**Tula’s Institute**

**Dhoolkot, PO-Selaqui, Chakrata Road, Dehradun, Uttarakhand**

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**Tender Ref No. Idealab//2025-26/001 Dated: 25/03/2025**

## NOTICE INVITING TENDER

E-Tenders are invited in a two-bid system (Technical and Financial) for the supply/execution of the item(s)/stores/work as specified below. Submissions are invited from Original Equipment Manufacturers (OEMs) or their Authorized Distributors only, in accordance with the provisions of **GFR 2017** and the terms and conditions outlined in the tender document.

The interested bidders should Courier/email/registered post the duly signed tender form and their bids along with scanned copies of all the relevant certificates, documents, etc., in support of their technical & price bid all duly sealed and signed should be sent.The technical bids will be opened on **15/05/2025 at 5.00 P.M/** in the office of Officer in Charge (PURCHASE).

The tender document including item specifications, eligibility conditions, and terms, can be viewed and downloaded from the website of **Tula’s Institute**, **Dhoolkot, PO-Selaqui, Chakrata Road, Dehradun, Uttarakhand** at [**www.tulas.edu.in**](http://www.tulas.edu.in)

Yours faithfully,

Officer In-charge (PURCHASE)

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| **S. NO.** | **DESCRIPTION** | **QTY. (No.)** |
| 01. | **Laser Cutting Machine, Non-Metallic, CO2, Glass/steel tube, 8 feet \* 4feet in dimension, with power supply**  Structure: Iron Fabrication Structure  Laser Power: 80-110 Watts  Working Area: 1300× 2500 mm  Z-axis Work Size: 30 mm  Transmission Way: X, Y, Z-square linear rail and round timing belt  Control System: RD Controller USB  Laser Source: CO2 Gas Glass Tube  Cooling Way: Water Cooling Chiller  Motor: Stepper  Mirror: 25 mm Dia Metal Gold Coated  Lens: 19 mm Dia German Make  Connectivity: USB, Ethernet Cable  Command Code: HPGL, G Code  Working Speed: 0–400 mm/sec  Working Precision: 0.05 mm  Power: AC 220V ±10% / 50–60 Hz  Controller Software: EzCad  Compatible Software: Corel Draw, Autocad, TYPE 3, Artcam, UG, Pro-e  Machine Size: 1300 cm × 150 cm × 100 cm Optional Features:  AutoFocus  Change to 4-axis  Up and Down Table  Exhaust Fan | 01 Set |
| 02 | **CNC Router, Non-Metallic, with dust collector and power supply,**  Working area – 1300 x 2500mm  Resolution: ± 0.03/300 mm  Repeatability: ± 0.03 mm  Z- Gantry clearance – 250 mm  Total size of machine- 1700 x 3000 x 1500mm  Double motorized- SERVO motors on all axes – LEADSHINE/YAKOSERVO  Electronic assembly- SERVO drives for all axis- LEADSHINE/YAKOSERVO  25mm rack and pinion  20 mm high precision linear guides on X ,Y axes  Backlash free precision hardened and ground ball screw linear rails on Z-axis  SINGLE Spindle 5.5 Kw 0- 24000 (Water Cooled)  Spindle control (VFD)- INNOVANCE/FOLIN  Rapid transverse speed up to 20 meter/minute  Max working speed up to 18 meter/minute  Lathe structure: welding steel structure  AC 220V, 50/60 Hz, Single Phase  AC 415V, 50/60 Hz, Three Phase  The system should support both Stepper and Servo motors.  Table Type: T-slot  Linear Guide: Hg 20 for X, Y, and Z axes  Command Code: The system should support G Code formats (\*nc, \*mmg, \*plt,  \*cnc).  Operating System: DSP Control System  Memory: 128 MB or support for Flash Drive  Dust Collector: The system should include a dust collector hood | 01 Set |
| 02 | 3D Printer, bed size 300mm\*300mm, multi thread, multi head, high resolution quality printing  Build Volume: 325 X 325 X 315 mm  Printing Speed: 600 MM/ Sec  Single nozzle with 350°C  Printing acceleration - 20000 MM/Sec  Hotbed temperature - 110°C  Direct drive extruder  Firmware: Klipper  Main Processor - cortex A53,  Wifi, SD card, Pendrive,  Chamber Temperature : 60°C  Materials: PLA, ABS, Carbon fiber, glass fibre, Nylon, PETG, ETC | 01 Set |

Details on the next page

### Important Dates for Tender

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| S no | Description | Date and Time |
| 1 | Tender Publish date | 25.03.2025 |
| 2 | Start Date of Document Download | 15. 04.2025 |
| 4 | Bid Submission Start Date | 22.07.2025 |
| 5 | Last Date and Time for Submission of Bids | 25.04.202504.00 PM |
| 6 | Date of Technical Bid Opening | 25.04.202503.00 PM |
| 7 | Date of Financial Bid Opening | Will be intimated to the qualified bidders separately |
| 8 | Bid Validity Period | 90 Days |
| 9 | Delivery Timeline | 4 weeks from the Date of Purchase Order |