

Proc/AIC-EMPI/2024/03

Dated: 28-10-2024

Call for Limited Tender

Call for Quotation for the supply of FDM Printer for Advanced Fab Lab at AIC-EMPI Incubation Foundation.

- i. Quotation is invited by Atal Incubation Centre-EMPI Incubation Foundation (AIC-EMPI) from all intending suppliers(s) for the supply of FDM Printer at AIC-EMPI Incubation Foundation.
- ii. The Technical specifications of the items are furnished in Annexure – 3
- iii. Bidders should submit the Proforma as given in Annexure-1 and the Quotation as per the format given in Annexure-2.
- iv. All the Quotations should be addressed to

AIC-EMPI Incubation Foundation
EMPI Business School
CSKM Educational Complex, Satbari
Chhatarpur, New Delhi-110074
- v. All the quotations shall be signed and sealed by the competent authority of the supplier in the official letter head.
- vi. All the quotations shall be Emailed to aic-empi@empi.ac.in
- vii. All the quotations shall be sent along with the data sheets of the equipment with make and specifications.
- viii. The Bid Documents should be reached on or before **01-11-2024** by **05.00 P.M.**

Important Dates

S. No.	Particulars	Date	Time
1	Publishing Date	28-10-2024	11.00 AM
2	Tender Closing Date	01-11-2024	05.00 PM
3	Opening of Financial Bids	02-11-2024	11.00 AM



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**Chief Executive Officer
AIC-EMPI**

Innovating Intelligent Eco-Systems

AIC-EMPI INCUBATION FOUNDATION

EMPI Institutions, Satbari, Chattarpur, New Delhi - 110074

★ E-mail:aic-empi@empi.ac.in ★ Website: www.aic-empi.org

Terms and Conditions

1. Minimum 1 year of warranty cover for all the items.
2. The rate quoted should be preferably inclusive all taxes / duties. Otherwise the amount of taxes / duties should be mentioned separately, duly specifying the nature of tax / duty with the rate there of.
3. The supply should be FOR AIC-EMPI Incubation Foundation, Chhatarpur, New Delhi-110074
4. You are responsible for the safe delivered of the stores at our organization.
5. No Insurance Charges will be payable by this organization.
6. All communication should be addressed to the Chief Executive Officer by designation and not by name.
7. Payment will be made by PFMS after the receipt of good in good condition and the bills with pre-receipted and stamped receipts.
8. Under no circumstances should the items be sent under freight to pay.
9. Goods not received in good condition and not according to specifications will be rejected outright.
10. Manufacturers/Suppliers name their trade mark and brand etc., should be mentioned in the bill.
11. Delivery period should be mentioned.
12. Quotation received after the due date shall be rejected and will not be considered.



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Annexure – 1

(To be Printed in Supplier Letter Head)

Proforma of Bidder

1	Company Name	
2	Date of Incorporation	
3	Full Address with Pin Code	
4	GST	
5	PAN	
6	Email Address	
7	Mobile Number	
8	Website Address	
9	Name of the Authorized Signatory	
10	Experience in Years Supplying similar Items mentioned in Annexure-2	



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Annexure – 2

(The bidders are requested to quote the price in the format given below in Supplier Letter Head)

S. No.	Description of Items	Unit Price in INR (A)	Number of Units (B)	Total Price C=AxB	GST INR (D)	Total Price Including Tax (C+D)

Delivery Period: _____

Declaration:

We accept all the terms and conditions as mentioned in tender notice. The above rates should be inclusive of all i.e. taxes, packing, delivery transportation, installation etc.

Place: _____ Name: _____

Date: _____ Designation: _____

(_____)
Authorized Signature
With Seal



[Handwritten Signature]

[Handwritten Signature]

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Annexure – 3

S. No.	Product	Quantity
1	FDM Printer	1

Technical Specifications of FDM Printer

DESCRIPTION	SPECIFICATION
Fabrication Technology	Fused Filament Fabrication (FFF)
Fabrication head	Dual extrusion head with auto nozzle lifting system and swappable feeder nozzle of different sizes. (Ref. serial number 23 for details)
Build Volume	XYZ: 230 X 190 X 200 mm or bigger
Filament diameter	2.85 mm
Layer resolution	20 microns to 600 microns
XYZ resolution	7, 7, 3 micron or better
Min. layer thickness	0.06mm
Print speed	Upto 23mm ³ /s
Print acceleration	Upto 3500 mm/s ²
Build Platform	Reusable Heated Glass Build Plate
Build Platform temperature	30 - 120 °C adjustable with 1 °C resolution
Build Platform levelling	Automatic and active bed levelling with the help of capacitive sensor
Build plate heat up time	<4min from 20°C to 60 °C
Nozzle heat up time	< 2 minutes
Operating sound	< 51 dBA
Operating Ambient Temperature	15 - 32 °C , 10-90% RH non- condensing
Compatible Materials	PLA, Tough PLA, ABS, Nylon, CPE, CPE+, PP, PC, TPU 95A, PVA, composite materials etc. Compatible with over 190 materials.
Advanced materials	Must be upgradable to Metal (Green part) 3D Printing solution
Soluble support material	Water soluble & Chemical free support removal process
Dedicated breakaway support material	Support material should be easy and quick to remove (Tear/ Pull / Peel).
Additional materials	Should support third party filaments with 2.85mm diameter
Feeder mechanism	Geared, abrasion- resistance, reinforced for composite materials & Bowden tube.
Feeder Nozzle Diameter	Must support the following diameters - 0.25mm, 0.4mm, 0.6mm, 0.8 mm
Feeder Nozzle Temperature	User adjustable 180 °C to 280 °C
Material Recognition	Auto recognition with NFC scanner



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Connectivity	WiFi, LAN, USB port (accessible through LCD screen)
Display	4.7" (11.9 cm) colour touchscreen
Supported 3D CAD File Types	STL, OBJ, X3D, 3MF, BMP, JPG, PNG
Printable format	G, GCODE, UFP
Print Monitoring (Live)	Integrated vision sensor with software support
Remote print control	Start, Stop, Pause & monitor status of print.
Printer Management	Cloud based access to printer within the organization. Should have the ability to share printer, create teams, set access rights and print job approval steps to control what is printed.
Software	Software should be capable of automatic support structure generation. Should include remote printing and monitoring capability. Should have predefined profile settings for more than 45 materials like Ensinger, infinite, BASF, Arkema, Lehigh, Jabil, Ibus, Kimya, Clariant, Polymaker, Mitsubishi, Lubrizol etc.
Electrical safety	Product should undergo & pass testing according to the IEC 60950-1 and/or IEC 62368-1. Product should undergo and pass Hi-pot testing before shipment.
Mechanical safety	Product should be compliant with the Machine Directive 2006/42/EU
Certification	Product should be BIS, WPC, CE, EU, ROHS certified. Certificates to be provided. ISO 9001: The bidder or the OEM of the offered product must have ISO 9001 certification.
Additional Requirements	<ol style="list-style-type: none"> Bidder should be OEM or OEM authorised Indian representative. In case of authorised representative: OEM authorization to be Provided. Bidder should have a 3-year proven record of sales of same or similar category product to reputed Government, research organizations and educational institutes. Relevant proof of the same should be enclosed.

- The Vendor shall do the entire Installation, demonstration, relevant software's and Trainings of Machine Operation.
- Vendor shall be responsible to perform the Quality check for the Equipment.
- Vendor shall provide all the basic Accessories necessary with respect to the equipment.


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