



Indian Institute of Technology Jodhpur

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

☎ 02912801826 | ✉ office_enauto@iitj.ac.in

Website: Department: <https://iitj.ac.in/aero> | IITJ: www.iitj.ac.in

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations

For Procurement of Pressure and Flow Measurement System with a Data Acquisition System

1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure a **Pressure and Flow Measurement System with a Data Acquisition System** as a teaching demonstrator.

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

2. Purpose

- The objectives are to:
- Obtain technical information from prospective OEMs/authorised representatives.
- Obtain indicative Pro Forma Quotations for estimating the procurement cost.
- Identify suitable systems/devices for pressure and flow measurement as a teaching demonstrator
- Evaluate accessories for data acquisition system with the above measurement devices

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.



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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: **Pressure and Flow Measurement System with a Data Acquisition System**
- Quantity: **01**
- Broad Functional Requirements:
Attached

(The above requirements are indicative and may be revised after evaluation of the responses.)

5. Eligibility Criteria

Interested firms should:

- Be an Original Equipment Manufacturer (OEM) or an authorised 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.
- Expected delivery schedule and other relevant technical and commercial information.



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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 Pressure and Flow Measurement System with a Data Acquisition System"

8. Important Dates

Activity	Date
Publication	03/08/2026
Last Date for Submission	12/08/2026
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 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.



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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 Himanshu Dave

Designation: Assistant Professor

Department: Aerospace Engineering

Email: himanshudave@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



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Technical Specification - Pressure and Flow Measurement System with a Data Acquisition System

Sl. No.	Equipment/Component	Technical Specification
1	Pressure Measurement System	Complete pressure measurement system comprising absolute, gauge and differential pressure sensors suitable for laboratory experiments in fluid mechanics, thermodynamics, heat transfer and turbomachinery. Sensors shall be supplied with digital readout and computer interface.
2	Absolute Pressure Sensors	Pressure transmitters with measuring ranges of 0–1 bar, 0–5 bar, 0–10 bar and 0–20 bar, accuracy better than $\pm 0.25\%$ Full-Scale. Analog output (0–10 V and/or 4–20 mA). Fluid Medium: Air, Water, and Steam.
3	Gauge Pressure Sensors	Pressure transmitters with measuring ranges of 0–1 bar, 0–5 bar, 0–10 bar and 0–20 bar, suitable for compressed air, water and non-corrosive gases. Accuracy better than $\pm 0.25\%$ Full Scale. Fluid Medium: Air, Water, and Steam
4	Differential Pressure Sensors	Differential pressure transmitters with ranges of ± 250 Pa, ± 1 kPa, ± 10 kPa, ± 100 kPa and ± 1 bar, accuracy better than $\pm 0.25\%$ Full Scale. Suitable for pressure drop and flow measurement experiments. Fluid Medium: Air, Water, and Steam
5	Flow Measurement Devices	Flow measurement system comprising digital flow meters suitable for air and water. The system shall include variable-area (rotameter), turbine or paddlewheel type flow meters and digital mass/volumetric flow meters, as applicable.
6	Air Flow Measurement	Digital flow meter for compressed air with measuring range appropriate for laboratory use (minimum 0–500 SLPM), accuracy better than $\pm 1\%$ of reading, digital display and analog output.
7	Water Flow Measurement	Digital flow meter with measuring range suitable for laboratory hydraulic experiments (minimum 0–100



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		LPM), accuracy better than $\pm 1\%$ of reading, pulse and analog outputs.
8	Temperature Measurement	Type-K thermocouples, PT100 RTDs and associated signal conditioning modules. Measurements range from -50°C to 1000°C with digital acquisition capability.
9	Signal Conditioning Modules	Universal signal conditioning modules supporting voltage, current (4–20 mA), thermocouple, RTD and frequency inputs. Isolation and noise filtering shall be provided.
10	Data Acquisition System	Computer-based modular Data Acquisition (DAQ) system with minimum 16 simultaneous analog input channels, 16-bit or higher resolution, sampling rate of at least 100 kS/s aggregate, expandable architecture and USB/Ethernet interface.
11	Analog & Digital I/O	Minimum 2 analog output channels, 8 digital input/output channels and counter/timer functionality for laboratory control and measurement applications.
12	Display & Monitoring	Real-time display of pressure, flow and temperature measurements with graphical user interface. Live numerical display, trend plots and engineering unit conversion shall be available.
13	Software	Data acquisition software compatible with Windows operating system for sensor configuration, calibration, real-time monitoring, data logging, graphical visualization and export to CSV, Excel and MATLAB-compatible formats. Lifetime institute license preferred.
14	Computer Interface	USB and Ethernet connectivity with drivers for MATLAB, LabVIEW and Python. Communication through standard industrial protocols shall be preferred.
15	Calibration	Factory calibration certificates traceable to national or international standards shall be provided for all sensors and flow meters.



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16	Accessories	Complete accessories including pressure tubing, fittings, manifolds, valves, mounting brackets, electrical cables, connectors, sensor holders and carrying/storage cases.
17	Documentation	Complete operation manuals, calibration certificates, software manuals, wiring diagrams, laboratory experiment manuals and maintenance documentation in English.
18	Installation & Training	Complete installation, commissioning and minimum three-day on-site training covering sensor operation, calibration, software usage, data acquisition and routine maintenance.
19	Warranty	Minimum three-year comprehensive warranty covering all sensors, DAQ hardware, software and accessories.