

INDIAN INSTITUTE OF TECHNOLOGY, KANPUR

REQUEST FOR QUOTATION

Tender No. IITK/4i-Lab./2016-2017/01

Date: 28/02/2017

Tender Opening date: 28/02/2017

Tender Closing Date: 07/03/2017

Tender Document for 3-D printer.

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

Major requirements:

- 1) 3D printer to support build sizes of at least 300 mm x 320 mm x 350 mm.
- 2) Minimum accuracy of 100 micron for 3D prints or better.
- 3) Minimum building speed of 30cm/s and deposition rate of 30 cm³/hr/ or better
- 4) Ability to support a wide range of ABS, PLA, Nylon, flex PET-G and other thermoplastic filaments of diameter 1.5 mm to 2.0 mm freely available in the open Indian market from multiple vendors. Minimum filament weight in filament cartridge to be 1kg or more for continuous print of large parts. No proprietary cartridge or RFID restriction on filament sourcing for printer.
- 5) Ability to support standard STL, OBJ files for 3D printing.
- 6) Removable heated Bed so that object can be taken out easily. Build surface to have PCB heated bed and heat spreader to ensure uniform heating.

Other requirements:

- 7) Preferably on Board computer so that no extra desktop is required.
- 8) At least 2 kg build material for initial printing to be included.
- 9) SD card/USB slot desirable.
- 10) Provision of bed adhesive solution to ensure that ABS/PLA parts stick on bed 100%.
- 11) Open source software will be preferred for machine control and converting 3D image to 3D print. No proprietary software. This should be mentioned in the tender.
- 12) Power backup feature.
- 13) At least 2 year warranty for all parts
- 14) Comprehensive hands-on training to be provided to staff for operation of 3D printer, along with complete manual for 3D printer construction, operation, maintenance.
- 15) Onsite Installation of machine at IIT Kanpur.

Terms & Conditions.

- Tender to be submitted in two separate envelopes, one each for Technical & Financial bid, kept in a single envelop addressed to the undersigned.
- Hard copy of the tender must reach before date 07/03//2017 to the mentioned ADDRESS.
- Maximum Discount to be offered keeping in view IIT's being nonprofit making organizations.
- Only OEM authorized dealers need to participate. Certificate submission with tender is mandatory.
- Bidder must mention tender number on envelope clearly identifying the technical bid and financial bid.

All hard copy quotations to be send to (please do not send e-mail/electronic files):

**Prof. Sameer Khandekar
Head 4-I, Laboratory,
IIT Kanpur-208016**