

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

REQUEST FOR QUOTATION

Tender No. IITK/TA202-Lab./2018-2019/01

Tender Opening date: 13/02/2019

Tender Closing Date: 25/02/2019

Sealed two bid system type tender are invited for 3-D printer as per details given below.

Quantity: 01

Tender Document for 3D Printer

- Technology: Fused Deposition Modelling
- Build Volume: 240 mm x 300 mm x 300 mm or larger
- Extruder diameter - should be small, ~ 0.4 mm. Options for multiple extruder diameter will be preferred
- Printing Filament: PLA, PVA, ABS, NYLON, HIPS etc. More materials option would be preferred
- Number of nozzles: 2 (Dual Nozzles). Must be capable of having e.g. water soluble PVA for one nozzle for support creation and having another material e.g. ABS on another nozzle for part creation
- Minimum layer thickness: less than 50 microns
- Maximum layer thickness: 500 microns
- Positioning accuracy: 10 microns or better
- Part print precision (approx.): 100 microns or better
- Print Speed: Up to 200mm/sec
- Extruder/Nozzle Temp: Up to 265 degrees Celsius or higher
- Heated bed – required. Removable heated Bed so that object can be taken out easily Mechanism (heat spreader) to ensure uniform heating
- Hot Bed Temp: Up to 100 degrees Celsius or higher
- Power supply: 220 V (single phase)
- Filament diameter: 1.5 mm to 2.0 mm freely available in the open Indian market from multiple vendors.
- Option of colored filament use would be preferred.
- Compatibility with 3rd party filaments: YES
- Connectivity: Wi-Fi, USB, LAN/SD card
- Operating System: Windows and Linux
- File Format: STL, GCODE, OBJ
- Seller should provide a state-of-the-art computer required, along with equipment softwares, with the FDM machine. The software licensing should be perpetual and should not to be renewed.
- Software OS: Faster slicing, placement, nesting, viewing, modify. Software supplied should be capable of Import/Export, Basic Design Data from 3rd Party CAD Software Packages like SOLID WORKS, CATIA, Pro-E, PTC Creo 3D etc.
- Filament Break Warning and Power off Resume: Yes
- Bed levelling: Automatic
- Body: Powder coated metal frame or equivalent
- Working zone: Closed (with a view glass)
- Machine Dimension (approx.): 600 x 600 x 800 mm or smaller

- At least 2 kg build material for initial printing to be included. Materials to have a shelf life of at least 36 months from the date of supply
- Also include the price of each raw material (that the equipment can handle) as optional items
- The wastage (if any) has to be non-hazardous and should not require any special procedures/treatment for its disposal.

Terms and Conditions:

- The bidder must supply and install the items. Data sheets and brochures for quoted items should be provided.
- The 3D printer model being quoted must have been sold for more than 2 years in India. Supporting documentation (work orders or purchase orders) for the same must be provided.
- More than 50 units of the 3D printer being quoted must have been sold in India till date. Supporting documentation (work orders or purchase orders) for the same must be provided.
- The 3D printers must be fully serviceable in India.
- Repair/replacement in event of breakdown of machines must be carried out within 5 working days of reporting of issue during the warranty period and/or AMC.
- Provide “Authorization certificate” from the manufacturer, in case the quotation is submitted by an Indian Agent.
- Prices should be FOB/ CIF up to IITK.
- Prices should include installation and training cost, and all additional charges including freight, insurance etc.
- Validity of quotation should be at least for 30 days.
- Warranty: Completely comprehensive warranty for 2 years. During the warranty period, should there be a failure of any parts, these parts have to be replaced free of cost. The comprehensive warranty should cover all the parts of the machine including electrical, electronic and mechanical systems/components. Additional 1 year extended support warranty.
- The supplier should provide training for the use of the equipment.
- An undertaking that the vendor will supply all the spares and services for the equipment for at least 5 years from the date of commissioning.
- Availability of after sales service and support in India. Supplier has to compulsorily indicate details of facilities/expertise/qualification/cost (after warranty period) of support in India. Factory trained engineers should be available in India for complete product support.
- Discount: maximum educational discount to be provided keeping in view IITs being nonprofit making organizations.
- Normal payment terms for the institute will be applicable.
- Delivery must be within 4-5 weeks. Earlier would be better.
- In case of any dispute, the decision of the Institute authority shall be final.

Kindly send hard copy of your best offer (Technical and Commercial offers separately in two envelopes. The Financial Bid should include the detailed price quotation clearly including the cost of the equipment, taxes, service charges if any, shipping and handling charges) so as to reach us on or before February 25, 2019 (by 3.00 PM) to the following address.

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