



KANNUR UNIVERSITY

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Thavakkara, Civilstation P.O.,

Kannur, Kerala - 670002

Tel: 04972715321

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TENDER NOTICE

ANRF/ANRF I - 3/3891/2026

04.03.2026

Sealed tenders with superscription "**Supply and Installation of 3D Printer**" are invited from eligible, reputed, and bonafide agencies for the Supply and Installation of 3D Printer at Department of IT, Mangattuparamba Campus, Kannur University, Mangattuparamba Campus P.O., Kannur - 670 567 (Under ANRF PAIR Project), in accordance with the Technical Specifications and Schedule detailed below. The Registrar, Kannur University reserves the right to accept or reject any tender without assigning any reason thereof.

TENDER NOTICE NO	ANRF/ANRF I - 3/3891/2026
NAME OF WORK	Supply and Installation of 3D Printer
EMD	₹ 3,540/-
TENDER SUBMISSION FEE	₹ 826/- (Including 18% GST of ₹126/-)
MODE OF PAYMENT	Demand Draft
LAST DATE AND TIME FOR RECEIPT OF TENDER	16.03.2026, 03.00 PM
DATE AND TIME OF OPENING TENDER	16.03.2026, 03.30 PM
ADDRESS OF THE OFFICER TO WHOM TENDERS ARE TO BE SUBMITTED	The Registrar, Kannur University, Civil Station (PO), Thavakkara, Kannur- 670002

TECHNICAL SPECIFICATIONS

- Industrial Grade FDM 3D Printer with Smart Toggles
- Fully enclosed design with a proper enclosure
- AI-powered error detection with onboard vision system for print failure prevention.
- Adaptive Airflow System with advanced cooling and carbon filtration for temperature consistency and clean operation.
- Auto Flow Dynamics Calibration ensures consistent filament flow and reliable extrusion.
- Quick-swap hotend system for fast maintenance and nozzle changes.
- Includes AMS 2 Pro for multi-material/multi-colour printing and active filament drying (combo version).

General Form of File ANRF/ANRF I - 3/3891/2026 Approved by Registrar on 04-Mar-2026 09:21 AM - Page 1



Technical Specifications – P2S Build & Body

- Chassis: Plastic and Steel
- Outer Frame: Plastic and Glass
- Net Weight: Approx 15.0 kg (or less)
- Extruder Gear: Hardened Steel
- Nozzle: Hardened Steel
- Max Nozzle Temperature: 300 °C (or Less)
- Included Nozzle Sizes: 0.4 mm (standard) (or less)
- Supported Nozzles: 0.2 -1.0 mm
- Filament Diameter: 1.75 mm
- High-precision PMSM Servo Extruder with improved torque for stable extrusion
- Build Plate Material: Flexible steel with textured PEI surface
- Max Heatbed Temperature: 110 °C (Or Less)
- Supported Plates: Textured PEI, Smooth PEI, Cool Plate SuperTack (varies by region)
- Max Print Speed: 500–600 mm/s (or more)
- Acceleration: 20,000 mm/s² (Or Higher)
- Broad material support including PLA, PETG, ABS, ASA, TPU, PA, CF/Glass-reinforced filaments (enclosed helps warping-sensitive materials).
- AI Failure Detection
- Filament run-out sensor (with AMS)
- Adaptive airflow and active venting for humidity and cooling control.
- 1080p HD camera for real-time monitoring and timelapse.
- Display: 5-inch touchscreen (854 × 480) (Or higher)
- Processor: Quad-core + Neural Processing Unit (AI error detection)
- Network: Dual-band Wi-Fi
- Storage: 8 GB onboard + USB support
- Control Interfaces: Touchscreen, Centralized Multi-Brand Web Dashboard
- Full LAN-Mode Functionality.
- GPIO Peripheral Controller
- 32-Bit Cortex-M4 Controller
- Primary Slicer: supports third-party slicers exporting G-code.
- Warranty : 1 year or more.

DELIVERY LOCATION

Department of IT,
Mangattuparamba Campus,
Kannur University,
Mangattuparamba Campus P.O.,

Kannur - 670 567



TERMS AND CONDITIONS

Tender form and General Conditions can be downloaded from University Website www.kannuruniversity.ac.in.

The acceptance of Tenders will be subject to the following conditions:

1. The Tender Fee and EMD should be remitted by way of Demand Draft drawn in favour of the Finance Officer, Kannur University, payable at Kannur.
2. The bidder should send, along with his tender, a preliminary agreement executed and signed in Kerala Stamp Paper of value of Rs.200/- (**Format Available in the University Website**).
3. The rate tendered should be inclusive of all taxes and charges for delivery and installation of items at the Department.
4. The bidder shall provide the **Make, Model, and detailed technical specifications** of the items wherever specified and shall ensure full compliance with all specifications listed in the Tender Notice.
5. The bidders shall keep their rate firm for a period of **120 Days**.
6. Bidder must have a **registered office in Kerala for Last 3 years**. Proof of this must be submitted.
7. The bidder's firm/OEM must provide **onsite support within 48 hours of complaint**, as needed during the warranty period, at Mangattuparamba Campus, Kannur University.
8. The bidder **escalation matrix must include details for at least 3 service engineers**, along with their email IDs and contact numbers.
9. A **self-declaration certificate confirming that the bidder is not blacklisted** must be submitted.
10. A **warranty declaration certificate** from the OEM/Bidder for this bid is required.
11. The bidder must comply with all applicable local, state, and federal laws and regulations, and any disputes arising shall be subject to the jurisdiction of the courts in Kerala.
12. Valid company registration certificate should be submitted. For start-ups, the bidder must be registered as a Startup with the Department for Promotion of Industry and Internal Trade (DPIIT). A **valid Startup Recognition Certificate** must be submitted along with the bid.
13. The MSME firm must possess a valid **Micro or Small Enterprise (MSE) registration certificate** (Udyam Registration) and submit the same.
14. The bidder must submit a **valid GST Registration Certificate, PAN Card and Bank Account Details** of the registered office along with the bid documents.
15. The Buyer reserves the right to disqualify bidders during the technical evaluation if any of the documents specified in the Terms and Conditions or any other required documents are not uploaded along with the bid, without seeking further clarification from the bidders.
16. The successful bidder shall, before signing the agreement and within the period specified in the letter of acceptance of this tender, deposit a sum equivalent to **5% of the value of the contract as Security Deposit**.
17. The payment will be made through the account only after the delivery, testing and on proper presentation of the bills (in original and duplicate) along with advance stamped receipt specifying the letter of acceptance number and date. No advance payment will be made.



18. Further Information and inquiries can be obtained from the Co-Investigator, Dr. N. S. Sreekanth, 9243037002

19. Tender Schedule is Attached as Annexure -1



Prof. (Dr.) Joby K Jose

Registrar



ANNEXURE-1

TENDER SCHEDULE

Sl No	Item Description	Quantity	Amount (₹) (Including GST)
1	Supply and Installation of 3D Printer	1	
	(Rupees.....only)		

Signature:

Name, Address, Email ID & Contact Number of the Tenderer :

Place & Date:



REGISTRAR

