



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 Table Top XRD

1. Introduction

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



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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	Requirement
1.	X-ray Source	➤ Water-cooled or equivalent maintenance-free X-ray source. ➤ Cu Kα radiation. ➤ Tube voltage: up to 30–40 kV. ➤ Tube current: up to 10–15 mA. ➤ Tube power: $\geq$ 600 W (40 kV, 30 mA) ➤ Long-life sealed X-ray tube.
2.	Goniometer	➤ θ–θ and θ–2θ geometry. ➤ High-precision goniometer. ➤ Angular range: 2θ: -2°–155° or wider. ➤ Minimum step size: $\leq 0.01^\circ$. ➤ Angular reproducibility: $\pm 0.002^\circ$ or better.
3.	Detector	➤ High-speed solid-state detector. ➤ Zero or minimal dead time. ➤ High count-rate capability. ➤ 0D/1D/2D detector
4.	Sample Stage	➤ Standard powder sample holder. ➤ Easy loading and unloading. ➤ Spinner attachment preferred. ➤ Provision for a low-background sample holder.
5.	Measurement Modes	➤ Continuous scan ➤ Step scan ➤ Thin-film analysis
6.	Software	Software should include: ➤ Instrument control. ➤ Data acquisition. ➤ Peak search. ➤ Background subtraction. ➤ Kα2 stripping. ➤ Smoothing. ➤ Phase identification. ➤ PDF database compatibility. ➤ Quantitative phase analysis. ➤ Rietveld refinement. ➤ Crystallite size and strain analysis. ➤ Report generation. ➤ Export in ASCII, CSV, PDF, and image formats.



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7.	Accuracy	➤ Peak position accuracy: $\leq 0.02^\circ$. ➤ Intensity reproducibility: Better than 1%.
8.	Safety	➤ Fully enclosed radiation-safe cabinet. ➤ Door interlock. ➤ Radiation leakage complying with international safety standards. ➤ Emergency stop. ➤ X-ray ON warning indicators.
9.	Computer	➤ Latest compatible workstation. ➤ Windows operating system. Minimum: ➤ Intel Core i7 or better. ➤ 16 GB RAM. ➤ 1 TB SSD. ➤ 24-inch monitor. ➤ Licensed operating system.
10.	Accessories	➤ Standard powder sample holders (minimum 10 Nos.). ➤ Low-background sample holder. (04) ➤ Silicon calibration standard. ➤ Alignment tools. ➤ Tool kit. ➤ User manuals.
11.	Installation	➤ Installation. ➤ Commissioning. ➤ Performance verification. ➤ Radiation safety testing. ➤ User training.
12.	Warranty	Minimum 3 years comprehensive warranty covering: ➤ X-ray tube. ➤ Detector. ➤ Electronics. ➤ Software. ➤ Mechanical components.
13.	AMC	Additional 3 year AMC after warranty period should be provided
14.	Documentation	Vendor shall supply: ➤ IQ/OQ documentation (if applicable). ➤ Factory acceptance certificate. ➤ Calibration certificate. ➤ Test reports. ➤ Radiation safety compliance certificate.



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15.	Optional Accessories	➤ Sample spinner. ➤ Automatic sample changer. ➤ Capillary stage. ➤ High-temperature stage.
16.	Compliance	➤ CE certified. ➤ IEC radiation safety compliant. ➤ NFC ➤ ISO 9001 certified manufacturer. ➤ Installation list in reputed research institutes, IITs, IISERs, CSIR laboratories, or equivalent.

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.



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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 Table Top XRD"

8. Important Dates

Activity	Date
Publication	05 Aug. 2026
Last Date for Submission	13 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.



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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. Ravi Prakash Srivastava

Designation: Assistant Professor

Department: Materials Engineering

Email: ravip@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