand Five hundred 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

## Schedule

**CONTRACTOR**

**ASSISTANT EXECUTIVE ENGINEER**