

# **Global Tender Document**

## **Supply and Installation of Multi-Jet 3D Printer**

**Global Tender No: CPDM/ACB/2023-24/007**

(GTE Request Reference Number: IISc-GTE-2023-289 approved by Ministry vide ref: F.No. 5 I -03/2023-TS.VI, dated 9th October. 2023)



INDIAN INSTITUTE OF  
**SCIENCE**

**Centre for Product Design and Manufacturing  
Indian Institute of Science  
Bangalore – 560012**

**October 2023**

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## Section 1 – BID SCHEDULE

|   |  |   |
|---|--|---|
| 1 | Tender Number                            | <b>CPDM/ACB/2023-24/007</b>   |
| 2 | Tender Date                              | 17 <sup>th</sup> Oct 2023   |
| 3 | Item Description                         | <b>Supply and Installation Multi-Jet 3D Printer</b>   |
| 4 | Tender Type                              | Two bid system:<br>(a) Technical Bid (Part A)<br>(b) Commercial Bid (part B)  |
| 5 | Place of tender submission               | The Chairman<br>Centre for Product Design and<br>Manufacturing<br>Indian Institute of Science,<br>Bangalore – 560012, India   |
| 6 | Last Date and Time for tender submission | 8 <sup>th</sup> Nov 2023, 5:00 PM (Indian Standard Time)  |
| 7 | Primary Point of Contact                 | The Chairman<br>Centre for Product Design and<br>Manufacturing<br>Indian Institute of Science, Bangalore –<br>560012, India<br><b>Email: <a href="mailto:chair.cpdm@iisc.ac.in">chair.cpdm@iisc.ac.in</a> with copy to <a href="mailto:marora@iisc.ac.in">marora@iisc.ac.in</a></b> |

This is a Request for quote (RFQ) from Original Equipment Manufacturer (OEM) or their authorized Indian distributor for the Supply and Installation Multi-Jet 3D Printer in the Indian Institute of Science, Bangalore. All interested vendors shall submit a response demonstrating their capabilities to produce the requested equipment to the primary point of contact.

## SECTION 2 – ELIGIBILITY CRITERIA

### **Prequalification criteria:**

Prequalification criteria:

1. The bidder must have an extensive track record of having previously supplied similar equipment in India.
2. The bidder should sign and submit the declaration for Acceptance of Terms and Conditions as per -[Annexure 4](#).
3. The Bidder's firm should have existed for a minimum of 5 years. (Enclose Company Registration Certificate)
4. The Bidder must not be blacklisted/banned/suspended or have a record of any service-related dispute with any organization in India or elsewhere. A declaration to this effect has to be given as per [Annexure 3](#).
5. Original Invoice, Original Warranty Certificate, Original Test Reports should be produced for all imported items from OEM (Original Equipment Manufacturer) at the time of supply of the equipment.
6. System Catalogue should be produced with the Technical Bid.
7. Manufacturer should have ISO or equivalent international standard certificate. Please attach the required certificate with the bid.
8. Supplier should support the user with all the spares for a minimum period of 10 years.
9. The vendor should have qualified technical service personnel/service engineer for the equipment based in India. Details of the experienced service engineer including contact details should be provided in tender document.

## SECTION 3 – TERMS AND CONDITIONS

### A) Submission of Tender:

1. All documentations in the tender should be in English.
2. Tender should be submitted in two envelopes (two bid system).
  - a. **Technical Bid (Part-A) –**  
Technical bid consisting of all technical details, check list for conformance to specifications, format in which the price bid is quoted without the actual prices (suppliers who include any indication of prices in the technical bid will be automatically disqualified).
  - b. **Commercial Bid (Part-B) –**  
Indicating item wise price for the items mentioned in the technical bid as per the format of quotation provided in tender, and other commercial terms and conditions.
3. The technical (Part A) bid and Commercial bid (Part B) should each be placed in a separate sealed envelope, superscripting on both the envelopes the tender no. and the due date and both sealed covers are to be placed in a bigger envelope which should also be sealed and duly superscripted with the Tender No & Due Date. **If the quotation cover is not sealed, it will be rejected.**
4. The SEALED COVER superscripting tender number / due date & should reach The Chairman, Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore – 560012, India on or before due date mentioned in the tender notice. In case due date happens to be holiday the tender will be accepted and opened on the next working day.
5. The technical bid (Part A) must contain a point-by-point technical compliance document. The technical proposal should contain a compliance table with 5 columns.
  - a. The first column must list the technical requirements, in the order that they are given in the technical requirements below.
  - b. The second column must provide the specification of the instrument against the requirement (please provide quantitative responses wherever possible)
  - c. The third column should describe the compliance with a “YES” or “NO” only. Ensure that the entries in column 2 and column 3 are consistent.
  - d. The fourth column should clearly state the reasons/explanations/context for deviations if any.
  - e. The fifth column may contain additional remarks. It can be used to highlight the technical features, qualify the response of previous columns, or provide additional details.
6. All communications are to be addressed to- The Chairman, Centre for Product Design and Manufacturing, Indian Institute of Science, Bangalore – 560012, India.
6. GST/other taxes, levies etc., are to be indicated separately. The BIDDER should mention GST Registration and PAN in the tender document (Indian Bidders only).
8. If price is not quoted in Commercial Bid as provided in tender document the bid is liable to be rejected.
9. The Institute reserves the right to accept or reject any bid and to annul the bidding

process and reject all bids at any time prior to the award of contract, without there by incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders.

10. Incomplete bids will be summarily rejected.
11. The vendor shall include up to five testimonials from existing users of a similar system indicating performance and maintenance satisfaction.
12. The vendor must submit a list of all Indian customers (only Government of India organizations) where similar systems have been installed. References from this list can be used to disqualify vendors with a poor track record of service, build quality, system performance, or poor availability of spares. Additionally, IISc shall have the absolute right to take the opinion of other departments/institutes for their opinion/experience about the bidder's services/sales. Based on such input, IISc may decide about the rejection of a bid of such bidder(s).
12. The vendor shall include up to five testimonials from existing users of a similar system indicating performance and maintenance satisfaction.
13. IISc reserves the right to relax any or all the above conditions without assigning any reason.
14. IISc reserves the right to verify the accuracy and seek clarification of submitted specifications after opening the technical bids. Based on such clarification, if specifications are found to be unsuitable, the technical committee reserves the right to disqualify vendors. Any discrepancy between the promised and verified specifications will be deemed as technical non-compliance.
15. The decision of the purchase committee of IISc will be final. The Institute reserves the right to accept or reject any bid or to annul the bidding process and reject all bids, at any time before the award of the contract without thereby incurring any liability of the affected bidder or bidders.

**B) Cancellation of Tender:**

Notwithstanding anything specified in this tender document, IISc Bangalore, in its sole discretion, unconditionally and without having to assign any reason, reserves the rights:

- a. To accept OR reject lowest tender or any other tender or all the tenders.
- b. To accept any tender in full or in part.
- c. To reject the tender, offer not confirming to the tender terms.

**C) Validity of the Offer:**

The offer shall be valid 90 Days from the date of opening of the commercial bid.

**D) Evaluation of Offer:**

1. The technical bid (Part A) will be opened first and evaluated.
2. Bidders meeting the required criteria as stated in Section 2 of this document shall only be considered for Commercial Bid (Part B) opening. Further, agencies not furnishing the documentary evidence as required will not be considered.
3. Pre- qualification of the bidders shall not imply final acceptance of the Commercial Bid. The agency may be rejected at any point during technical evaluation or during commercial evaluation. The decision in regard to

acceptance and / or rejection of any offer in part or full shall be the sole discretion of IISc Bangalore, and decision in this regard shall be binding on the bidders.

4. The award of contract will be subject to acceptance of the terms and conditions stated in this tender.
5. Any offer which deviates from the vital conditions (as illustrated below) of the tender is liable to be rejected:
  - a. Non-submission of complete offers.
  - b. Receipt of bids after due date and time and or by email / fax (unless specified otherwise).
  - c. Receipt of bids in open conditions.
6. In case any BIDDER is silent on any clauses mentioned in these tender documents, IISc Bangalore shall construe that the BIDDER had accepted the clauses as of the tender and no further claim will be entertained.
7. No revision in the terms and conditions quoted in the offer will be entertained after the last date and time fixed for receipt of tenders.
8. Lowest bid will be calculated based on the total price of all items tendered for Basic equipment along with accessories for installation, operation, pre-processing and post processing, optional items, recommended spares, warranty.

**E) Pre-requisites:**

The bidder will provide the prerequisite installation requirement of the equipment along with the technical bid.

**F) Warranty:**

The complete system is to be under warranty period of **minimum of 3 years** (year-wise breakup value should be shown in the commercial bid) including free supply of consumables, spare parts, and data analysis software from the date of functional installation. If the instrument is found to be defective, it must be replaced or rectified at the cost of the bidder within 30 days from the date of receipt of written communications from IISc Bangalore. If there is any delay in replacement or rectification, the warranty period should be correspondingly extended.

**G) Annual Maintenance Contract (AMC):**

An annual maintenance contract for a period of at least one years post warranty should be provided on completion of warranty period. In the bid AMC charge with all relevant terms and conditions should also be provided. The AMC will not be the part of the current order but its value as quoted is non-negotiable after three years for a period of one year. The vendor shall hold the quoted price towards AMC for one year after the warranty period.

**H) Purchase Order:**

1. The order will be placed on the bidder whose bid is accepted by IISc based on the terms & conditions mentioned in the tender document.
2. The quantity of the items in tender is only indicative. IISc, Bangalore reserves the right to increase /decrease the quantity of the items depending on the requirement.
3. If the quality of the product and service provided is not found satisfactory, IISc, Bangalore reserves the right to cancel or amend the contract.

**I) Delivery and Installation:**

The bidder shall provide the lead time to delivery, installation and made functional at IISc, Bangalore from the date of receipt of purchase order. The system should be delivered, installed, and made functional **within 30 days** from the date of receipt of purchase order. The supply of the items will be considered as effected only on satisfactory installation and inspection of the system and inspection of all the items and features/capabilities tested by the IISc, Bangalore. After successful installation and inspection, the date of taking over of entire system by the IISc, Bangalore shall be taken as the start of the warranty period. No partial shipment is allowed.

**J) Payment Terms:**

The payment will be through a Letter of Credit and the terms of payment are negotiable. As per GFR no advance payment can be made to the authorized Indian distributors unless an equal amount of bank guarantee is provided.

**K) Statutory Variation:**

Any statutory increase in the taxes and duties subsequent to bidder's offer, if it takes place within the original contractual delivery date, will be borne by IISc, Bangalore subject to the claim being supported by documentary evidence. However, if any decrease takes place the advantage will have to be passed on to IISc, Bangalore.

**L) Disputes and Jurisdiction:**

Any legal disputes arising out of any breach of contract pertaining to this tender shall be settled in the court of competent jurisdiction located within the city of Bangalore, India.

**M) General:**

1. All amendments, time extension, clarifications etc., within the period of submission of the tender will be communicated electronically. No extension in the bid due date/time shall be considered on account of delay in receipt of any document(s) by mail.
2. The bidder may furnish any additional information, which is necessary to establish capabilities to successfully complete the envisaged work. It is however, advised not to furnish superfluous information.
3. The bidder may visit the installation site before submission of tender, with prior intimation.
4. All imported equipment should be quoted in the currency of the country of origin, and all locally sourced items should be quoted in Indian Rupees.
5. Any information furnished by the bidder found to be incorrect, either immediately or later, would render the bidder liable to be debarred from tendering/taking up of work in IISc, Bangalore.



## Section – 4 – Technical Specifications

### A) Technical Specifications of Multi-Jet 3D Printer

| TECHNICAL PROPERTIES  | Requirements   | Essential/Desirable |
|---|--|---------------------|
| Printing technology   | Multi/Poly jet for Polymer printing  | Essential           |
| Operating temperature range   | 18-24 degree Celsius   | Essential           |
|   | 15-30 degree Celsius   | Desirable           |
| Operating humidity  | 30-70% relative humidity   | Essential           |
|   | 20-80% relative humidity   | Desirable           |
| Supports  | No support needed or dissolvable support   | Essential           |
| Post processing   | Post processing machine (if required) must be included   | Essential           |
| <b>PRINTING SPECIFICATIONS</b>  |  |                     |
| Max Build volume (XxYxZ)  | >200x200x125mm   | Essential           |
| Accuracy  | ± (0.025mm per 25.4 mm) of part dimension in X,Y and Z direction (even on support side)  | Essential           |
| <b>MATERIALS</b>  |  |                     |
| Build materials   | Engineering plastics<br>Bio-compatible plastics (with ISO 10993/USP Class VI or equivalent certifications)<br>Elastomeric<br>Rigid plastics  | Essential           |
| <b>SOFTWARE AND NETWORK</b>   |  |                     |
| Cloud monitoring and print capability   | Yes  | Essential           |
| OS support  | Windows® 7, Windows 8 or Windows 8.1 (Service Pack), Windows 10, Windows 11  | Essential           |
| Input data files supported  | STL, CTL, OBJ, PLY, ZPR, ZBD, AMF, WRL, 3DS, FBX, IGES, IGS, STEP, STP, MJPDDD   | Essential           |
| <b>OTHER REQUIREMENTS</b><br>(Applicable to 3D printer and post-processing equipment) |  |                     |
|   | <ol style="list-style-type: none"> <li>1. Setup and installation included.</li> <li>2. Warranty: At least 3 years.</li> <li>3. Warranty and Annual maintenance terms as per section 3.H &amp; 3.I</li> <li>4. Spare part availability for at least 10 years. No obsolescence.</li> </ol> | Essential           |

### B) Accessories:

The bidder shall supply the below items along with the machine:

1. Recommended spare parts with specifications.
2. Integrated computer with the software's pre-installed to run the **Multi Jet 3D printer** Operational manuals and maintenance manuals.
3. Two copies of the operational software (in hard disks) should be made available.
4. Special and essential Infrastructure requirements.

5. Provisions required for exhaust arising from the operation of the machine to be cleaned and removed from the premises.

**C) Training and demonstration:**

Training on usage of the machine (hardware and software) must be demonstrated by the successful bidder at bidder's cost of at least two individuals at IISc, Bangalore.

## Section 5: Technical Bid

The technical bid should furnish all requirements of the tender along with all annexures (1 to 5) given below and to be submitted to the following address in a sealed cover.

**The Chairman  
Centre for Product Design and Manufacturing  
Indian Institute of Science  
Bangalore – 560012, India**

## Annexure-1:

### Details of the Bidder

The bidder must provide the following mandatory information & attach supporting documents wherever mentioned:

| Sl No | Name of the Bidder   |  |
|-------|--|--|
| 1     | Nature of Bidder<br>(Attach attested copy of Certificate of Incorporation/ Partnership Deed) |  |
| 2     | Registration No/ Trade License, (if any attach copy)   |  |
| 3     | Registered Office Address  |  |
| 4     | Address for Communication  |  |
| 5     | Contact person- Name and Designation   |  |
| 6     | Telephone No   |  |
| 7     | Email ID & Website   |  |
| 8     | PAN No.(attach copy)   |  |
| 9     | GST No.(attach copy)   |  |

Signature of the Bidder

Name

Designation, Seal

Date:

## Annexure-2:

### **Declaration regarding experience**

To,

The Chairman  
Centre for Product Design and Manufacturing  
Indian Institute of Science,  
Bangalore – 560012, India

**Ref: Tender No: XXXXXXXXXX**

**Dated: XXXXX**

### **Supply and Installation of Multi Jet 3D Printer**

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company / firm has ---- years of experience in supplying and installation of Multi Jet 3D printer.

(Signature of the Bidder)

Printed Name

Designation, Seal

Date:

## Annexure-3:

### Declaration regarding track record

To,

The Chairman  
Centre for Product Design and Manufacturing  
Indian Institute of Science,  
Bangalore – 560012, India

**Ref: Tender No:** XXXXXXXX

**Dated:** XXXXX

### Supply and Installation of Multi Jet 3D Printer

Sir,

I've carefully gone through the Terms & Conditions contained in the above referred tender. I hereby declare that my company/ firm is not currently debarred / blacklisted by any Government / Semi Government organizations / institutions in India or abroad. I further certify that I'm competent officer in my company / firm to make this declaration.

Or

I declare the following.

| Sl No | Country in which the company is debarred/blacklisted/case is pending | Black listed/Debarred by Government/Semi Government/organisations/Institutions | Reason | Since When and How long |
|-------|--|--|--------|-------------------------|
|       |  |  |        |                         |
|       |  |  |        |                         |
|       |  |  |        |                         |
|       |  |  |        |                         |

## Annexure – 4:

### **Declaration for acceptance of terms and conditions**

To,

The Chairman  
Centre for Product Design and Manufacturing  
Indian Institute of Science,  
Bangalore – 560012, India

**Ref: Tender No:** XXXXXX

**Dated:** XXXX

### **Supply and Installation of Multi Jet 3D Printer**

Sir,

I've carefully gone through the Terms & Conditions as mentioned in the above-referred tender document. I declare that all the provisions of this tender document are acceptable to my company. I further certify that I'm an authorized signatory of my company and am, therefore, competent to make this declaration.

Yours faithfully,

(Signature of the Bidder)

Name

Designation, Seal

Date:

## Annexure – 5:

### **Details of items quoted:**

- a. Company Name
- b. Product Name
- c. Part / Catalogue number
- d. Product description / main features
- e. Detailed technical specifications
- f. Remarks

### **Instructions to bidders:**

1. Bidder should provide technical specifications of the quoted product/s in detail.
2. Bidder should attach product brochures along with technical bid.
3. Bidders should clearly indicate compliance or non-compliance of the technical specifications provided in the tender document.



## Section 6: COMMERCIAL BID

The commercial bid should be furnished with all requirements of the tender with supporting documents as mentioned under:

| S.No | Description   | Cat. Number | Quantity | Unit Price | Sub total |
|------|---|-------------|----------|------------|-----------|
| 1.   | Essential items noted in the technical specification        |             |          |            |           |
| 1.a  | ... (details of essential items)                            |             |          |            |           |
| 1.b  | ...   |             |          |            |           |
|      |   |             |          |            |           |
| 2.   | Optional items noted in the technical specification         |             |          |            |           |
| 2.a  | ... (details of essential items)                            |             |          |            |           |
| 2.b  | ...   |             |          |            |           |
|      |   |             |          |            |           |
| 3.   | Accessories for operation and installation                  |             |          |            |           |
| 4.   | All Consumables, spares and software to be supplied locally |             |          |            |           |
| 5.   | Warranty (3 year)   |             |          |            |           |
| 6.   | AMC one year  |             |          |            |           |
| 7.   | Cost of Insurance and Airfreight                            |             |          |            |           |
| 8.   | CIP/CIF IISc, Bengaluru                                     |             |          |            |           |

Any additional items

| S.No | Description | Cat. Number | Quantity | Unit Price | Sub total |
|------|-------------|-------------|----------|------------|-----------|
|      |             |             |          |            |           |

Addressed to:

**The Chairman  
Centre for Product Design and Manufacturing Indian  
Institute of Science,  
Bangalore – 560012, India**

## SECTION 7 – CHECK LIST

(This should be enclosed with technical bid- Part A)

The following items must be checked before the Bid is submitted:

### 1. Envelope “A”: Technical Bid

- a) Section 5- Technical Bid (each page signed by the authorized signatory and sealed) with the below annexures:

Annexure 1: Bidders details

Annexure 2: Declaration regarding experience

Annexure 3: Declaration regarding clean track record

Annexure 4: Declaration for acceptance of terms and conditions

Annexure 5: Details of items quoted.

- b) Copy of this tender document duly signed by the authorized signatory on every page and sealed.

### 2. Envelop “B”: Commercial Bid

Section 6: Commercial Bid

Your quotation must be submitted in two envelopes: Technical Bid (Envelope A) and Commercial Bid (Envelope B) super scribing on both the envelopes with Tender No. and due date and both of these in sealed covers and put in a bigger cover which should also be sealed and duly super scribed with Tender No. & Due Date.

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Reviewed and approved by purchase committee: