



**Indian Institute of Technology Kanpur**  
**Department of Electrical Engineering**

Enquiry No: IITK/EE/MIPS/02 /2017  
Date:11/10/2017  
Closing Date: 06-11-2017

Sealed quotations are invited by post/courier for the supply of following item as per the specifications mentioned below along with complete terms and conditions. Party must attach all the related certificates like Agency certificate, Proprietary item certificate (if applicable) etc. Quotation not accompanied with proper certifications will be rejected.

SNo.	Complete description / specification of items required	Qty.
1.	Ultimaker 2+ (3DPrinter)	01
	Nova PLA/ABS 2.85mm(Material)	06

**Ultimaker 2+ Specifications**

**Dimensions and Weight**

Dimensions with bowden tube and spool holder: 342 x 493 x 588 mm (13.5 x 19.4 x 23.1 inches)  
Weight: 11.3 kg (399 ounces)  
Build volume Dimensions 223 x 223 x 205 mm (8.8 x 8.8 x 8.1 inches)

**Printer and printing properties**

Assembly type Pre-assembled  
Layer Resolution 0.25 mm nozzle: 150 to 60 micron  
0.40 mm nozzle: 200 to 20 micron  
0.60 mm nozzle: 400 to 20 micron  
0.80 mm nozzle: 600 to 20 micron  
Build plate 50 °C to 100 °C heated glass build plate  
Build plate leveling Assisted leveling process  
Print technology Fused Deposition Modeling (FDM)  
Print head Swappable nozzle  
Build speed 0.25 nozzle: up to 8 mm<sup>3</sup>/s  
0.40 nozzle: up to 16 mm<sup>3</sup>/s  
0.60 nozzle: up to 23 mm<sup>3</sup>/s  
0.80 nozzle: up to 24 mm<sup>3</sup>/s  
Print head travel speed 30 to 300 mm/s  
Feeder type Geared feeder  
XYZ accuracy 12.5, 12.5, 5 micron  
Nozzle diameter Included are 0.25, 0.4, 0.6 and 0.8 mm nozzles  
Nozzle temperature 180 °C to 260 °C  
Nozzle heat up time ~ 1 minute  
Build plate heat up time < 4 minutes  
Operating sound 50 dBA

**Materials**

System Open filament system  
Filament diameter 2.85 mm  
Supported materials PLA, ABS, CPE, CPE+, PC, Nylon, TPU 95A, and PP  
Ultimaker filament A spool of Ultimaker filament is 750 g

**Requirement**

Software Cura, our free print preparation software  
Supported OS Free on macOS, Windows and Linux  
Supported file types STL, OBJ, X3D, and 3MF G and GCODE BMP, GIF, JPG, and PNG  
File transfer Standalone 3D printing from SD card (included)  
Operating ambient temperature 15 °C to 32 °C (59 °F to 90 °F)  
Nonoperating temperature 0 °C to 32 °C (32 °F to 90 °F)  
Input 100 - 240V 4A, 50-60Hz  
Output 24 V DC, 9.2 A

**Terms and conditions**

1. Quotation should also carry certificates such as agency certificate, proprietary certificate.
2. All envelopes should be marked with enquiry number.
3. Cost of the item with technical specifications in detail.
4. Maximum education discount, if any, should be offered.
5. Installation: the price should be inclusive of full installation on site with full functionality. demonstration
6. Training & Installation at our site should be done free of cost.
7. Enquiry will be sent by courier / registered post / speed post and IIT Kanpur will not be liable for any kind of irregularity/delay.
8. The Rate offered should be free delivery to IIT Kanpur or Ex-go down in case of firms situated outside of Kanpur. If items is imported then the firms should quote the price on F.O.B. basis.
9. The rates offered should be exclusive or inclusive taxes. The rates applicable should clearly be specified .
10. The firms are requested to give detailed description and specification together with detailed drawings and printed leaflets and literature of the articles quoted. The name of manufacturers and country of manufacture should also be invariably be stated. In the absence of these particulars the quotation is liable for rejection.
11. The right to reject all or any of the quotations and to split up the requirements or relax any or all of the above conditions without assigning any reason is reserved.
12. All the consignments must be securely packed and booked duly insured addressed to , IIT Kanpur 208016.
13. Institute is partially exempted for payment of Custom Duty @ 5.15% under notification 51/96 and road permit will be provided if applicable.
14. The Penalty @ 1% per week or part thereof subject to a maximum of 10% of the delivery price will be deducted from the balance payment if supply is not completed within stipulated period.
15. Our standard payment terms & condition is 90% against delivery and 10% after inspection and approval.
16. The quotation must reach us latest by 6<sup>th</sup> November, 2017, 5:00 P.M.

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For any clarification, please contact: [rhegde@iitk.ac.in](mailto:rhegde@iitk.ac.in)  
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