



Indian Institute of Technology Jodhpur

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

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Website: Department: www.iitj.ac.in/enauto | IITJ: www.iitj.ac.in

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations

For Procurement of Scanning Mobility Particle Sizer Spectrometer

1. Introduction

The **Indian Institute of Technology Jodhpur (IIT Jodhpur)** intends to procure a **Scanning Mobility Particle Sizer Spectrometer** for advanced research in engine exhaust particle emissions, transient emission measurements, and vehicle emission characterization.

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 for supplying the system along with all necessary accessories, software, installation, commissioning, and training.

2. Purpose

The objectives are to:

- Obtain technical information from prospective OEMs/authorized representatives.
- Obtain indicative Pro Forma Quotations for estimating the procurement cost.
- Identify suitable systems for real-time engine exhaust particle size distribution and concentration measurements.
- Evaluate available technologies for transient particle emission measurements from internal combustion engines.
- Assess compatibility with engine testing facilities, and combustion laboratories planned at IIT Jodhpur.

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;

4. Equipment Details

- Name of Equipment: **Scanning Mobility Particle Sizer Spectrometer**



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- 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 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.
- 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.



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- 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 Scanning Mobility Particle Sizer Spectrometer"

8. Important Dates

Activity	Date
Publication	22-07-2026
Last Date for Submission	01-08-2026
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.
6. The final technical specifications may be prepared by the User Committee after evaluating all **Request for Technical Information and Pro forma Quotations** responses.



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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 Srijit Biswas

Designation: Assistant Professor

Department: Energy and Automotive Engineering

Email: sbiswas@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 Specifications – Scanning Mobility Particle Sizer (SMPS) Spectrometer

Sl. No.	Parameter	Technical Specification
1	Equipment Type	Scanning Mobility Particle Sizer (SMPS) Spectrometer
2	Purpose	Measurement of particle size distribution and particle number concentration of aerosols and nanoparticles for engine emission studies.
3	Measurement Principle	Operates on the principle of unipolar particle charging, electrical mobility classification, and charge detection
4	Particle Size Range	5.6–560 nm
5	Size Resolution	32 channels
6	Time Resolution	10 Hz
7	Response Time	Less than 1.8 seconds
8	Particle Concentration Range	Up to 1×10^9 particles/cm ³ at the primary diluter inlet
9	Dilution Ratio	Adjustable from 10:1 to 500:1
10	Maximum Sample Temperature	Suitable for raw exhaust gas sampling up to 500°C
11	Sample Flow Rate	10 L/min
12	Sheath Flow Rate	40 L/min
13	Applications	Engine exhaust particle measurements, CI and SI engine studies, diesel and gasoline particulate filter (DPF/GPF) evaluation, and emission measurements.