



**TENDER DOCUMENT  
FOR  
SELLING  
OF  
5 BUS BAR CUT SOLAR CELL (Approximate QTY.: 7.2 LAKHS Nos)**

**EOI Enquiry No.: ITI/NAINI/WORKS/2023/0457**

**Dated: 12<sup>th</sup> June, 2023**

In case of any clarifications on this notification and technical requirement, please contact -

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# ITI LIMITED

( A Government of India Undertaking )

Mirzapur Road, Naini,  
Prayagraj– 211010 (UP)INDIA

## TENDER DOCUMENT

**Tender Enquiry No.: ITI/NAINI/WORKS/2023/0457**

**Dated: 12<sup>th</sup> June,2023**

ITI Limited Invites Tender Document for Selling of 5 Bus Bar Cut Solar Cell (Approximate Qty.: 7.2 Lakhs Nos).

Scope of Work	Selling of 5 Bus Bar Cut Solar Cell (Approximate Qty.: 7.2 Lakhs Nos)
Tender Fee	NIL
Earnest Money Deposit	NIL

Interested parties may view and download the document containing the detailed terms & conditions, free of cost from the web site [www.eprocure.gov.in](http://www.eprocure.gov.in); & <http://www.itildindia.com>. **The interested bidder shall address the tender on**

The details of ITI's bank account for deposit/payment is as below:

- Beneficiary Name : ITI Limited, Naini
- Account Number/IBAN : 10554066331
- IFSC Code : SBIN0003486
- Beneficiary Bank Name : State Bank of India
- Beneficiary Bank Address : ITI Complex, Naini,  
Mirzapur Road, Naini, Prayagraj – 211010  
(UP) INDIA

### **Important dates**

Date of Issue/Publishing	12/06/2023
Last date of receipt of Clarification	26/06/2023 & 11.00 AM
Last Date and Time for Submission of Bid	26/06/2023 & 11.00 AM
Date and Time of Opening of Technical Bid	26/06/2023 & 11.30 AM
Date and Time of Opening of Financial Bid	Will be intimated after technical bid evaluation

## INTRODUCTION

ITI Limited, a Public Sector Undertaking under the Department of Telecommunication, Ministry of Communication and ITI, is a leading telecom equipment manufacturer and total solution provider in India. ITI has diversified in to solar project business and has established state of the art solar module manufacturing line of capacity 18 MWp per annum. ITI Limited is a ISO 9001, ISO 14001 and ISO 18001 certified manufacturing unit. Presently major customers of ITI are BBNL, BSNL, MTNL, defense, paramilitary forces and railways. The company has executed various turnkey orders such as Bharat-Net, Telecom Towers, UP Police headquarters. ITI make PV module are certified with BIS certification for wattage range from 40Wp to 325Wp.

### Objective/Purpose& Scope:

The purpose& Scope of this Short Expression of Interest is for Selling of 5 Bus Bar Cut Solar Cell (Approximate Qty.: 7.2 Lakhs Nos) as per below mentioned Technical Specification:

Parameter	Specification
Solar Cell	Multi Crystalline Silicon Solar Cell
Dimension	40 mm X 157mm $\pm$ 0.25 mm
Thickness	Over all cell 200 $\mu$ m $\pm$ 20 $\mu$ m
Colour	Light Blue/ Blue/ Dark Blue/ Indigo
Anti-Reflection coating	Anti-reflecting coating (Silicon Nitride)
Bow	Less than 50 Micron
Front Contact (-ve)	5 nos., 0.7 mm +/- 0.1 mm wide Silver Bus Bar (Continuous or discrete)
Back Contacts (+ve)	5 nos., 1.9 mm +/- 0.1 mm wide Silver Bus Bars with Aluminium back surface field (continuous or discrete)
Bus Bar Distance	31.2 mm $\pm$ 0.1 mm
Solder ability	Good solder ability of cell front & back contact with Copper Ribbon Sn-Pb(60-40)
Cell Efficiency at STC	18.80%
Cell Power (P <sub>m</sub> ) at STC	Minimum 1.17 W <sub>p</sub> (Tolerance-0%, +5%)
Short Ckt Current, I <sub>sc</sub>	2.254 A
Current at MPP (I <sub>mp</sub> )	2.119 A
Open Ckt Voltage, V <sub>oc</sub>	0.644 V
Voltage at MPP (V <sub>mp</sub> )	0.555 V
Fill Factor	81 %
Temperature Coefficient	I <sub>sc</sub> (Alpha): 0.06%/K
	V <sub>oc</sub> (Beta): -0.32%/K
	P <sub>mpp</sub> (Gamma): -0.39%/K
All cells are free from following visual defects-	
1. Edge Chipping, Edge Broken	
2. Micro Cracks, Pin Holes.	
3. Discontinuity of metal printing lines	
4. Any spot, spillage or spear of paste	
5. Colour variation of ARC	
6. Non uniform printing or spreading of fine lines	

**Taxes & Duties:** GST/SGST/CGST/IGST as applicable.

**Delivery:** Ex-Works.

**Delivery Schedule:** 2.5 Lakhs per month starting from 1<sup>st</sup> Aug, 2023.

**Payment Term:** Payment to be made before taking delivery of the material.

**Material Inspection:** Buyer may inspect the material before accepting the material. ITI Cell tester will be provided on request for sample testing of cut solar cell. No claim will be entertained after the dispatch of the material.

**Security Deposit:** H1 bidder to deposit 10% of the bid value as security deposit immediately on confirmation by ITI. Remaining 90% to be deposited by H1 buyer before the delivery of material.

**Award of Contract:**

Bidders/Buyers offering the highest quote  
rate shall be declared as the H1 Bidders/Buyers. The Financial Bid format is enclosed.

- ITI reserve the right to accept or reject any or all offers and provide work order full or part quantities or cancellation thereof without assigning any reason whatsoever. Successful bidder only will be intimated by post through/email/letter of intent/firm orders.
- In case H1 bidder does not purchase the material due to any reason, ITI reserve right to decide the sale to other bidder, without any claim by H1 bidder.