



Indian Institute of Technology Jodhpur

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

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Website: CSE: www.iitj.ac.in/computer-science-engineering | IITJ: www.iitj.ac.in

INDIAN INSTITUTE OF TECHNOLOGY JODHPUR

Request For Technical Information and Pro Forma Quotations For Procurement of FDM 3-D Printers (2 Nos.)

1. Introduction

The Indian Institute of Technology Jodhpur (IIT Jodhpur) intends to procure **FDM 3-D Printers (2 Nos.)** 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: **FDM 3-D Printers (2 Nos.)**
- Quantity: 02
- Broad Functional Requirements:
 - **UNIT 1:** Large-format, five-independent-toolhead, multi-material FDM 3D printer with automatic tool changing and enclosure for multi-



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material and multi-colour research, composite filament printing, flexible-rigid combinations, soluble/breakaway supports, complex assemblies, large prototypes, and research with custom filaments.

- **UNIT 2:** Industrial enclosed FDM 3D printer with thermally controlled build environment, dedicated model/support deposition for reliable and repeatable professional prototyping, functional parts, tooling, educational use, elastomeric parts, engineering thermoplastics, and carbon-fibre-filled thermoplastic parts.

Technical Specifications – FDM 3-D Printers (2 Nos.)

Sl. No.	Parameter	Technical Specification	Nature
1	Printing technology	FDM	Essential
UNIT 1			
2	Build volume	Minimum 350 x 350 x 350 mm	Essential
	Independent toolheads	Minimum five separate, individually temperature-controlled toolheads with automatic tool changing.	Essential
3	Multi-material operation	Print with 1-5 materials/nozzles in the same job, including different model and support materials.	Essential
4	Maximum nozzle temperature	At least 280 °C	Essential
5	Maximum bed temperature	At least 120 °C	Essential
6	Nozzle range	At least 0.25, 0.4, 0.6 and 0.8 mm or equivalent, standard and hardened nozzles included.	Essential
7	Nozzle range	1.0 mm option desirable.	Optional
8	Accuracy	~ +/-0.20 mm	Essential
9	Materials	PLA, PETG, ABS, ASA, HIPS/PVA/BVOH or equivalent support materials, PC, PA/nylon, PP, CPE/PVB, TPU/TPE, Carbon fiber/glass fiber filled thermoplastics	Essential
10	Advanced 3D printed technology features	Purpose-built integrated FDM+FGF module or compatible pellet/granulate extrusion	Optional
UNIT 2			
1	Build volume	Minimum 250 x 250 x 250 mm	Essential
2	Material Delivery Options	2 material spool bays, 1 for model, 1 for support	Essential
3	Minimum layer thickness	Minimum selectable layer thickness of 0.127 mm or finer, with additional layer options around 0.18, 0.25, and 0.33 mm or equivalent.	Essential



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4	Chamber Heating Capability	At least 230 °C	Essential
5	Nozzle range	At least 0.25, 0.4, 0.6 and 0.8 mm or equivalent, standard and hardened nozzles included.	Essential
6	Materials	ABS-type engineering thermoplastic, UV/weather-resistant ASA-type thermoplastic, PLA, flexible TPU approximately Shore A 70-95, and carbon-fibre-filled ABS-type composite. The vendor may offer additional qualified materials	Essential

Note: Above are the desired specifications, vendors are supposed to submit their detailed proposed specifications along with the budget in the separately for UNIT 1 or UNIT 2

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

Installation and training	Complete installation, commissioning, performance verification and on-site operational/application training at IIT Jodhpur.	Essential
Warranty and support	Comprehensive warranty, preventive maintenance and India-based after-sales/application support. Warranty and AMC/CMC options shall be stated.	Essential
Delivery	90 Days from the release of PO	Essential

(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



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- 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).

The envelope/email should be superscribed as:

"Request For Technical Information and Pro forma Quotations for Procurement of FDM 3-D Printers (2 Nos.) UNIT 1/UNIT 2"

8. Important Dates

Activity	Date
Publication	29-07-2026
Last Date for Submission	08-08-2026
Technical Presentation (if required)	To be informed
Clarification Meeting (if required)	To be informed

10. General Terms & Conditions

- This **Request For Technical Information and Pro forma Quotations** is issued only for obtaining technical information and **Pro Forma** estimates.



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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

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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