



Indian Institute of Technology Jodhpur

N.H. 62, Nagaur Road, Karwar, Jodhpur - 342030, Rajasthan (India)

☎ 0291-2801352 | ✉ office_ee@iitj.ac.in

Website: Department: <https://www.iitj.ac.in/electrical-engineering/> | IITJ: www.iitj.ac.in

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations

For Procurement of Solar Array Simulator

1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure **Solar Array Simulator** for academic and research purposes.

Before initiating the formal procurement process, the Institute invites **Technical Information And Indicative Pro Forma Quotations** from eligible Original Equipment Manufacturers (OEMs) or their authorized representatives.

2. Purpose

The objectives are to:

- Obtain technical information from prospective OEMs/authorized representatives.
- Obtain indicative Pro forma quotations for estimating the procurement cost.

3. Disclaimer

This document is issued **only for obtaining technical information and indicative Pro Forma quotations**.

Submission of information under this proposal:

- shall **not** be treated as a financial bid;
- shall **not** constitute any commitment on the part of IIT Jodhpur to procure the equipment;
- shall **not** confer any right upon the participating firm for award of any future contract;
- shall **not** automatically qualify the responding firm for participation in any future tender.

The Institute reserves the right to modify the technical specifications, estimated cost, procurement methodology, or procurement timeline based on its requirements.

4. Equipment Details

- Name of Equipment: Solar Array **Simulator**
- Quantity: 01



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- Broad Functional Requirements (The essential functions or capabilities that the equipment should have, without mentioning a specific make, model, or brand):

The Indian Institute of Technology Jodhpur intends to procure an integrated **Solar Array Simulation System** for teaching, laboratory instruction, student projects and research in photovoltaic (PV) energy systems. The proposed system shall provide a programmable platform for emulating photovoltaic module and array characteristics under configurable operating conditions, enabling testing and evaluation of PV power electronic systems, Maximum Power Point Tracking (MPPT) algorithms and related renewable energy applications.

The system shall preferably be of **modular architecture**, allowing standalone and combined operation of individual simulator modules, thereby providing operational flexibility, ease of maintenance and provision for future expansion. The system shall be supplied complete with the necessary software, engineering workstation, measurement and monitoring facilities, communication interfaces, accessories, installation, commissioning and training required for complete operation.

The broad functional requirements are indicative and may be revised by the Institute after evaluation of the technical information received from prospective suppliers.

Sl. No.	Parameter	Broad Functional Requirement
1	System Type	Integrated modular Solar Array Simulation System suitable for teaching, laboratory instruction, student projects and research in photovoltaic energy systems.
2	Output Rating	Minimum aggregate programmable output power of 10 kW . The system may comprise one or more programmable simulator modules.
3	Output Voltage	Maximum programmable output voltage of 1000 V DC .
4	Modular Architecture	Capability for standalone and combined operation of simulator modules with provision for future system expansion.
5	PV Array Modelling	Capability to emulate configurable photovoltaic module and array characteristics with programmable I–V and P–V characteristics based on user-defined module parameters and array configurations.
6	Environmental Simulation	Provision for programmable solar irradiance and cell temperature profiles under steady-state and dynamic operating conditions.
7	Dynamic Performance	Capability to simulate dynamic irradiance variations, cloud transients, partial shading conditions and support evaluation of Maximum Power Point Tracking (MPPT) algorithms.
8	Measurement & Monitoring	Integrated facilities for real-time measurement, monitoring, visualization and data logging of electrical parameters.



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9	Communication Interface	Standard communication interfaces for configuration, monitoring, control and data transfer.
10	Software	Integrated software for PV array modelling, simulator configuration, operation, visualization, data logging and performance analysis.
11	Accessories	Engineering workstation (Min. 32 GB RAM and 1 TB SSD), necessary software, interconnecting cables and all essential accessories required for complete operation.
12	Installation & Support	Complete supply, installation, testing, commissioning, documentation, onsite training and minimum three-year comprehensive onsite warranty with after-sales technical support in India.

5. Eligibility Criteria

Interested firms should:

- Be an Original Equipment Manufacturer (OEM) or an authorized distributor/dealer.
- Have experience in supplying similar equipment.
- Have adequate installation and after-sales service support in India.

6. Information/Documents to be Submitted

The interested firms shall submit the following (*Annexure-I*):

1. Company Profile.
2. Details of the OEM.
3. Product Brochure/Catalogue.
4. Detailed Technical Specifications.
5. Compliance with the Broad Functional Requirements.
6. List of previous users/clients with installation reports
7. Details of Warranty.
8. Details of After-Sales Service Support.
9. Authorization Letter from OEM (where applicable).
10. Any additional technical information relevant to the offered equipment.

7. Pro forma Quotation

- Interested firms are requested to submit a Pro forma Quotation (*Annexure-II*) along with their Request For Technical Information and Pro Forma Quotations response. Indicative **Pro Forma** quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training, and any other associated charges. Wherever applicable, the Annual Maintenance Contract (AMC) and/or Comprehensive Maintenance Contract (CMC) charges and spare parts shall be quoted separately as additional charges.



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- Expected delivery schedule and other relevant technical and commercial information.

Important Note:

- The **Pro Forma** quotation is required only for cost estimation and budget planning purposes.
- The prices quoted shall be indicative/non-binding.
- The Pro Forma quotation shall not be treated as a financial bid.
- Submission of a **Pro Forma** quotation shall not confer any right or preference in the subsequent procurement process.

8. Presentation/Demonstration

The Institute may invite for a technical presentation or product demonstration. The date and venue shall be communicated separately.

9. Submission:

Interested firms may submit their Proforma Quotations on or before the due date in sealed cover or through email (as applicable).

The envelope/email should be superscribed as:

"Request For Technical Information and Pro forma Quotations for Procurement of Solar Array Simulator"

8. Important Dates

Activity	Date
Publication	18 th July 2026
Last Date for Submission	31 st July 2026
Technical Presentation (if required)	To be informed
Clarification Meeting (if required)	To be informed

10. General Terms & Conditions

1. This **Request For Technical Information and Pro forma Quotations** is issued only for obtaining technical information and **Pro Forma** estimates.
2. The Institute reserves the right to accept or reject any or all responses without assigning any reason.
3. Submission of an **Request For Technical Information and Pro forma Quotations** does not create any contractual obligation.
4. The Institute may seek additional information, technical clarifications, demonstrations, or presentations from any participant.
5. The Institute may modify the technical requirements based on the responses received.



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6. The final technical specifications may be prepared by the User Committee after evaluating all **Request For Technical Information and Pro forma Quotations** responses.
7. The subsequent procurement, if any, shall be carried out through an appropriate procurement method in accordance with the GFR 2017 and applicable procurement rules.
8. Participation in this **Request For Technical Information and Pro forma Quotations** does not automatically entitle any firm to participate in or receive any preference during the subsequent tender process.

11. Contact Details

Name: Dr. Vineeth V

Designation: Assistant Professor

Department: Electrical Engineering

Email: vineeth@iitj.ac.in



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Annexure-I

Request For Technical Information and Pro forma Quotations Response Format

1. Name of the Firm:
2. Registered Address:
3. Name of OEM (if applicable):
4. Contact Person:
5. Email:
6. Phone:
7. Product Name and Model:
8. Brief Technical Description:
9. Compliance with Broad Functional Requirements:
10. List of previous users/clients with installation reports:
11. After-Sales Service Details:
12. Any Additional Features:
13. Remarks (if any).



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Annexure-II

Format for Pro forma Quotation

Sl. No.	Description	Amount (INR)
1	Indicative Pro forma quotation in Indian Rupees (INR), including the cost of the equipment, essential accessories, taxes, duties, freight, insurance, installation, commissioning, training, and any other associated charges.	

Warranty Period: _____

AMC/CMC Charges (after warranty): _____

Delivery Period: _____

Authorized Signatory

Name: _____

Designation: _____

Company Seal & Signature