Tender Enquiry

(E-Procurement Mode)

For

SUPPLY AND INSTALLATION OF NON CONSUMABLE

Notice Inviting E-Tender (E-Procurement Mode)

Date: 29.10.2026

IIITDM Kancheepuram (the Institute) invites online bids under the two-bid system from eligible bidders for Supply and Installation of Non Consumable in accordance with the specifications in Annexure-1.

Tender Enquiry No.	IIITDMK/26-27/SP/EquipSIDI/008 Dt29/10/26
Description	Supply and Installation of Non Consumable (Specification/Quantity details enclosed as Annexure-1)
Mode of Tender	E-Procurement through CPPP; Two-Bid System
EMD / Bid Security	Rs. 18,000/-
Bid Submission End	18 November 2026 - 15:00 HRS
Bid Opening	19 November 2026 - 15:30 HRS
Bid Validity / Delivery	**Bid validity: 180 days from Technical Bid opening | Delivery: within 03 weeks from Purchase Order**

Official Communication: The Registrar, IIITDM Kancheepuram | purchase@iiitdm.ac.in

1. BID SUBMISSION AND DOCUMENTS

- Bids shall be submitted online on CPPP using a valid Digital Signature Certificate (DSC).
- Technical Bid and Commercial Bid shall be submitted separately. **Price information shall not appear in the Technical Bid.**
- The Technical Bid shall be uploaded as a single serially numbered PDF containing all required documents and annexures.
- Commercial Bid shall be submitted only in the prescribed CPPP BoQ and quoted in INR. GSTIN, HSN/SAC and applicable GST rate shall be indicated wherever provided.
- Any corrigendum issued through CPPP / Institute website shall form part of the tender.

2. GENERAL TERMS AND CONDITIONS

1. **Tender / Bid System:** Two-bid system: (i) Technical Bid and (ii) Commercial Bid.
2. Bids not submitted in the prescribed manner are liable to rejection.
3. **EMD:** EMD of Rs. 18,000/- shall be remitted online through SBI E-Collect and proof uploaded with the Technical Bid. EMD may be forfeited for withdrawal/modification of bid during validity or failure to fulfil post-award obligations.
4. The bids will be evaluated technically, whether bidder has quoted for all items and required brands. All such bidders will be recommended technically and their commercial bids will be opened

5. **Commercial Evaluation / L1:** L1 shall be determined on the total landed cost of all tendered items, inclusive of freight, installation and commissioning, insurance, taxes and incidental charges. Item-wise comparison and partial award are not permitted. The total cost will be taken into account for arriving at L1, subject to applicable purchase-preference policies.
6. **Delivery including installation:** Complete supply shall be made at IIITDM Kancheepuram, Melakottaiyur, Off Vandalur-Kelambakkam Road, Chennai - 600 127, within 03 weeks from the date of Purchase Order.
7. **Inspection / Acceptance:** Items shall conform to the specifications, brand/make and quantity stated in Annexure-1 and shall be subject to inspection and acceptance by the Institute. Non-conforming or defective items shall be replaced by the supplier without additional cost.
8. **PBG / Security Deposit:** The successful bidder shall furnish Performance Bank Guarantee / Security Deposit equal to 5% of Purchase Order value, valid for the applicable warranty period plus two months.
9. **Payment:** No advance payment. 100% payment shall be made after satisfactory delivery and acceptance of the items, subject to submission of the prescribed PBG / Security Deposit.
10. **Freight and Insurance:** Rates shall be F.O.R. IIITDM Kancheepuram and shall include packing, forwarding, freight, loading/unloading, insurance, taxes and all incidental charges. The supplier shall bear transit risk until delivery at the Institute.
11. **Liquidated Damages:** Delay beyond the stipulated delivery period shall attract LD at 1% of the order value for every week or part thereof, subject to a maximum of 10%. The Institute may cancel the order if delay exceeds 04 weeks, subject to the tender conditions.
12. **Force Majeure:** A party affected by an event beyond its reasonable control shall promptly notify the Institute. Relief, if any, shall be considered in accordance with the Force Majeure provisions of the tender.
13. **Fall Clause:** During the currency of the contract, the price charged shall not exceed the lowest price at which identical stores are sold to any other person/organisation.
14. **Integrity / Fraud and Corruption:** Bidders shall observe the highest standards of integrity and shall not engage in corrupt, fraudulent, collusive or coercive practices. Violation may lead to rejection/debarment and other action under applicable rules.
15. **Arbitration:** Disputes shall, after 30 days' written notice, be referred to an arbitrator nominated by the Director, IIITDM Kancheepuram. Venue of arbitration: Chennai, India.
16. **Option Clause:** The Purchaser reserves the right to increase or decrease the quantity up to 25% of the bid quantity at placement of contract and may increase the ordered quantity up to 25% during the currency of the contract at contracted rates.
17. **Jurisdiction:** Courts in Chengalpattu District, Tamil Nadu shall have jurisdiction.
18. **Right to Accept / Reject:** The Competent Authority reserves the right to accept or reject any or all bids, wholly or partly, without assigning reasons, subject to applicable procurement rules.

Note: In case of conflict between this short tender and any corrigendum issued on CPPP, the latest corrigendum / tender condition published by the Institute shall prevail.

Sd/-

कुलसचिव / **Registrar**

IIITD&M Kancheepuram

ANNEXURE-1

TECHNICAL BID

Technical Compliance Sheet (to be filled and uploaded)

Name of the Agency	
Office Address:	
Name and Mobile No. of contact person:	
EMD AMOUNT	**Rs.18,000/-**
Mode	**Online payment through SBI E-Collect**
Payment Date	
SBI E-Collect / Transaction Reference No.	
Bank / Branch	

SI No	Item / Specification		Quantity	Compliance Yes/No/N.A.	Remarks
1.	**Professional High-Speed CoreXY FDM 3D Printer**		**1**		
1.1.	Technical Parameter	Required Specification (Equivalent or Better)			
1.2.	Printing Technology	Fused Deposition Modeling (FDM) / Fused Filament Fabrication (FFF)			
1.3.	Kinematics Structure	Core: X-Y motion structure (for high speed and rigidity)			
1.4.	Build Volume (L × W × H)	Minimum 256 mm × 256 mm × 256 mm			
1.5.	Max Toolhead Speed	Minimum 500 mm/s			
1.6.	Max Toolhead Acceleration	Minimum 20,000 mm/s²			
1.7.	Hot End / Nozzle	All-Metal hot end with Hardened Steel Nozzle (up to 320°C)			
1.8.	Active Chamber Heating	Yes, temperature regulated up to 60°C to reduce warping			
1.9.	Air Filtration System	Multi-stage HEPA (H12 equivalent) and Activated Carbon for VOCs/Particulates			

1.10.	Networking & Security	Ethernet port (100 Mbps), Wi-Fi with WPA2-Enterprise Authentication, and Network Kill Switch (LAN-only mode capable)			
1.11.	Material Compatibility	PLA, PETG, ABS, ASA, PC, PA, TPU, and Carbon/Glass Fiber Reinforced filaments (including PPA-CF/GF, PPS)			
1.12.	Filament Management	Capability to support auto filament reload and multi-material/multi-color printing (up to 16 spools via parallel system connection)			
1.13.	Failure Detection	AI-assisted failure detection (e.g., Lidar/Camera) for first-layer inspection and spaghetti failure			
1.14.	Warranty	Minimum 3 Years Comprehensive OEM Warranty			
2.	**Hybrid Metrology-Grade 3D Scanner**				
2.1.	Technical Parameter	Required Specification (Equivalent or Better)			
2.2.	Scanning Technology	Hybrid Dual-Mode: Blue Laser + NIR Infrared Structured Light			
2.3.	Laser Lines	Minimum 7 parallel blue laser lines			
2.4.	Accuracy (Metrology Grade)	Up to 0.02mm (in Blue Laser Mode)			
2.5.	Scanning Speed	Up to 60fps (Blue Laser mode) and up to 20fps (NIR mode)			
2.6.	Color Mapping / Texture	24-bit full-color RGB scanning capability			
2.7.	Markerless Scanning	Must support scanning of black and metallic objects without the need for scanning spray	**1**		
2.8.	Object Size Range	Flexible scanning volume from 5mm up to 2000mm			
2.9.	Anti-Vibration	Built-in anti-shaking or stabilization technology for smooth handheld scanning			
2.10.	Weight & Portability	Handheld and lightweight (Under 450 grams)			
2.11.	Connectivity	High-speed data transfer (USB 3.0 / USB 3.2 Gen 1 Type-C equivalent)			
2.12.	Warranty	Minimum 3 Years Comprehensive OEM Warranty			
3.	**High Power Professional Enclosed Laser Engraver and Cutter (60W)**				
3.1.	Technical Parameter	Required Specification (Equivalent or Better)	**1**		
3.2.	Optical Power	Minimum 60W synchronized diode laser output			

3.3.	Safety Features	Fully enclosed design, Class 1 Laser Safety Rating (FDA or equivalent), and advanced interlock system			
3.4.	Engraving Area	Minimum 400 mm × 400 mm			
3.5.	Cutting Capability	Capable of cutting 20-22mm wood, up to 30mm acrylic, and engraving 0.2mm stainless steel			
3.6.	Motion System / Speed	CoreXY structure enabling speeds up to 600 mm/s			
3.7.	Vision System	Built-in HD Smart Camera for positioning and monitoring			
3.8.	Cooling System	Integrated air-assist / cooling system to support continuous operation			
3.9.	Interchangeable Modules	Support for optional fine-detail lower wattage modules (e.g., 1.6W) with quick-swap capability			
3.10.	Software Compatibility	LightBurn and LaserGRBL compatible			
3.11.	Supported Materials	Wood, acrylic, leather, fabric, cardboard, rubber, and thin soft metals			
3.12.	Warranty	Minimum 3 Years Comprehensive OEM Warranty			
4.	**Desktop Pro CNC Router Machine (Metal Frame)**		**1**		
4.1.	Technical Parameter	Required Specification (Equivalent or Better)			
4.2.	Machine Type	Desktop CNC Router			
4.3.	Frame & Structure	Durable Metal Frame with Upgraded All-Metal Z-Axis Module for enhanced rigidity			
4.4.	Working Area	Minimum 300 mm × 180 mm × 45 mm (Standard 3018 footprint)			
4.5.	Spindle Motor	Standard high-speed spindle (775 motor or equivalent upgradable option)			
4.6.	Processing Precision	0.1mm Industrial-Grade Precision			
4.7.	Material Capability	Wood, plastic, acrylic, PCB, and true soft metal processing (e.g., aluminum, copper)			
4.8.	Connectivity / Operation	Support for USB, 2.4G Wi-Fi, and Offline operation			
4.9.	Extensibility	2-in-1 Hybrid capability (support for optional laser engraving module upgrades)			
4.10.	Warranty	Minimum 3 Years Comprehensive OEM Warranty			
5.	**High-Resolution Desktop SLA/LCD Resin 3D Printer**		**1**		
5.1.	Technical Parameter	Required Specification (Equivalent or			

		Better)			
5.2.	Printing Technology	SLA / MSLA (Masked Stereolithography) Resin 3D Printing			
5.3.	Build Volume (L × W × H)	Minimum 160 mm × 70 mm × 165 mm			
5.4.	XY Precision / Resolution	22 µm or finer (8K class resolution required for high-detail accuracy)			
5.5.	Masking Screen	7.0-inch to 7.5-inch Monochrome LCD			
5.6.	Layer Thickness (Z-axis)	Adjustable from 0.01 mm to 0.30 mm			
5.7.	Maximum Print Speed	Minimum 75 mm/hour			
5.8.	Light Source	Uniform UV LED Projection / Matrix Light Source			
5.9.	Z-Axis Mechanics	High-stability Single Linear Rail with Lead Screw drive			
5.10.	Build Plate Material	Aluminum with PEI coating or laser-engraved surface for adhesion			
5.11.	Control Interface	Minimum 3.5-inch Color Touchscreen Display			
5.12.	Data Connectivity	USB input for standalone/offline printing			
5.13.	System Power	Energy efficient (Maximum 60W consumption), 240V AC compatible			
5.14.	Slicing Software	Must be compatible with universal slicers (Chitubox, Lychee, etc.)			
5.15.	Warranty	Minimum 3 Years Comprehensive OEM Warranty			

Note:

1. **The total cost will be taken into account for arriving L-1.**
2. **The Bidder has to quote for all the items failing which the quote will not be considered for technical evaluation**