



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations

For Procurement of Vibrating Sample Magnetometer (VSM)

1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure **Vibrating Sample Magnetometer (VSM)** 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: Vibrating Sample Magnetometer (VSM)
- Quantity: 01
- Broad Functional Requirements (The essential functions or capabilities that the equipment should have, without mentioning a specific make, model, or brand):



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

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

S. No.	Parameter	Required Specification
1.	Magnetic Field	
	Magnetic field range	± 2.5 Tesla or more
	Field resolution	10^{-4} tesla or better
	Field stability	± 0.01 Tesla or better
	Field sweep	Continuous and step sweep modes
	Field control	Fully automated
2.	Temperature Specifications	
	Parameters	Require/Desired specifications
	Minimum acceptable	100 K to 800 K or better
	Temperature stability	± 0.5 K or better
	Automated temperature control	Required
	Low-temperature cryogenic	Option supported
3.	Sensitivity and Measurement Performance	
	Magnetic moment sensitivity	1×10^{-7} emu or better
	Wide dynamic measurement range	Required
	Low-noise detection electronics	Required
	Automatic background correction	Desirable
4.	Measurement Modes	
	M-H hysteresis loops	Required
	M-T measurements	Required
	ZFC and FC measurements	Required
	Remanence and coercivity measurements	Required
	FORC measurement	Required
	Rotational hysteresis and anisotropy	Required
	Time-dependent magnetization	Required



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

	Magnetic susceptibility measurements	Required
5.	Sample Handling	
	Sample loading	Easy sample mounting and replacement
	Sample Mass	≤10 g
	Sample support	Thin-film, Powder and bulk sample, Pellet and Liquid holders
	Quartz and non-magnetic sample holders	Required
	Calibration/reference sample	to be supplied
6.	Rotational and Anisotropy Measurements	
	Rotation range	0–360 degrees
	Angular resolution	0.1 degree or better
	Sample Rotation Reproducibility	≤1 degree
	Maximum sample space	≥20 mm
	Angular measurements	Automated angular-dependent measurements
7.	Electronics and Controller	
	Controller	Dedicated VSM controller
	Computer-controlled magnetic field and temperature control	Required
	Data acquisition	Digital feedback and data acquisition
	communication interface	USB/LAN
	Protection against field and temperature faults	Required
	Auxiliary input/output	desirable
8.	Software Requirements	
	Instrument control	Required
	Real-time plotting	Required
	M-H and M-T analysis	Required
	Automated measurement sequencing	Required
	Data export (CSV/TXT/XLS)	Required



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

	Curve fitting	Required
	Batch processing, Offline analysis	Required
	Permanent software license preferred	Required
9.	Accessories to be Supplied	
		Software package Computer/workstation
		Additional Standard sample holders
		User manuals
		Cryogenic temperature option (4K or better)
		Rotator stage
		UPS and power conditioner
		Chiller/cooling unit
10.	Installation and Training	
	On-site installation and commissioning	Required
	Minimum two days of user training preferred Training shall include	• Sample preparation • Instrument operation • Magnetic measurements • Data analysis • Preventive maintenance
	India-based service support preferred	Required
11.	Warranty and AMC	
	Minimum 3-year comprehensive warranty	Required
	Availability of spare parts for at least 10 years	Required
	AMC quotation for 3 years after warranty	Required

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.



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

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.
- 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).



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

The envelope/email should be superscribed as:

"Request For Technical Information and Pro forma Quotations for Procurement of Vibrating Sample Magnetometer (VSM)"

8. Important Dates

Activity	Date
Publication	12 Aug. 2026
Last Date for Submission	20 Aug. 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.
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. Ravi Prakash Srivastava

Designation: Assistant Professor

Department: Materials Engineering

Email: ravip@iitj.ac.in



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

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).



Indian Institute of Technology Jodhpur

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

☎ 0291-2801552 | ✉ office_materials@iitj.ac.in

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

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