

EXPRESSION OF INTEREST (EOI)

**Design, Supply, Installation, Testing, Commissioning and Comprehensive
Operation & Maintenance (O&M)**

of

**2.2 MWp Hybrid Solar PV Plant with 8 MWh Distributed Usable Battery
Energy Storage System (BESS)**

at



विद्याधनं सर्वधनं प्रधानम्

IIT JAMMU

**Jagti Campus
Jammu (J&K), INDIA**

EOI Reference No.: IITJMU/OMS/EOI-02/2026-27

Date: 24-07-2026

Issued by: Indian Institute of Technology Jammu Jagti, PO Nagrota, NH-44, Jammu –
181221, Jammu & Kashmir

INVITATION FOR EXPRESSION OF INTEREST

IIT Jammu invites sealed Expression of Interest (EOI) from eligible Agencies/Firms/Institutes/Organizations for the Design, Supply, Installation, Testing, Commissioning and Comprehensive Operation & Maintenance (O&M) of a 2.2 MWp Solar PV Plant with 8 MWh Distributed Usable Battery Energy Storage System (BESS) at IIT Jammu, Jagti Campus on SITC basis. The EOI Document containing the details of qualification criteria, submission requirements, brief objectives & scope of work, evaluation criteria, and other relevant information can be downloaded from the Institute website: www.iitjammu.ac.in

EOI No.	IITJMU/EOI
Name of Work	Design, Supply, Installation, Testing, Commissioning and Comprehensive Operation & Maintenance (O&M) of 2.2 MWp Hybrid Solar PV Plant with 8 MWh Distributed Usable Battery Energy Storage System (BESS) at IIT Jammu
Location	IIT Jammu Jagti Campus
Time/Period of Completion	10 months
Date of Issue/Publishing	24-07-2026
Document Download/Sale Start Date	24-07-2026
Date of online/offline presentation by vendors	04-08-2026
Last Date and Time for Uploading of Bids	14-08-2026
Date & Time of Opening of EOI	17-08-2026
Estimated cost	To be Submitted as a Preliminary Estimate by the agency along with the technical proposal.

1. Introduction

Indian Institute of Technology Jammu (IIT Jammu), an Institute of National Importance, is committed to achieving energy sustainability and establishing a state-of-the-art renewable energy research testbed on its campus.

To meet this objective, IIT Jammu intends to implement the project as below:

- a) Addition of **2.2 MWp Hybrid** Solar PV capacity (1 MWp on building rooftops + 1.2 MWp on elevated pathway structures) integrated with **8 MWh** distributed usable Lithium-Ion Phosphate (LFP) Battery Energy Storage System (BESS)/ Other battery technologies may also be considered based on **cost, technical advantages and disadvantages** using grid-tied hybrid inverters. Grid Connection - Existing Utility Grid, System Architecture - Solar + BESS + Grid Hybrid

The combined system will create a modern, distributed, research-oriented microgrid with advanced monitoring, existing SCADA integration, IoT-enabled status alerts/controls, multiple tracker technologies, and full support for experimental research on new inverters, battery chemistries, control algorithms, and power quality improvement.

This **Expression of Interest (EOI)** is issued to identify experienced and technically capable vendors / EPC contractors / system integrators who can execute these complex projects with high quality, adhering to the detailed technical specifications. Interested agencies may come up with design options along with System survey of IIT Jammu.

2. Objective of the EOI

The objective is to identify best possible option for such a solution by maximizing renewable energy utilization, improve energy resilience, reduce grid dependency, enable peak saving, and provide backup power capability.

The primary objective of this EOI is:

- a) To get possible design of such requirement from reputed firms having proven expertise in **solar PV + BESS** projects, especially distributed/micro-inverter-based systems and research-grade microgrids.
- b) To Shortlist most suitable designs from qualified vendors for the subsequent **Request for Proposal (RFP)** / detailed tender stage.
- c) To gather preliminary feedback/suggestions on the technical specifications to refine the final tender documents.

Note: This EOI is **not a tender** and does not constitute any commitment on the part of IIT Jammu to award the contract. IIT Jammu reserves the right to accept or reject any or all responses without assigning any reason.

3. Project Highlights (Summary)

- a. **Solar Capacity:** 2.2 MWp (Technology mix: 80% Fixed + 5% each Single-Axis, Dual-Axis, Active & Passive Trackers)
- b. **BESS Capacity:** 8 MWh (distributed LFP/ Other battery technologies, ~5–6 kWh per kW of solar)
- c. **Inverters:** Micro / Grid-Tie Hybrid Inverters (1 kW & 3 kW/100kW/ As per standard) – DCR / Made-in-India required
- d. **Special Features:** Elevated aesthetic structures with usable space underneath, full IoT/SCADA/research platform, VAPT-compliant cybersecurity
- e. Seamless integration with existing SCADA and 33 kV grid connection (JPDCL)

4. Scope of Work (Indicative)

The selected vendor(s) will be responsible for:

- a. Detailed engineering design option as per desired technical specifications
- b. Supply of all equipment (modules, micro-inverters, batteries, BMS, trackers, structures, cables, protection devices, etc.)
- c. Civil & structural works (elevated rooftops & pathway structures)
- d. Site Assessment, Safety requirements, Fire Protection, Electrical Works, Battery Management System, EMS, Factory Acceptance Test, Site Acceptance Test.
- e. Installation, testing, and commissioning
- f. Integration with existing SCADA
- g. Cybersecurity compliance (VAPT) and research platform features
- h. Training of IIT Jammu staff/researchers
- i. Comprehensive O&M for minimum 5–10 years (to be finalized in RFP)

5. Eligibility / Pre-Qualification Criteria (Minimum)

Interested parties must meet the following criteria (documentary proof required):

- a. **Company Registration:** Legally registered in India (Company / LLP / Partnership) with valid GST, PAN.
- b. **Experience:**
 - i. Minimum 3 successfully commissioned similar projects of cumulative capacity ≥ 5 MWp in the last 7 years.
 - ii. At least 1 project of ≥ 1 MWp with integrated BESS (minimum 2 MWh) in the last 5 years.
 - iii. Experience in micro-inverter or distributed inverter-based solar systems will be given preference.
- c. **Technical Capability:** In-house or tie-up capability for advanced BMS, EMS, SCADA integration, and cybersecurity (IEC 62443 or equivalent).
- d. **Blacklisting:** The firm should not be debarred /blacklisted by any Central Government / State Government/PSU / Institute of National importance as on date of submission.
- e. **Certification:** The applicant must hold valid and current ISO 9001, ISO 14001, and ISO 45001 certifications issued by an accredited certification body. Documentary proof of the certifications shall be submitted along with the EOI
- f. **Made-in-India Preference:** Preference will be given to vendors offering DCR-compliant / indigenous inverters and batteries as per Government of India guidelines.
- g. **QCBS methodology will be applicable in RFP evaluation / detailed tender stage.**

Consortium/Joint Venture bids are allowed (maximum 2 members) with clearly defined roles.

6. Submission Requirements

Submission Mode: Soft copy only via email to: oic.estate@iitjammu.ac.in

with subject as “**Response to EOI No. IITJMU/RE/EOI/Solar + BESS/2026-01**”.

7. Important Conditions

- a. This EOI is purely exploratory. No financial bid is required at this stage & only feasible design options are expected.
- b. IIT Jammu reserves the right to shortlist any number of vendors or cancel the EOI without any liability.
- c. All information submitted will be treated as confidential.
- d. Any canvassing or attempt to influence will lead to disqualification.
- e. Shortlisted vendors will be invited to submit detailed technical & price bids in the subsequent RFP/detailed tender stage.

8. Contact for Queries

For any clarification, please contact:

OIC (Estate) Office

Indian Institute of Technology Jammu

Jagti, Jammu – 181 221

Email: oic.estate@iitjammu.ac.in

Phone: 8146701825