



INDRAPRASTHA INSTITUTE of  
INFORMATION TECHNOLOGY  
DELHI

**TENDER FOR SUPPLY & INSTALLATION OF 3D PRINTER's**  
**FOR**  
**INDRAPRSTHA INSTITUTE OF INFORMATION TECHNOLOGY DELHI**  
**PHASE-III, NEW DELHI-110020**

(Tender no. IIITD/MM/3D Printers /005/2021-22)

## **INVITATION FOR BIDS**

Indraprastha Institute of Information Technology -Delhi (IIITD), a State University created by an Act of Govt. of NCT of Delhi, invites sealed bids for **Supply and installation of 3D Printers** (as per specifications mentioned under Scope of Work below) for its campus at Okhla Phase-III New Delhi-110020.

1. Earnest Money Deposit: Exempted. Bid Security Declaration to be submitted as per Annexure-X
  
2. The tender document can be downloaded from the Institute's web-site. Those wishing to get the copy of the document from the Institute may please deposit non-refundable Tender Document Fee of Rs.1,180/- (Rupees One Thousand One Hundred Eighty only) in the form of Demand draft drawn in favour of IIIT-Delhi Collections", payable at New Delhi or may deposit Rs.1,180/-with the F&A division of the Institute and enclose the receipt with the filled up tender document. Tender fees is exempted for MSMEs/NSIC registered suppliers.
  
3. The last date for submission of bid is 29<sup>th</sup> June 2021 up to 3:00 PM. The Technical bids shall be opened on the same day i.e. 29<sup>th</sup> June, 2021 at 3.30 P.M. The Tender Document should be addressed to:

**Registrar,**

**Indraprastha Institute of Information Technology-Delhi  
Okhla Phase-III, (Behind Govind Puri Metro Station)  
New Delhi-110020.**

The document may be deposited in the Tender Box kept in the Store & Purchase department at the Room no. A 107, First Floor, Old Academic Block of the Institute. Bids received after 3:00 PM will not be accepted or considered under any circumstances.

## **Bidding Procedure:**

1. Bids are invited in Two Bids System i.e. (1) Technical and (2) Financial.

Technical and Financial bids should be sealed separately and enclosed in a sealed envelope clearly indicating separately Technical Bid for **“Supply and installation of “3D Printers /Fused Filament Fabrication”** and Financial Bid for **"Supply and installation of “3D Printers /Fused Filament Fabrication "** addressed to Registrar IIIT-Delhi, Okhla Industrial Area Phase-III, New Delhi-110020.

2. Sealed quotations shall be received not later than 3.00 P.M. on 29<sup>th</sup> June, 2021. No bids will be accepted after this date & time under any circumstances. The Institute will not be responsible for any postal/courier delay and also for reasons beyond control of the Institute.
3. Technical bids must contain the EMD declaration, along with complete technical details as desired by this tender. Technical bids of all the tenderers will be opened on pre scheduled date, time & venue. The financial bid will be opened after evaluation of the technical bid. Financial bid of only those meeting the requirement of the Institute will be opened and no representation in this regard will be entertained. The date, time of opening of financial bid will be communicated later.

## Scope of Work

### Technical Specifications of the 3D Printer /Fused Filament Fabrication (Quantity - 3)

#### TECHNICAL SPECIFICATION

##### 3D Printer Specification:

| S.No | Requirements                         | Details   |
|------|--------------------------------------|---|
| 1    | Printing Technology and Print head:  | Fusion Deposition Modelling with dual extrusion, and auto-nozzle lifting system with swappable print cores. The product should belong to the best brand.  |
| 2    | Material Recognition                 | Material should be recognised by the printer automatically (NFC capability of scanning the material)  |
| 3    | Build Tray Dimension:                | Would prefer 250mm x200mm x 250mm volume or more.   |
| 4    | Accuracy ( Layer Thickness ):        | Layer accuracy should be equal or better than 20 micron. Reliability certificate would be required. Upto how many hours continuously the machine can work.  |
| 5    | Noise Specification:                 | Noise should be less than 55 dB   |
| 6    | Nozzle Heat up time                  | Not at all more than 2 min.   |
| 7    | Network Connectivity                 | Wireless connectivity, along with wired (LAN) and USB.  |
| 8    | System Requirements                  | Should be compatible with Windows 10, and latest version of windows or MAC-OS with a minimum of 4GB RAM   |
| 9    | Air manager required with 3D printer | <p>Air manager should be of the same brand to which the 3D printer belongs. It should have the capability to run for long hours, and its performance certificate will be required. Suppliers need to provide each and every detail about upto what ppm level it can absorb the gaseous components, and particulate matter of 2.5 of less than it.</p> <p>Air manager should have installed a high quality (branded) filter such as HEPA or better one with an efficiency of 95% or better. It should have controlled fume extraction and been smart. And working should be noiseless.</p> <p>Only the closed chamber of the machine will be required.</p> |
| 10   | Storage                              | Should be compatible to work in an indoor environment as well as in an open area.   |
| 11   | Material Handling and Storage        | The machine should have the capability to stack more than 1 number of materials on it in a closed chamber only. All stacked material should be easily recognised by the machine   |

|    |                          |   |
|----|--------------------------|---|
|    |                          | <p>automatically once placed inside the storage chamber. This storage chamber should be connected with a 3D printer for easy flow of material while printing. High number of material storage capacity in the chamber will be preferred.</p> <p>Additionally, the material storage chamber should have Easy Loading, Uninterrupted Printing, Humidity Control, Easy Setup and Composite Material Compatible. Handling system should be of the same brand to which 3D printers belong.</p>   |
| 12 | Power Requirements       | 200 – 240V/7A. 50/60 Hz ,<br>16 A (If any specific power requirements than company need to provide a voltage converter with their product)  |
| 13 | Regulatory Compliance    | Should follow the standard policies like RoHS etc.  |
| 14 | Display                  | Touch Screen (resistive or capacitive)  |
| 15 | Material removal process | Require capability with the machine or liquid/ solution based to remove the support material from PLA (similarly for other types of 3D printer materials, as much as possible) easily without manual involvement. A complete demonstration vendor has to be provided by the supplier. If any chemicals are there, it needs to be provided by the vendor itself during the time of printer supply. The chemical material should be safe to use by humans, and should be environmentally friendly. The certificate will be required for the same.   |
| 16 | Warranty                 | (1 yr warranty). Warranty should include maintenance of hardware of the machine with replacement if damaged without any additional cost). Suppliers will be required to give the training and demo of their all product and its parts before and after the installation and also during the warranty or (AMC period whenever taken). We specifically do not want online support. Onsite support will be required, whenever problems arise in any of the printer parts or in accessories like air chamber, etc. Vendors should share only a quote of AMC with a validity of 2 years.   |
| 17 | Software                 | Company (to which the 3D printer belongs) made software that should be included with a 3D printer for all time. Software should support slicing and controlling of the model. It should have the flexibility to separately place each 3D print file. Should provide flexibility to change design all parameters related to printing. Should provide the details of material required to make it before printing. Should be able to give the command directly to the software wirelessly to the machine. Should have the compatibility to monitor the 3D print using software only. Any other advanced additional features which will help to reduce the manual work and automatically can update the user for the requirements or any change if required in the design. Should provide the possibility to export and import a variety of files in different formats (like pdf and others) so that the design can be easily stored and saved in the system for other uses. |

|    |  |  |
|----|--|--|
| 18 | Material Compatibility                 | PLA, ABS, TPU, CARBON FIBER, PVA, NYLON, Break-away, Supports third-party materials and others like conductive material. The material should support at least 4+ distinct materials as mentioned here.<br>The machine should also have an upgrade facility for other types of new material.                              |
| 19 | Supportive accessories with 3D printer | All accessories as required with 3D printers, material storage system, and air chamber or for any parts should be included. Camera to see the building of the 3D printing process.   |
| 20 | Other accessories                      | Head unit (print cores) should be present with a 3D printer. One should be other than those which are already installed in the printer. Handling tools for removing the build part from the plate will be required as well as for self-maintenance of the machine. For human safety proper guidelines should be present. |
| 21 | Calibration Process                    | X,Y, Z axis Calibration process should be performed automatically by 3D Printer without any manual interference. The all three accuracy should be 7.2, 7.2, 2.7 micron or better accuracy  |
| 22 | Installation sites are                 | Delhi, Sonipat, and Ludhiana   |

## **Minimum Eligibility Requirement:**

- 1 Bidder should be OEM/Authorized Partner/service provider of the OEM. In case the tenderer is an Authorized Partner or Service Provider a valid Agency-ship/Dealership Certificate (MAF specific to this tender) to quote on behalf of OEM should also be enclosed along with the technical bid. **A document in support of this must be enclosed.**
- 2 OEM & bidders should have Sales office in Country. **A self-certified document in support of this must be enclosed.**
- 3 The warranty provided by the bidder should have a back to back arrangement with the OEM. **The declaration should be the part of a Letter of Authorization and signed by competent authority at the OEM.**
- 4 The bidder should be ISO 9001 certified. **A copy of ISO Certificate should be enclosed.**
- 5 The vendor/OEM should be able to provide 24 x 7 NOC & Tele support of their own if required by IIITD at agreed terms. **A self-certified document in support of this must be enclosed.**
- 6 The bidder shall provide the Registration number of the firm along with the valid GST number with PAN Number allotted by the competent authorities. **A self-certified document in support of this must be enclosed.**
- 7 The bidder must not be blacklisted by Central Government, State Government or Government of Corporations in India. **A certificate or undertaking to this effect must be submitted.**
- 8 If the bidder is an authorized partner or service provider of an OEM, **an undertaking from the OEM is required** (please enclose) stating that they would facilitate the bidder on a regular basis with technology/product updates and extends support for the warranty as well.
- 9 The bidder must be responsible for supply, deploy and support the infrastructure.
- 10 If vendor /OEM do not meet its SLA, IIITD put the fine of 2000/- Rs. per day for first seven days and @ Rs.5, 000/- per day from 8<sup>th</sup> day onwards will be levied.
- 11 Bidders can seek clarifications, raise technical/ financial queries etc. related to tender by 24-06-2021 via email to e-mail **ajay@iiitd.ac.in**. The replay to clarifications sought or queries raised will be replied within 02 days by 25-06-2021 and uploaded on the website of the institute under www.iiitd.ac.in Based on this the bidders may submit bids as prescribed by the due date the time. No clarifications in any other form will be provide

**Following information must accompany the financial bid:**

|    |   |  |
|----|---|--|
| 1  | Name, address and telephone number of the firm/company  |  |
| 2  | Name of the contact person and contact details (mobile/telephone number etc.)   |  |
| 3  | Name of the Bank and full address   |  |
| 4  | Bank Account Number   |  |
| 5  | PAN & GSTIN (Attach self-certified copy)  |  |
| 6  | Valid self-certified copy of authorization from Bidder  |  |
| 7  | Copy of Partnership Deed/ Certificate of registration of company or any other document evidencing registration of the bidder        |  |
| 8  | Number of Years of Experience   |  |
| 9  | Details of DD towards:<br>Tender Fee:<br>EMD:   |  |
| 10 | Provide the previous PO's of the same items work executed during last three years (attested copies of the Orders to be enclosed)    |  |
| 11 | List of service centers, nearest location of support centre.  |  |
| 12 | Turnover of the bidder in the financial years:<br>2017-18<br>2018-19<br>2019-20<br>Please attach CA certified copy of the turnover. |  |
| 13 | ISO 9000 Certification (please attach certified copy)   |  |

I /We hereby certify that the information furnished above is full and correct to the best of my/our knowledge.

(Signature of the authorized Signatory)  
Name:  
Office Seal.

Date:  
Place:

## **TERMS AND CONDITIONS**

1. The financial bid should be valid for a period of not less than 60 days from the date of opening of bid.
2. Upon placing of the Purchase Order (PO), the successful bidder is required to submit performance Bank guarantee (PBG) equivalent to 3% of the PO value within 15 days of the date of PO, failing which the EMD amount will be forfeited and the bidder shall be notified as blacklisted. The PBG will be valid for a period of 60 days beyond the stipulated date for cessation of the contract which is co-terminus with the warranty period. No interest is payable on the PBG.
3. PBG will be realized by IIIT-D in case of termination of the contract for unsatisfactory performance and/or non-performance of the contract.
4. The Product to be supplied within a period of 6-7 weeks from the date of the Purchase Order by the Institute. If vendor fails to supply the item as quoted in the Technical & Financial bid, the PBG amount will be forfeited and the bidder shall be notified as blacklisted, or as deem appropriate by the institute.
5. Minimum one year service & replacement warranty from the date of delivery/installation.
6. Bids will be opened in the presence of bidder's representatives, who choose to attend on the specified date and time. Only one representative shall be allowed to attend.
7. Sealed bid can be sent either by post or by messenger. The responsibility of delivery of bid lies entirely with the bidder.
8. 100% payment will be released only on satisfactory installation / services as per scope of work as certified by officer in charge of the Institute and after producing the GST invoice. Bidder does not agree to above payment terms are requested not to submit their bid.
9. Payment will be paid only if required SLA as mentioned in scope of work is met.
11. In the event of dispute, Director, IIIT-Delhi shall be the sole arbitrator and his decision shall be final and binding on both the parties.
12. IIIT-Delhi does not bind itself to accept the lowest or any other offer and reserves the right to accept or reject any or all the offers either in full or in part without assigning any reason.
13. In case the bidder is not able to execute the Work as per terms, PBG shall be forfeited.
14. Tender fee is exempted for MSME's/NSIC registered vendor /suppliers.
15. The selected bidder has to sign an agreement with IIITD on a stamp paper after issue of Purchase/Work order. The agreement is attached Annexure 'Y.'

**PROFORMA FOR FINANCIAL BID**

| S. No. | Details   | Qty. | *All Inclusive Cost<br>(Please quote in<br>INR only)* |
|--------|---|------|---|
| 1      | Supply and installation of 3D Printers /Fused Filament Fabrication (As per tender scope of Work)  | 3    |   |
| 2      | Discount, if any  |      |   |
|        | Total Amount Rs.  |      |   |
|        | Total Final Cost (in figures) with Installation at IIIT Delhi campus Okhla Phase III, New Delhi.<br><b>The Bidder may obtain price in Forex (USD) however the quote in financial Bid should be INR only.</b><br><b><i>*If any documents are required for availing custom duty exemption, the IIITD will provide the same. Please quote price accordingly.</i></b> |      |   |

Please note the price should be quoted for each of the item and should be inclusive of all taxes/charges and installation at IIIT-Delhi.

***\*In terms of Notification No. 45/2017-Central Tax (Rate), dated 14/11/2017 of the Government of India, Ministry Of Finance (Department Of Revenue), vide Sr. No.2, the Indraprastha Institute of Information Technology-Delhi being a University established by an Act of the Govt. of NCT of Delhi (Delhi Act 5 of 2008) and registered with the Government of India in the Department of Scientific and Research (Regn. No. TU/V/RG-CDE (1157) 2018, dated 14.09.2018) is eligible for concessional rate of 5% GST on items as specified in the Notification.***

The discount, if any should be mentioned herein and nowhere else.

Total Cost (all inclusive) of quantity mentioned above (in words) at IIIT-Delhi campus:

We accept that the rate quoted above shall remain valid for a period of 60 days from the last date of the tender document i.e. 60 days from 29<sup>th</sup> June, 2021. It is certified that the rates quoted above are not more than the rates charged from any Central / State Govt. Deptt. / Institution / GeM.

(Signature and seal of the Bidder)

**Exempted Bid Security Declaration Form”**

Date: \_\_\_\_\_ Tender No. \_\_\_\_\_  
To (insert complete name and address of the purchaser)

I/We. The undersigned, declare that: I/We understand that, according to your conditions, bids must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract with you for a period of one year from the date of notification if I am /We are in a breach of any obligation under the bid conditions, because I/We

a) have withdrawn/modified/amended, impairs or derogates from the tender, my/our Bid during the period of bid validity specified in the form of Bid;

Or

b) having been notified of the acceptance of our Bid by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Performance Security, in accordance with the Instructions to Bidders.

I/We understand this Bid Security Declaration shall cease to be valid if I am/we are not the successful Bidder, upon the earlier of (i) the receipt of your notification of the name of the successful Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: .....  
(Signature of person whose name and capacity are shown) In the capacity of (legal capacity of person signing the Bid Securing Declaration)

Name: .....  
(Complete name of person signing he Bid Security Declaration)

Duly authorized to sign the bid for an on behalf of (insert complete name of Bidder)

Dated on \_\_\_\_\_ day of \_\_\_\_\_ (insert date of signing)

Corporate Seal (where appropriate)



Whereas the contractor undertakes to comply with all relevant laws like Contract Labour (Regulation and Abolition) Act, 1970; Employees' State Insurance and Miscellaneous Provisions Act, 1952; Employees' State Insurance Act, 1948; Minimum Wages Act, 1948; Payment of Bonus Act, 1972; Payment of Wages Act, 1936; Income Tax Act; GST Act etc. and to indemnify the IIITD from the contractor's acts of omission or commission, as regards the compliance with the relevant laws;

Whereas the contractor declares that he/she/it shall own all responsibility for any act of omission or commission, as regards the compliance with the relevant laws;

AND WHEREAS the IIITD is agreeable to make necessary payment to the Contractor, at the rates mentioned in the Annexure annexed hereto and as per the terms and conditions mentioned in the IIITD's said Bid Document;

In WITNESS whereof Shri (name), (designation), the authorized representative of the contractor, for and on behalf of the contractor, has hereunto set his hand and ..... for and on behalf of the IIITD has hereunto set his hand.

(Signature of the authorized representative of the Contractor)

Name and designation of the contractor's representative

In the presence of

1

2

(Signature of witnesses with full name and full address)

Registrar  
for and on behalf of the IIITD

In the presence of

1

2

(Signature of witnesses with full name and full address)