

**INDIAN INSTITUTE OF TECHNOLOGY ROPAR, RUPNAGAR-140001 (PUNJAB)  
DEPARTMENT OF MECHANICAL ENGINEERING**

Dated: 26-2-2010

**SUBJECT: N.I.Q. for purchase of 3D Printing Machine**

Sealed quotations are invited for the purchase of 3D Printing Machine. The equipment is to be installed at IIT Ropar (Roopnagar) Punjab. The quotations should reach in the office of Dr. Harpreet Singh (Room No. 208, Mechanical Engineering Department) latest by 3:00 PM on March 17, 2010.

**1. 3D Printer System alongwith Ultrasonic Cleaning Machine: One (1)**

**Technical Specifications:**

Technology	Rapid Prototyping system based on Fused Deposition Modeling Technology
Build Size	203 x 152x 152 mm (8 x 6 x 6 inches) or equivalent
Materials	ABS <i>plus</i> robust plastic material that can be used for Fit/ Form/ Function. The Material should be capable for creation of patterns for sand / investment / vacuum casting
Layer Thickness	Minimum 0.245 mm (.010 in.)
Toxicity	Non Toxic Process and Materials
Support Structures and Removal	Soluble support removal process for hands-free model completion
Software	Automatic pre-processing, slicing, support generation, part packing/ nesting.
Operator	Unattended operation
Network Connectivity	TCP/IP 100/10 base T
Workstation Compatibility	Windows XP / Windows Vista
Consumables	For an anticipated period of one year
Ultrasonic Cleaning Machine	250W, 25±3 kHz, Solid state module, PZT type transducer, 17 litres capacity, 400 W heater and fitted with thermostat

**Terms and Conditions:**

1. The Supplier should have trained/certified manpower of the same equipment that has undergone training at the principal head Office. A certificate to this effect from the principals needs to be incorporated along with the offer.
2. The Supplier should have proven track record of installing/maintenance/servicing for the equipment to be supplied

3. The Supplier should have installed similar machines based upon ABS/ABS+ technology in India
4. The Supplier should be callable of giving an in-house Demo of the machines of the same technology, if need be
5. The equipments should be supplied and installed at IIT Ropar (ROOPNAGAR) Punjab
6. The prices quoted should be inclusive of all taxes and CIF IIT Ropar
7. The quotation received after due date will not be considered
8. The Institute reserves the right to reject any quotation without assigning any reasons
9. The suppliers MUST support the quoted specifications with the help of original printed manuals of the equipments
10. The payment terms should be specified in the quotation clearly
11. The suppliers may mention any number of optional accessories in their quotes; however the same should be clearly distinguished from the main requirements along with their individual prices
12. The suppliers should supply service and operational manuals of the systems.
13. EMD of Rs. 0.25 Lac in the name of Registrar, IIT Ropar is to be deposited along with the quotation.
14. The quotations MUST include a detailed compliance report vis-à-vis required specifications.
15. The manufacturers should provide a performance guarantee certificate for all the specifications.
16. Validity of the quotations should be at least 3 months.
17. Indian Agency Commission if any should be specified separately.
18. Manufacturer's agent should provide an authorization certificate from the Principles.

(Mr. Lagvish Kumar)

(Dr. Himanshu Tyagi)

(Dr. Harpreet Singh)

(Prof. B.K. Dhindaw)