

SPECIFICATION FOR WATERPROOFING SOLAR POWERED HIGHMAST LIGHTS

1. Supply, delivery and installation of 120w mono-crystalline integrated solar flood light
2. Supply, delivery and installation of 20m galvanized steel pole with base plate
3. Supply, delivery and installation of anti-climbing device
4. Allow for loading and off-loading of poles
5. Allow for testing and commissioning of flood lights
6. Allow for concrete works with 20mpa strength on pole installations

PRE-QUALIFICATION REQUIREMENTS

1. Luminaire photometric data
2. Supplier warranty letter/ certificate for installation of the solar led flood lights
3. Company experience
 - Tenderer to submit three (3) or more similar projects completed **(40 points)**
4. Key personnel experience
 - Site agent - national diploma in electrical engineering 5 years or more years' experience **(20 points)**
 - Site foreman – electrical trade test with 5 years or more years' experience wireman's certificate. **(40 points)**
5. Methodology
 - Methodology submitted to cover the following subheadings: organogram
 - Execution plan
 - Programme of works.
 - Health and Safety measures
6. DEPARTMENT OF LABOUR ELECTRICAL CONTRACTOR REGISTRATION
7. LETTER OF GOODSTANDING(COIDA)

SCOPE OF WORK

1. The SPECIFICATIONS have been provided giving a detailed breakdown of what needs to be undertaken. The works involves the following:
 - Excavation for pole foundations 1.7m x 1.7m x 1.1m.
 - Pole to be a galvanized graded steel, 20m high.
 - Key features:
 - Lithium-ion based battery storage.
 - Solar
 - High Masts lights position to be confirmed by client upon appointment.

QUANTITIES

1. Ezibeleni Engineering Campus – 6 lights
2. Queenstown Campus – 3 lights

BASIC INFORMATION

1	Light Source	LED Lamp	Lamp Body Material	Aluminum
2	Light Type	Solar	Color Temperature	Warm White
3	Power	10W-120W	Illumination Time	24-36h
4	Charging Time (H)	5	Usage	Street
5	IP Rating	IP66	Certification	CE, RoHS
6	Voltage	12/24V	With Light Source	With Light Source
7	mAh	16000- 24000mAh/3.2V	LED Light	2835/3030
8	Solar Panel	12V/10~120W	Specification	73.5*42*12.8cm