

क्र. /2022/ क्रेडा /नि.क्र26222 / 2019

रायपुर दिनांक 27.02.2019

### सूचना पत्र


क्रेडा द्वारा सोलर स्टेण्ड एलोन स्ट्रीट लाईट संयंत्रों के प्रदाय व स्थापना हेतु दरों के निर्धारण हेतु निविदा क्रमांक 26222 दिनांक 08.02.2019 के तहत दरें आमंत्रित की गई है। निविदा अंतर्गत निविदा की शर्तों में निम्नानुसार संशोधन किया जाता है:-

S. No.	Item Reference of Tender	Amendment Made	Remarks
1	Eligibility Criteria Point No. 3 (Page No. 7)	Bidders must have positive Net Worth.	-
2	EMD Amount as per NIT Page No. 3 and Page No. 4,5 etc in the bid document	Bidders who are participating in: A. All the three types of category – EMD Amount is 5 Lacs. B. One or two types of category – EMD Amount is 3 Lacs. For Start-up Companies: A. All the three types of category – EMD Amount is 1 Lac. B. One or two types of category – EMD Amount is 0.50 Lac.	-

Apart from this some additional points have also been added in this bid:-

- Bidders who are registered as Start-up entity under Solar PV Module/PV System Integrator by Govt. of India or Govt. of Chhattisgarh shall be eligible for work allocation under this bid subjected to –  
A. Meeting other bid criteria including technical criteria.  
B. Acceptance of Price offer by CREDA as discovered in this bid.  
C. Non-meeting of Financial eligibility and experience criteria as mentioned under “eligibility criteria” head shall not be the reason for rejection of bid.  
D. Bidders who qualify under this section shall be allocated only 5% of the total work quantity.
- Bidders must also have to submit agreement copy with the vendor from whom they are purchasing the items/materials.
- Bidder coming into existence after 2015-16 must have a overall annual turnover of Rs 5 Crore in Solar of which they have to submit audited balance sheet of FY: 2016-17, 2017-18 as on 31st March and also provisional balance sheet of Fy: 2018-19 which needs to be certified by Chartered Accountant.
- Also a third type of category i.e., non-integrated type of Solar Stand Alone Street Light must be added in this bid. The detailed technical specification of this category along with the price bid separately has to be added (Enclosed).
- Bidders must have to submit LM 80 Test Report for LED.

निविदा की शेष नियम व शर्तें यथावत् रहेगी।

  
(राजीव खरे)  
मुख्य अभियंता

**Type - III: Specifications (Non-Integrated Type).**

Particulars	Model -I	Model -II	Model -II
PV Module	12V, 100Wp	12V, 150Wp	36V,200Wp
Battery	12.8V 40Ah	12.8V,60Ah	12.8V,80Ah
MPPT Charge Controller	10A	15A	15A
LED Lamp	35W	50W	70W
Lamp Material	Aluminium Alloy	Aluminium Alloy	Aluminium Alloy
Charge Time	4-5Hours (by Sun)	4-5Hours (by Sun)	4-5Hours (by Sun)
Autonomy	2 Days	2 Days	2 Days
Light Operation	1. Dusk to Dawn with motion Sensor. Or 2. Dusk to Dawn with 3 Hours full light level, 3hours at 60% brightness level and rest of the time at 30% light level		
Height of Pole	7 meters	7 meters	7 meters

**A. SOLAR PV MODULE:**

- The Solar PV module should have Crystalline silicon Solar Cells and must have a certificate of Testing conforming to IEC61215EditionII/BIS14286 from an NABL or IECQ accredited Lab.
- The module efficiency should not be less than 12 %.
- The terminal box on the module should have a provision for opening it for replacing the cable, if required.
- There should be a Name Plate fixed inside the module which will give:
  - Name of the Manufacturer or Distinctive Logo.
  - Model Number.
  - Serial Number.
  - Year of manufacture.

**B. BATTERY**

- Lithium Ferro Phosphate Battery with 100% DOD.
- The battery pack or cells should have BIS/IEC certifications.
- Cycle Life shall be > 2000 Cycles@100%DOD, 25°C and > 4000 Cycles@80%DOD, 25°C.
- Battery Pack should have built in BMS with necessary protections as per IEC Standard .

**C. CHARGE CONTROLLER**

- Charge Controller shall be Maximum Power Point Tracking (MPPT)with Dusk to lighting control.
- Self-Consumption shall be <20mA.
- Efficiency shall be >85%.
- It should have Indications a) Green --> Charging under process b) Red --> Battery Low / Fault.

*L. S. S.*

- Protection for reverse flow of current through the Solar PV module should be provided.
- The system should have protection against battery overcharge and deep discharge conditions
- Fuse should be provided to protect against short circuit condition.
- Adequate protection should be provided against battery reverse polarity.

#### **D. LED LIGHT**

- LED Type shall be High Power LED.
- LED Efficacy shall be 140 Lm/Watt.
- LED Make shall be CREEE / PHILIPS/OSRAM/SEOUL/NICHIA.
- Ingress Protection of the light shall be IP65.
- LED driver shall be DC-DC - Compatible for Solar Panel power.
- LED life cycle shall be 50000 Hours.
- Light should have LM-80 for LED confirmation to BIS or equivalent standards.

#### **E. MECHANICAL COMPONENTS**

- A corrosion resistant metallic frame structure should be fixed on the pole to hold the SPV module.
- The pole should be made of hot dip Galvanised Iron with min coating thickness 80 micron.
- Pole should be minimum 3" dia with 2.5mm thickness.
- The lamp housing should be water proof with IP 65 protection.
- A water resistant, vented and corrosion resistant metallic box or Polycarbonate box with a locking arrangement for Outdoor use should be provided for housing the battery and electronics.

#### **F. QUALITY AND WARRANTY**

- The street lighting system (including the battery) will be warranted for a period of five years from the date of supply.
- The Solar PV module(s) will be warranted for a minimum period of 25 years from the date of supply. The Solar PV modules must be warranted for their output peak watt capacity, which should not be less than 90% at the end of Ten (10) years and 80% at the end of Twenty five (25) years.

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## PRICE BID – C (TYPE – III).

### Schedule of Rates for Solar Street Light Systems.

*(As per Specifications & Scope of Work of  
E.Bid Document No.26222/CREDA/HOR/RE-3/Solar Street Light/2019 Date 08-02-2019)*

Design, Supply, Installation and Commissioning of **Solar Street Light Systems** including civil work foundation and other allied works with five years on site unconditional warrantee at various sites of Chhattisgarh State as per scope of work.

No.	Description	Rate/Unit (without GST)
A	Supply of Solar Street Light System (35W) with LFP Battery	
	Installation and Commissioning at site	
	<b>TOTAL (A)</b>	
B	Supply of Solar Street Light System (50W) with LFP Battery	
	Installation and Commissioning at site	
	<b>TOTAL (B)</b>	
C	Supply of Solar Street Light System (70W) with LFP Battery	
	Installation and Commissioning at site	
	<b>TOTAL (C)</b>	
<b>GRAND TOTAL (A+B+C)</b>		

Certified that rates quoted above are as per the requirement, specifications, and terms & condition mentioned in the bid document.

Above rates are FOR anywhere in the State of Chhattisgarh inclusive of roadworthy packing, loading, unloading, all types of incidental expenses, insurance, duties and any other job required to properly execute the work with 5 years warrantee as mentioned in the bid document. The GST payable on the bill produced for payment to CREDA shall be paid in addition to above quoted price as per rate of GST applicable at the time of billing.

(No other cost will be claimed above the price quoted)

**Name of the authorized Signatory:**

**Signature of the Authorized Signatory:**

**Seal of Company:**

**Date:**