

**Government of India  
Bhabha Atomic Research Centre  
Multidisciplinary Research Group  
Applied Physics Division**

**Ref: APD/CB/MF/21/VTM/411**

17/03/2022

**Sub:- " Supply, Installation, Testing and commissioning of 70W and 20W LED street lights as per attached specifications "**

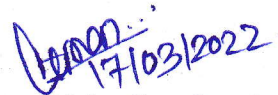
**Due Date: 24 March, 2022**

Dear Sirs,

1. Quotations are invited for the job, as per the enclosed specifications.
2. Bidder shall quote for work/fabrication of these items/materials/equipments with material.
3. Bidder shall take out an insurance policy in favor of BARC for any free issue material supplied.
4. Taxes shall be quoted separately. Form H shall be provided where necessary.
5. The quotations must reach Head, Applied Physics Division on or before the due date referred.
6. **The bidders must quote in a two part tendering system, which means that they will mention the technical specifications and financial terms in separate sealed envelopes, clearly mentioning which is which. These two separate envelopes viz. technical and financial will be enclosed in a bigger sealed envelope super scribed with the above reference number and due date.** If any party failing to submit offer in two part system, there offer will considered as invalid.
6. The address on the envelope should read:

**The Head,  
Applied Physics Division, PURNIMA LABS,  
Bhabha Atomic Research Centre  
Trombay, Mumbai - 400 085.  
Attn: Vijay Tanaji Mandharekar**

7. The work will be subject to inspection by our representative. Necessary inspection facilities should be provided to our engineers during fabrication/purchase at bidder's/manufacturer's premises.
8. The bidder shall consider the work is finished after approval by our representative, within the period as per mention in work order.
9. Head, Applied Physics Division, BARC, reserves all right to accept/reject any or all quotations without assigning any reason.
10. Payment will be made by cheque only after satisfactory completion of work on production of bill, delivery challan and advance stamped receipt. It may be noted that income tax @ 2% & GST TDS @ 2% will be deducted from your bill.
11. Job will be guaranteed against material and manufacturing defects for 1 year or may be standard manufacturer warrantee/guarantee from the **date of supply**.

  
Vijay Tanaji Mandharekar  
For and on behalf of  
Head, Applied Physics Division.

### **Supply, Installation, Testing and commissioning of 70W and 20W LED street lights:**

The scope of this work includes the SITC of street lights (70 W and 20 W) on the existing poles and wall fixtures at following site location.

Experimental High Pressure Physics Laboratory (EHPPL),  
Bhabha Atomic Research Centre  
Village: Chincholi, Taluka Ambernath, Distt. Thane - 421501.

The detailed specifications and quantity are described below.

#### **1. 70 W LED Street Light: Qty: 85Nos:**

This item includes **SITC** of 70W LED street lights, LED fixtures should be installed on the existing street light poles having an OD of 50 mm, as directed by departmental supervisor.  
Preferred make: Surya/Bajaj/Wipro/Crompton, meeting following specifications:

- a. Wattage: 70W;
- b. Lumen/watt:  $\geq 100$  Lm/Watt;
- c. Ingress Protection (IP Rating): IP66;
- d. Warranty for free replacement (in years): 5;
- e. Input operating Voltage range and frequency: 90 to 300 Volts AC at 50 Hz $\pm$ 2;
- f. Automatic Higher Cut off voltage: above 300 volts;
- g. Rated voltage: 230 V AC 50 Hz;
- h. AC Power Factor at full load: 0.95;
- i. LED chip Efficacy : 130 Lm/Watt;
- j. Colour temperature: 6000 $\pm$ 500K;
- k. Working life for LED: Minimum 50,000 burning hours;
- l. Colour Rendering Index(CRI): 70;
- m. Operating temperature range: -10 deg C to +55 deg C;
- n. Operating Humidity Range: 10 % to 95% RH;
- o. Protection:
  - i. Short circuit protection;
  - ii. Over Voltage protection;
  - iii. Over load protection

#### **2. 20 W LED Street Light: 80Nos:** This item includes **SITC** of 20W LED street light, fixtures should be install on existing street light pole/on building walls or as directed by departmental supervisor.

Preferred make Surya/Bajaj/Wipro/Crompton, meeting following specifications:

- a. Wattage: 20W;
- b. Lumen/watt:  $\geq 100$  Lm/Watt;
- c. Ingress Protection (IP Rating): IP66;
- d. Warranty for free replacement (in years): 5;

- e. Input operating Voltage range and frequency: 90 to 300 Volts AC at 50 Hz+/-2;
- f. Automatic Higher Cut off voltage: above 300 volt;
- g. Rated voltage: 230 V AC 50 Hz;
- h. AC Power Factor at full load: 0.95;
- i. LED chip Efficacy : 130 Lm/Watt;
- j. Colour temperature: 6000+/-500K;
- k. Working life for LED: Minimum 50,000 burning hours;
- l. Colour Rendering Index(CRI): 70;
- m. Operating temperature range: -10 deg C to +55 deg C;
- n. Operating Humidity Range: 10 % to 95% RH;
- o. Protection:
  - i. Short circuit protection;
  - ii. Over voltage protection;
  - iii. Over load protection.

**Notes:**

1. Warranty: Each LED light should carry a warranty of minimum five years.
2. The supplier shall be responsible for safe and timely delivery of all the items at site.
3. It is the responsibility of party to arrange man-power in suitable numbers, necessary tools and equipment at site, no transport arrangement will be provided by the department.
4. Laborers should have valid police verification certificate, otherwise they need to obtain it within 15 days after award of the work order.