

| FENI HIGH MAST LIGHTS | | | | | |
|-----------------------|---|----------------|-----|------|--------|
| ITEM | DESCRIPTION | UNIT | QTY | RATE | AMOUNT |
| 1. | FOUNDATION OF THE HIGH MAST LIGHTS | | | | |
| 1.1. | Excavation of the High Mast (4m x 4m x 1.2m) back fill and Compacting | | | | |
| 1.1.1. | Clearing vegetation and topsoil removal | m ² | 7.2 | | |
| 1.1.2 | Pickable soil | m ³ | 25 | | |
| 1.1.3 | Hard rock | m ³ | 38 | | |
| 1.2. | Concrete Material of 25Mpa strength (including DCP Test cube results) | | | | |
| 1.2.1. | Supply | m ³ | 48 | | |
| 1.2.2. | Labour | m ³ | 48 | | |
| 1.3. | Supply H.D. Bolts & Template set for 3 High Mast(Includes 12 x M36 Holding Down Bolts c/w 3 x nuts & 2 x Washers, including delivery) - Allow for 3 High Mast | | | | |
| 1.3.1 | Supply | No. | 3 | | |
| 1.3.2 | Install | No. | 3 | | |
| 1.4 | Earthing Comprising of 2 x Earth-Spike(s) with 70mm-Square Bare-Copper-Earth-Wire from Each Earth-Spike(s) to the Holding-Down-Bolts | | | | |
| 1.4.1 | Supply | No. | 6 | | |
| 1.4.2. | Install | No. | 6 | | |
| 1.5 | REINFORCEMENT FOUNDATION | | | | |
| | Steel Reinforcement for 3 High Mast (including Form work Material for 3 high Mast lights) - Allow for 3 High Mast | | | | |
| 1.5.1. | Supply | No | 3 | | |
| 1.5.1. | Install | No | 3 | | |
| 1.6. | Concrete foundation -Concrete strength shall be Grade 25 or Higher (including DCP Test and Test cube results) | | | | |
| 1.6.1. | Supply | m ³ | 18 | | |
| 1.6.2 | Install | m ³ | 18 | | |
| Sub-Total - 1 | | | | | |
| 2. | INSTALLATION OF 3 HIGH MAST LIGHS | | | | |
| 2.1. | High Masts Setting out of the 30m with 9 X 400W LED high mast equally spaced around mast luminaires. | | | | |
| 2.1.1. | Supply | No | 3 | | |
| 2.1.2 | Assembly and erection of masts | No | 3 | | |
| 2.2 | Delivery to site of the High MasT Lights | No | 3 | | |
| 2.3. | 400W LED Floodlights Luminaire for use on 30m Mast (9 Floodlight per highmast) | | | | |
| 2.3.1 | Supply | No. | 27 | | |
| 2.3.2. | Install | No. | 27 | | |
| 2.4 | 30 ton crane truck for erection for 8hrs per day | Sum | 1 | | |
| 2.5 | 5 Pin Electrical material in mast (Trailing Cables, DB box (es) and splitter(es) box included) | | | | |
| 2.5.1 | Supply | No. | 3 | | |
| 2.5.2 | Install | No. | 3 | | |
| 2.6 | Portable double drum winch (c/w 2 x 32m Stainless Steel Cables) | No. | 1 | | |

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|----------------------------------|--|----------|-----|-------------|--------------|
| 2.7 | 3 metre Test lead | No. | 1 | | |
| 2.8 | Electric power tool | No. | 1 | | |
| 2.9. | 4 Pin vandal proof key <i>(Please Note that theoretically only a single set of service equipment is required as the above quoted equipment is fully interchangeable (Items 2.6, 2.7, 2.8 and 2.9))</i> | No. | 1 | | |
| 2.10 | Electrical certificate of Compliance | No | 3 | | |
| Sub-Total 2 | | | | | |
| 3. | CABLE INSTALLATION FOR 5 HIGH MAST LIGHTS | | | | |
| 3.1. | Excavate & backfill cable trench 600mm deepx250mm wide | | | | |
| 3.1.1. | Pickable soil | m | 120 | | |
| 3.1.2. | Hard rock | m | 180 | | |
| 3.2. | 600/1000V PVC/SWA/PVC CABLES 16mm2 4c Stranded Cu for High Mast | | | | |
| 3.2.1 | Supply | each | 300 | | |
| 3.2.2. | Installation | each | 300 | | |
| 3.3. | CABLE ENDS Terminate & make off the following PVC/SWA/PVC cables by means of Pratley cable termination. 16mm2 4c | | | | |
| 3.3.1. | Supply | each | 6 | | |
| 3.3.2 | Installation | each | 6 | | |
| 3.4. | Through joints for the following 600/1000V PVC/SWA/PVC Joints shall be limited to a minimum. 16mm2 4c insulated, PVC Bedded, SWA, PVC sheathed Low | | | | |
| 3.4.1. | Supply | each | 15 | | |
| 3.4.2 | Installation | each | 15 | | |
| 3.5 | Provide & Install white 100mm Dia PVC cable Sleeves through roads | | | | |
| 3.5.1. | Supply | each | 15 | | |
| 3.5.2. | Installation [Labour Intensive] | each | 15 | | |
| 3.6. | Seal all cable sleeves with non-hardening watertight compound after installation of cables. | | | | |
| 3.6.1. | Supply | each | 6 | | |
| 3.6.2. | Installation [Labour Intensive] | each | 6 | | |
| 3.7. | Provide & Install concrete protection blocks between electrical cables & existing services | | | | |
| 3.7.1 | Supply | each | 6 | | |
| 3.7.2 | Installation | each | 6 | | |
| 3.8 | Provide & Install danger tape in all LV cable trenches at 300mm below Ground | | | | |
| 3.8.1. | Supply | m | 150 | | |
| 3.8.2 | Installation | m | 150 | | |
| 3.9. | Marking LV Terminations with PVC Lettering & Cable ties | | | | |
| 3.9.1 | 10mm2 | each | 6 | | |
| 3.9.2 | 6mm2 | each | 6 | | |
| 3.10 | Provide & Install galvanized steel downpipe complete with Strapping | | | | |
| 3.10.1 | Supply | m | 15 | | |
| 3.10.2. | Installation | m | 15 | | |
| Sub-Total - 3 | | | | | |
| 4 | ESKOM SUPPLY POINTS | | | | |
| 4.1. | Eskom connection fees (including material supplied by Eskom) required by Eskom for single phase connections to existing low voltage overhead infrastructure | Prov Sum | 3 | R 80,000.00 | R 240,000.00 |
| Sub Total - 4 | | | | | |
| 5 | COMMISSIONING AND HANDING OVER | | | | |
| 5.1. | Commissioning | No. | 3 | | |
| 5.2 | Handover | No. | 3 | | |
| Sub - Total-5 | | | | | |
| SUB-TOTAL for 1,2,3&5 | | | | | |