

**CENTRAL ELECTRONICS LIMITED**  
(A Public Sector Enterprise)



**TENDER DOCUMENT**

**for the**

**“Supply of Multi-crystalline Solar Cells,  
(5 Bus Bar), Size 156.75x156.75mm±0.25mm or 157x157mm±  
0.25mm Wattage: ≥ 4.68wp”**

**Tender notice no. C-2(b)/RC/0700/8277/2021      dated 20-05-2021**

Asst. General Manager (Materials)  
Materials Management Division  
Central Electronics Limited,  
4, Industrial Area, Saur Urja Marg, Sahibabad – 201 010 (UP) INDIA  
Tel. No. 0091-120-2895145 Fax No. 0091-120-2895148  
Email: mmd@celindia.co.in Website: www.celindia.co.in



FORMAT NO. : CEL/FR/MMD-TN/03(01)

## CENTRAL ELECTRONICS LIMITED

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### TENDER NOTICE

Tender notice no. C-2(b)/RC/0700/8277/2021

20-05-2021

Central Electronics Limited invites OFFLINE bids (Technical & Financial) from eligible bidders which are valid for a minimum period of 45 days from the date of opening (i.e., 04-06-2021) for “Supply of Multi-crystalline Solar Cells, (5 Bus Bar), Size 156.75x156.75mm+-0.25mm or 157x157mm+- 0.25mm Wattage:  $\geq$  4.68wp”

<b>Scope of Work</b>	“Supply of Multi-crystalline Solar Cells, (5 Bus Bar), Size 156.75x156.75mm+-0.25mm or 157x157mm+- 0.25mm Wattage: $\geq$ 4.68wp”
<b>Earnest Money Deposit</b>	NIL
<b>Quantity</b>	1000000.00 Nos.

**Bidders are required to submit the Tender documents in two packet system (Technical Bid and Financial Bid are required to be submitted in separately sealed envelopes)**

Interested parties may view and download the tender document containing the detailed terms & conditions, free of cost from the website <https://eprocure.gov.in/epublish/app> or <http://www.celindia.co.in>

Please see important dates and Eligibility Criteria at Annexure -1.

For CENTRAL ELECTRONICS LIMITED

Sd-

**Asst. General Manager (Materials)**  
**Materials Management Division**

**Important Dates**

Tender Reference No.	<b>C-2(b)/RC/0700/8277/2021</b>
Name of Organization	Central Electronics Limited
Tender Type (Open/Limited/EOI/Auction/Single)	OPEN
Tender Category (Services/Goods/works)	Goods
Type/Form of Contract (Work/Supply/ Auction/Service/Buy/Empanelment/Sell)	Buy
Packet System	TWO PACKET SYSTEM
Payment Mode (Online/Offline)	Offline
Date of Issue/Publishing	20-05-2021 (15:00 Hours IST)
Document Download/Sale Start Date	20-05-2021 (15:00 Hours IST)
Document Download/Sale End Date	04-06-2021 (12:00 Hours IST)
Bid submission Start Date	20-05-2021 (15:00 Hours IST)
Last Date and Time for Submission of Bids	04-06-2021 (14:00 Hours IST)
Date and Time of Opening of Bids	04-06-2021 (15:00 Hours IST)

**Pre-Qualification/Eligibility Criteria:**

**Pre-Qualification Criteria:**

1. Detailed criteria as per annexure-II enclosed under Annexure-A.


Pre-Qualification is a must and only suppliers/bidders meeting them shall be technically evaluated

Note:

No Deviation from Specification, Terms & Condition of Tender allowed. Quotations having deviation from our specification, terms & condition would be rejected.


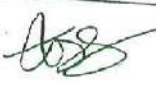

**TENDER DOCUMENT for Tender notice no. C-2(b)/RC/0700/8277/2021****Important Instructions: -**

1.	The following documents/Annexure are part of tender document:	
	i.	Tender notice along with Annexures (eligibility criteria)
	ii.	Details of item, specifications, etc. Annexure A
	iii.	Standard terms & conditions (GCC) Annexure B
	iv.	Special Terms & Conditions Annexure C
	v.	Format for submission of Vendor Data Annexure D
	vi.	Tender acceptance letter Annexure E
	vii.	BOQ format for submission of price bid Annexure F
2.	Quotations shall be liable to be rejected if there is/are any deviation(s) from the specifications.	
3.	Escalation in price, deviation from delivery schedule, terms and conditions will not be permitted in your quotation. Statutory Taxes & Duties should be shown separately from the price.	
4.	Bidder who is Micro & Small Enterprise should enclose copy of valid Certificate of Registration with DIC or KVIC or KVIB or Coir Board or NSIC or DHH or any other body specified by Ministry of Micro, Small and Medium Enterprises, Govt. of India to avail benefits under the "Public Procurement Policy for Micro & Small Enterprises (MSEs) Order 2012".	
5.	Catalogue, literature, specification details should accompany the quotation. Incomplete quotations are liable to be rejected.	
6.	Quotation should be submitted OFFLINE as per instructions given in tender.	
7.	<b>Any deviations whether technical or commercial stated anywhere in the bid shall not be taken into account and may render the bid non-responsible and liable to be rejected.</b>	
8.	Vendor Data should be submitted in the <b>Format for submission of Vendor Data</b> as per Annexure D.	
9.	Quotation should be submitted in <b>TWO PACKET SYSTEM</b> as per instructions in Annexure-C.	
10.	In case of any ambiguity between any terms given in Standard Terms & Conditions (GCC) at Annexure B and Special Terms and Conditions at Annexure C, the terms given in Special Terms & Conditions at Annexure C will prevail and override those at Annexure B.	
11.	Deviations from specifications, terms and conditions are not allowed. The bid of that bidder who mentions deviations anywhere in the technical bid would not be considered for price bid opening. The bid of bidder who mentions deviation in price bid would be rejected and such bidder may be barred/blacklisted for participation in future tenders.	
12.	Tender/Quotation/Bid should be submitted in Offline mode on www.etenders.gov.in. Last date of receiving of tenders/quotations is as per Document Control Sheet. The following are to be submitted in your quotation duly signed and stamped on all pages:  <b>Part A and inline to Pre-Qualification Criteria</b> <ul style="list-style-type: none"> <li>i. Filled up Format for Submission of Vendor Data as per format at Annexure D.</li> <li>ii. Data sheet/catalogue clearly showing that the offered material is meeting the specifications given in the tender.</li> <li>iii. Tender acceptance letter as per format at Annexure E.</li> <li>iv. Original Signed and stamped tender document (photocopy document is liable to be rejected).</li> </ul> <b>v. Compliance and acceptance of Annexure-I, II, III, IV and V is a must along with the documentary proof and any bid without compliance will be liable to be rejected.</b>  <b>Part B: (Financial Bid) and inline to Annexure 'F' :</b> <ul style="list-style-type: none"> <li>➤ Price Bid as per As per Annexure 'F' as asked in the relevant columns.</li> </ul>	

	<b>CENTRAL ELECTRONICS LIMITED</b>
	<b>SOLAR PHOTOVOLTAIC PRODUCTION</b>
	<b>TECHNICAL SPECIFICATION</b>
<b>ITEM: MULTI CRYSTALLINE SOLAR CELL 5 BUS BAR</b>	

Annexure-I

1. Dimension : 156.75 x156.75 mm ±0.25 mm or 157 x 157 mm ±0.25 mm
2. Wattage : ≥ 4.68Wp
3. Thickness : 200± 20 microns.
4. Front side : Uniform Silicon Nitride (SiN) Anti-reflection coating
5. All printed fingers should meet the below specification:
  - 5.1 Shift in printing of the fingers (on front side) and pads (on front and back side) ≤ 0.25 mm along the whole length and breadth of cell from all the cell sides.
  - 5.2 Radial shift in printed fingers: ≤ 1°
6. Bow : ≤ 1.5 mm
7. Metallization
  - 7.1 Easily solderable having good adhesion/peel strength of ≥ 1 N.
  - 7.2 Metallization
    - 7.2.1 Front – Silver bus bar width of 0.8 ± 0.2 mm.
    - 7.2.2 Back – Silver bus bar width of 1.5 ± 0.3 mm and Aluminum BSF.
    - 7.2.3 Number of bus bars five (Front & Back).
8. All cells should be free from the following defects:
  - 8.1 Chipping –V shape, edge chip, corner chips.
  - 8.2 Micro cracks, pin holes and other cracks.
  - 8.3 Discontinuity of metal printing lines.
  - 8.4 Colour variation between the cells.
9. The vendor shall attach photographs and drawings of front and back side of the solar cell, clearly indicating all the dimensions meeting the requirements of sl. no. 7.2 given above.

PREPARED BY	CHECKED BY	APPROVED BY	ITEM : SOLAR CELL
			ITEM NO : 1
			BOM NO : 15
			REVISION: 00
			DATE : 24.12.2020
			PAGE 1 OF 7