

Annexure Illumination

Illumination System: BOQ for receipt of material at Site, Unloading, Inspection, Verification , Storage, Up-keeping, Safety & Security, Material Handling, Erection Testing & Commissioning (ETC).

Supervision of ETC works shall be provided by the equipment supplier. The works include but not limited to the following:

1. ETC of Lighting Panels (LP) - including installation of accessories / mounting hardwares / anchor fastener / foundation bolt etc complete in all respect.
2. ETC of Lighting Luminaires - including installation of accessories i.e. mounting hardwares, anchor fastener, screw, nut bolt, mounting brackets for wall , ceiling, false ceiling, structure, street light pole, lighting mast, hanger pipe / chain etc complete in all respect.
3. ETC of Switchboards consisting of switch boxes, switches, switch plates and fixing accessories etc complete.
4. ETC of Junction boxes - including mounting hardware / accessories complete in all respect.
5. ETC of Receptacles - including mounting hardware / accessories complete in all respect.
6. ETC of fans - all types, emergency exit signboards, occupation sensors and other indoor items as per approved drawings.
7. ETC of PVC Wires.
8. Installation of conduits, erection hardware, and accessories.
9. Cabling (Covered as separate BOQ item) including laying, tagging , dressing, ferruling, lugging, installation of cable gland ,soldering, tapping, jointing, crimping, termination, and drilling/ cutting holes in cable gland plates- laying can be either on trays, hanger, supports, underground, buried in ground or through GI/PVC pipe over/under ground, through wall etc. All erection materials viz. ferrules, cable ties / straps, Al. tags, markers, GI / PVC wall sleeves with rubber / nylon bushes, cable lugs etc shall be supplied by bidder. excluding supply of Cable Gland which are covered separately (as separate BOQ item). Machine ferruling shall be adopted.
10. ETC of lighting high mast and street lighting poles as per specification.
11. Handing over of ladders - All types.
12. EARTHING - The earthing includes earthing of illumination equipment, structures, illumination trenches etc complete for illumination system. GS strip including cutting, bending, welding with 40 mm dia MS rod riser/GS strip, clamping to structure/building wall etc. to complete. Consumable required for welding is in bidder's scope. Hardware required for connecting of earthing material on structure, equipment, luminaries, switches etc complete included in scope. For rust protection, the welds shall be treated with zinc chromate primer and coated with zinc rich paint. Equipment bolted connections after being tested and checked shall be painted with anti corrosive paint/compound. (excluding supply of GI Flat, GI wire, Cu wire / braid, Al flat)

Indicative BOM of the supplies is attached as below which may be changed during engineering stage. Technical specification of illumination TB-397-316-020 Rev. 00 is attached. Bidder to quote accordingly.