

SCOPE OF WORK		
NAME OF DEPARTMENT		INDIAN INSTITUTE OF MANAGEMENT KOZHIKODE
TENDER No		IIMK/ELE/e72/2021-22
TENDER DESCRIPTION		Landscape light work for Management Development Centre in IIMK campus
Sl. No	Qty	Specification
1	26	Supply,Installation ,Testing and Commissioning of LED post mounted lantern, system wattage <20W, Housing / Body of fitting- Pressure Die cast or extruded Aluminum housing , cover - white/clear Polycarbonate. Finish-Similar to Pasolite make Royce gate light or equivalent.post height 2.5Mtrs, Aesthetically designed housing with matching color corrosion resistant coating,Protection –< IP 65 Optical and Control gear compartment, Surge protection min 2KV or above. Operating voltage-140-277 volt universal electronic driver, Frequency -50Hz / 60Hz,. Power factor> 0.9, Efficiency of luminaire -85%,Efficacy of LED >100 lumens/Watt. Type of LED - High power LED, Colour Warm White to Cool White, CRI->70.Impact resistance- IK07 standards or above. Heat dissipation / heat sink -Well designed Thermal management system with Aluminum heat sink, Warranty : the complete luminaries shall have not less than one yearscomprehensive warrenty for physical and photometric properties. Electrical safety as per IEC standards .Product qualities- Energy efficiency, High quality consistency, luminaries appearance. Makeof fixture Philips,Schreder,GE,Bajaj,Pasolite or equivalent.
2	26	Fabrication and Supply of lamp post from 'B' class,65mm,GI pipe, 2.5 Mtrs height above the ground including necessary reducers,holes and welded to the proposed GI pipe as required for lamp fitting as per the direction from the department and painting with two coats of best quality matching colour of enamel paint over the red oxide primor as required and welded to to the base plate and fixing on the proposed concrete block by using four Nos 20mm nut &bolt with washer.Make TATA/Jindal.
3	26	Supply and providing 200x200x5mm MS plate including necessary holes and welded to the proposed GI pipe firmly as base plate and fixing on the proposed concrete block by using four Nos 20mm nut &bolt with washer as per the directiom from the department as required.
4	300	Supply and Laying of 1 no. PVC insulated and PVC sheathed armoured aluminium power cable, 1.1 KV grade of 4 core,4sqmm sizes through the trench /GI pipe or directly buried in the ground with cable protection bricks,sand,and on walls with suitable clamps.Make Gloster,Vguard or equivalent
5	50	4x4Sq mm Cable termination:supply all materials,cutting,peeling terminating and connecting cables with gland and crimped aluminium lugs in respective switch box as required.
6	300	Drawing ,fixing of bare earthing conductors of 10 SWG copper conductor along with wiring/ cables and giving connection as required.

7	9	Supply,Installation ,Testing and Commissioning of Bullet shaped LED Bollard of system wattage 15W, BIS certified with a pressure die cast aluminium base and a protector made of LDPE (Low Density Polyethylene) having separate IP66 optical & control gear compartments, impact resistance of IK10 made out of robust construction, suitable for surface mounting. The luminaire shall have system efficacy of 50lm/w. Supplied pre cable (0.5m) for easy installation.Excellent photometry to maximise the spacing between the bollards. Suitable for on-ground mounting on 3xM10 bolts on 230mmPCD. System power of 15W, correlated colour temperature (CCT) of 4000K , colour rendering index (CRI) >70 and L70 rated lifetime of 50,000 hours. Electrical Class I, rated voltage 240Vac, Power Factor ≥ 0.95, with BIS certified potted driver having internal surge protection of 4 kV and an additional surge protection device (SPD) of 10kV.similar to KESSLEC BULLET BOLLARD 15W LED or equivalent.
8	2	Supply,installation,testing and commissioning of spot light for the name board,outdoor use, system wattage35-50 Watts.Make Philips,Bajaj or equivalent.
9	2	Supply,installation,testing and commissioning of flood light,outdoor use,system wattage35- 50 Watt lamp.Make Philips,Bajaj or equivalent.
10	26	Supply and providing 4x6" syntex box for proving connector,water proof,openable with hinch door as required.
11	30	Supply and providing 16A connector for the lamp fixing as required.
12		Wiring of circuit/subcircuit wiring along with earth wire with the following sizes of FRLS PVC insulated copper conductor,single core in surface/recessed including medium class PVC conduit ,as required.
a	150	2x1.5sq mm +1x1.5sq mm earth wire
b	50	2x2.5sq mm +1x2.5sq mm earth wire
13		Supply, fixing, testing & commissioning of following type moulded plastic box suitable for modular accessories in recess with matching colour with the interior complete as required.(Make CrabTree,Legrand modular Accessories)
14	8	2MD module box with plate
15	2	4MD do.....
16	4	Supply, recess fixing, testing & commissioning of 6 A, 2 / 3 pin shuttered socket controlled by 6Amps modular type switch complete as required.(Make CrabTree,Legrand)
17	4	Supply,recess fixing, testing & commissioning of 6 A SP 1 way switch modular type complete as required.(Make CrabTree,Legrand modular Accessories)
18	200	Supplying and fixing of 20mm medium class PVC conduit along with accessories in surface/recess including cutting the wall and making good the same in cases of recessed conduit as required.
19	2	supply and fixing of 6A,230V,SP lexic MCB.with suitable enclosure Make Legrand or equivalent
20	21	Providing concrete pedastel size 30x30x45cm with1:2:4 using normal size broken stone, for fixing 2.5Mtr posts including suitable mounting nut and bolts, with sleeves for looping /out for 4sq mm cables,etc all accessories as required.
21	6	Earth work excavation in all kinds of soil including hard soil at the depth not less than 60Cm for laying cables as per standard.

22	21	Plastering with cement mortar 1:4, 12mm thick one coat,colour washing ,two coats with approved colour at the required area with the existing colour and type of paint.
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