



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 Microgrid Test Kit

1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure **Microgrid Test Kit** 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: Microgrid Test Kit
- 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 **two Microgrid Test Kits** for teaching, laboratory instruction, student projects and research in modern power systems, renewable energy integration and smart grid technologies.*

Each Microgrid Test Kit shall be an integrated laboratory platform capable of emulating the operation of distributed energy resources, energy storage systems and controllable loads under both grid-connected and standalone operating conditions. The proposed systems shall facilitate studies on microgrid control, energy management, renewable energy integration, power electronic conversion, power quality and real-time monitoring.

Each set-up shall be supplied as a complete turnkey laboratory system comprising renewable energy source emulators, energy storage interface, power electronic converters, digital controller, data acquisition system, engineering workstation, software, instrumentation and all accessories required for satisfactory operation. The systems shall preferably be modular and expandable to facilitate future integration with additional renewable energy sources, advanced controllers and Hardware-in-the-Loop (HIL) platforms.

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 Configuration	Two independent Microgrid Test Kits suitable for teaching, laboratory instruction, student projects and research in renewable energy and smart grids.
2	Renewable Energy Sources	Provision for integration or emulation of renewable energy sources such as solar photovoltaic, wind energy and fuel cell systems or equivalent distributed energy resources.
3	Energy Storage System	Integrated battery energy storage system with suitable Battery Management System (BMS), charging/ discharging capability and monitoring facilities.
4	Power Electronic Conversion	Bidirectional power electronic converters/inverters suitable for DC-AC and DC-DC power conversion and microgrid operation.
5	Load Bank	Configurable AC and DC load banks suitable for conducting microgrid operational studies under different loading conditions.



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6	Control Platform	Real-time digital controller with suitable analog/digital I/O and standard communication interfaces for implementation of microgrid control and energy management algorithms.
7	Data Acquisition & Monitoring	Integrated real-time data acquisition system with facilities for monitoring, visualization, recording and export of electrical parameters.
8	Measurement & Instrumentation	Integrated measurement facilities for voltage, current, power, frequency, power quality and other relevant electrical parameters using suitable sensors and instrumentation.
9	Software	Integrated software for system configuration, operation, monitoring, data acquisition, visualization, energy management and performance analysis.
10	Engineering Workstation	OEM-recommended high-performance engineering workstation suitable for controller programming, software execution, data acquisition, system monitoring and engineering analysis.
11	Expandability	Provision for future integration with additional distributed energy resources, advanced controllers, communication networks and Hardware-in-the-Loop (HIL) platforms.
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



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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.
- 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



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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 a **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.
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