

## Supply and Delivery of Bulbs and Light Fittings to NTCSA Central Grid

### Specification of Product or Goods

Suppliers are required to supply various light bulbs and light fittings in accordance with the following specifications per item.

#### 1. Battery Rooms Lights

- **Type 1 Fitting - Light fitting:**
  - Type: NLED 5ft (1500mm), 230V AC, 350mA, 50Hz
  - Power factor >0,9
  - 67W
  - **Rated lifetime: 50 000 Hr.**
  - **Flame Proof, Zone 1 - Zone 2 (Gas) & Zone 21 - Zone 22 (Dust)**
  - >= IP66
  - Luminous Flux: 6365lm
  - SABS 314 & IEC 60079 compliant
  
- **Type 2 Fitting – Emergency Light fitting:**
  - Type: NLED 5ft (1500mm), 230V AC, 350mA, 50Hz
  - Power factor >0,9
  - 67W
  - Rated lifetime: 50 000 Hr.
  - Flame Proof, Zone 1 - Zone 2 (Gas) & Zone 21 - Zone 22 (Dust)
  - >= IP66
  - Luminous Flux: 6365lm
  - Factory converted to emergency mod
  - SABS 314 & IEC 60079 compliant
  
- **Type 3 Fitting - 230V 50Hz AC Lamps:**
  - 100W T1 E27 Elliptical Incandescent Lamp
  - 60W T2 E27 Elliptical Incandescent Lamp
  
- **Type 3 Fitting - 24V DC Lamps:**
  - 100W T1 E27 Incandescent Lamp
  - 60W T2 E27 Incandescent Lamp

#### 2. Control and Carrier Rooms Lights

- **Type 1 Fitting - Light fitting:**
  - Type: 230V AC, 50Hz
  - 40W G13 Lamp base, T8 & T12 compatible
  - IEC 60598 compliant
  
- **Type 1 Fitting - 230V 50Hz AC Lamps:**
  - 40W T12 G13 Fluorescent Lamp
  - 36W T8 G13 Fluorescent Lamp

### 3. GIS Lights

- **Type 1 Fitting - Light fitting:**
  - Type: 230V AC, 50Hz
  - 400W HPS, E40 base
  - Fully equipped with Control Gear
  - IEC 60598 compliant
- **Type 1 Fitting - 230V 50Hz AC Lamps:**
  - 400W E40 HPS Elliptical Lamp
- **Type 2 Fitting (Old) - 230V 50Hz AC Lamps:**
  - 500W E40 MV Elliptical Lamp

### 4. Substation Flood Lights

- **Type 1 Fitting - Light fitting:**
  - Type: 230V AC, 50Hz
  - 400W HPS, E40 base
  - Fully equipped with switchgear & mounting bracket
  - $\geq$  IP55
  - IEC 60598 compliant
- **Type 1 Fitting - 230V 50Hz AC Lamps:**
  - 400W E40 HPS Tubular Lamp

### 5. Substation Perimeter Lights

- **Type 1 Fitting - Light fitting:**
  - Type: 230V AC, 50Hz
  - 70W HPS, G29 Lamp base
  - $\geq$  IP55
  - IEC 60598 compliant
- **Type 1 Fitting - 230V 50Hz AC Lamps:**
  - 70W G29 HPS Tubular Lamp
- **Type 2 Fitting - Light fitting (LED):**
  - Type: 230V AC, 50Hz
  - 60W LED
  - $\geq$  IP66
  - IEC 60598 compliant

### 6. Emergency Lights

- **Type 1 Fitting - Light fitting:**
  - Type: 230V AC, 50Hz
  - 70W HPS, E40 Lamp base
  - IEC 60598 compliant
- **Type 1 Fitting - 230V 50Hz AC Lamps:**
  - 70W HPS E40 Elliptical Lamp

