

LBS INSTITUTE OF TECHNOLOGY FOR WOMEN, POOJAPPURA
THIRUVANANTHAPURAM

QUOTATION NOTICE

No. P/1715/LBSITW/2026

Dated: 22.08.2026

Quotation Number	P/1715/LBSITW/2026
Date and time of issuing quotation	22.08.2026, 10:00 AM
Due date and time for receipt of quotations	02.09.2026, 2 PM
Date and time for opening of quotations	02.09.2026, 3 PM
Designation and address of officer to whom the quotation is to be addressed	PRINCIPAL LBSITW, POOJAPPURA, TRIVANDRUM.
Superscription: Quotation for the purchase of a 3D Printer CE department of LBSITW.	

Sealed quotations are invited by the Principal, LBS Institute of Technology for Women, Poojappura, Thiruvananthapuram, Kerala, Pin-695012, for the supply of 3D Printer in CE department of LBSITW as specified in the schedule attached below. The rates quoted should be for delivery and installation at the place mentioned above as specified. The necessary superscription, due date for the receipt of quotations and the name and address of officer to whom the quotation is to be sent are noted above. Any quotation received after the time fixed on the due date is liable to be rejected. The maximum period required for the supply of 3D printer in CE department of LBSITW, Poojappura should also be mentioned in your quotation. The prices quoted should be inclusive of materials, labour, conveyance and all taxes/charges etc.

Special conditions if any or printed on quotation notice will not be applicable to the contract unless they are expressly accepted in writing by the undersigned. The quotationer shall also quote the percentage of rebate/discount if any offered by them against the item.

Name of Quotation: 3D Printer CE department of LBSITW of LBSITW.


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- 1) College website, LBS Centre Website
- 2) Notice Board
- 3) O.C



TECHNICAL SPECIFICATIONS FOR 3D PRINTER

Note: The specifications below indicate minimum functional requirements. Equivalent or superior specifications offered by reputed manufacturers will be considered. No particular make, model or proprietary technology is intended to be specified.

Sl. No.	Parameter	Minimum Technical Requirement
1	Printing Technology	FDM/FFF or equivalent material extrusion additive manufacturing technology
2	Build Volume (W × D × H)	Minimum 250 × 250 × 250 mm ³
3	Layer Height / Resolution	0.10 mm or better; finer resolution preferred
4	Positioning / Motion Accuracy	Suitable for accurate fabrication of engineering models; manufacturer to specify
5	Extrusion System	Reliable direct-drive or equivalent extrusion system suitable for flexible and engineering filaments
6	Hot End	All-metal or equivalent hot end suitable for engineering thermoplastics
7	Maximum Nozzle Temperature	Minimum 250°C; 300°C or higher preferred
8	Standard Nozzle Diameter	Approximately 0.4 mm or equivalent
9	Interchangeable Nozzles	Provision for interchangeable nozzles, preferably 0.2, 0.4, 0.6 and 0.8 mm
10	Filament Diameter	1.75 mm or equivalent as appropriate to the offered system
11	Filament Cutter / Management	Automatic or equivalent filament cutting/management system
12	Build Plate	Heated, removable build plate with suitable adhesion surface
13	Build Plate Temperature	Minimum 80°C; higher temperature capability preferred
14	Automatic Bed Levelling	Automatic or assisted bed levelling/calibration
15	Maximum Print Speed	Minimum 100 mm/s
16	Acceleration / Motion Control	Stable and controlled motion suitable for reliable engineering-model printing
17	Supported Filaments – General	PLA, PETG, TPU and equivalent commonly available FDM filaments
18	Supported Filaments – Engineering	ABS/ASA and/or other engineering-grade thermoplastics
19	Advanced Engineering Filaments	Capability for PA, PC or equivalent engineering-grade materials
20	Printing Chamber	Enclosed/guarded printing chamber preferred
21	Cooling System	Automatic/controlled part and hot-end cooling



Sl. No.	Parameter	Minimum Technical Requirement
22	Air Filtration	Integrated air filtration; activated-carbon filtration preferred
23	Filament Run-Out Detection	Required
24	Filament Monitoring / Odometry	Automatic filament monitoring preferred
25	Power Failure Recovery	Automatic print recovery after power interruption
26	Print Monitoring	Integrated camera and/or remote print monitoring
27	Display / User Interface	Integrated display/control panel and/or PC/mobile application
28	Connectivity	USB and/or Wi-Fi/network connectivity
29	Storage	Internal/external storage such as SD card, USB or equivalent
30	Slicing Software	Compatible slicing software to be supplied/licensed as applicable
31	Third-Party Slicer Compatibility	Compatibility with standard G-code or commonly used slicing software preferred
32	File Formats	Support for STL, OBJ, 3MF or equivalent standard 3D-printing formats
33	Operating System	Windows-compatible; other operating systems may be supported
34	Electrical Supply	230 V AC, 50 Hz, suitable for Indian power supply
35	Electrical / Thermal Safety	Thermal runaway protection, over-temperature protection and appropriate electrical safety features
36	Overall Dimensions	Suitable for installation on a laboratory/workshop table; bidder to specify
37	Accessories	Necessary standard tools, nozzle/hot-end accessories, cleaning and maintenance kit
38	Installation & Commissioning	Installation and commissioning at the Department of Civil Engineering
39	Training	Hands-on training for faculty/staff covering operation, slicing, calibration and basic maintenance desirable
40	Warranty	Minimum 1 year comprehensive warranty from date of installation/commissioning
41	Service Support	Authorised service/support available in India
42	Annual Maintenance / Support	AMC/extended warranty quotation to be provided separately
43	Documentation	User manual, maintenance instructions, technical datasheet and software documentation



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