



**NATIONAL INSTITUTE OF TECHNOLOGY**  
**ROURKELA-769008 (ODISHA)**  
(An Institute of National Importance under Ministry of HRD, GOI)

**NOTICE INVITING TENDER**

**Tender Notification No: NITR/PW/EE/2019/92**

**Dated: 12/02/2019**

The National Institute of Technology, Rourkela invites bids from the eligible bidders for procurement of **Solar\_PV\_Simulator\_Emulator** at NIT Rourkela.

Last date of submission of bid: **05/03/2019 at 03:00 PM**

Opening date of technical bid: **06/03/2019 at 03:00 PM**

**For Details:** [http://nitrkl.ac.in/OldWebsite/Jobs\\_Tenders/9Equipment/Default.aspx](http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx)

Contact: Prof. Susovon Samanta, EE; Ph. 0661-2462420;

Email ID: [samantas@nitrkl.ac.in](mailto:samantas@nitrkl.ac.in)

Bidding through: <https://eprocure.gov.in/eprocure/app>

sd/-  
**REGISTRAR**



# NATIONAL INSTITUTE of TECHNOLOGY ROURKELA – 769 008, ODISHA

(OPEN TENDER NOTICE NO.: NITR/PW/EE/2019/92

Date: 12/02/2019)

(Procurement of **Solar\_PV\_Simulator\_Emulator** at NIT Rourkela)

SL. NO	Description of Goods/Service	Quantity
01.	<b>Solar PV Emulator</b> (Detailed specification as per attached Annexure – I)	1

1. **Quantity required Delivery:** As mentioned above (All information provided in technical specification)
2. **Delivery:** Within **60 days** from the date of purchase order.
3. **Last Date of submission of Tender** : **05/03/2019** at **03:00 PM**
4. **Date of opening of technical bid** : **06/03/2019** at **03:00 PM**
5. The firm should not have been black listed at any time.
6. The submission of following bids by the tender should be through <https://eprocure.gov.in/eprocure/app>.
7. Please follow the guidelines as per the portal.

**Procurement of Solar\_PV\_Emulator at NIT Rourkela**

**(Tender Notice No.: NIT/PW/EE/2019/92 dated 12/02/2019) Due on  
05/03/2019 at 03:00 PM**

8. Liquidated damage clause will be charged for any delay in supply of goods.
9. The validity of the tender shall be **90 days** from the date of opening of the bids.
10. Detailed advertisement including all tender documents is also available in our website at
11. [http://nitrkl.ac.in/OldWebsite/Jobs\\_Tenders/9Equipment/Default.aspx](http://nitrkl.ac.in/OldWebsite/Jobs_Tenders/9Equipment/Default.aspx).
12. NIT reserves the right to qualify or deny pre-qualification of any or all applicants without assigning any reasons.

**(REGISTRAR)**  
**NIT, Rourkela**  
**Fax No- 0661-2462022**  
**Ph. No -0661-2462021**

**DETAILED TECHNICAL SPECIFICATION PURCHASE OF SOLAR\_PV\_EMULATOR**

**TECHNICAL SPECIFICATION**

- Power Rating: (Output)
  - a) >1.5 kW to <5 kW
  - b) Voltage Per Channel 0-50 VDC
  - c) Current Per Channel 0-10 A
  - d) Per Channel Rating (MAX) 400W
  - e) Maximum Voltage Rating (Absolute) 200 VDC
- MPPT---Tracking Ad-On
- Interfaces:
  - a) USB Interface- USB 2.0 for data logging & booting applications
  - b) Serial interface- UART (RS232/422/485) interface
- Display elements:
  - a) Programmable buzzer/alarming for overcurrent status
  - b) Programmable status LEDs and Display for status
- Cooling:

Active Cooling (temperature-controlled fan)
- Physical characteristics:
  - a) Power supply- 100 to 240 V AC , 50 to 60 Hz
- Softwares/User-interface:
  - a) Data logging
  - b) Programmed for Customized I-V Characteristic

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