

TECHNICAL SPECIFICATION FOR FDM Technology (Rapid Prototyping) 3D PRINTER		
Sl. No	Description	User Specifications
1	Technology & Machine model Make	Latest Fused Deposition Modelling system with complete accessories and options for better utilization and maximum capabilities.
2	Build Volume	300 x 300 x 300mm or Higher
3	Layer Thickness	0.1 to 0.4 mm with suitable steps or better
4	Accuracy on printed part	Parts are produced with an accuracy of 0.2 mm or less
5	Kindly mention the Material Option which can be used for machine	Material like ABS, PC, PLA, TPU, Nylon, Rubber, PETG etc. Provide list of material option available
6	Kindly mention the Software name and source and license type	The required software in latest version to be supplied and the entire software license must be perpetual.
7	Provide the list of Consumables	Provide list of Material, build platforms, tips etc
8	Support structure	Soluble / Breakaway
9	Printing Envelope	Completely closed print envelope & Heated bead
10	Work Station along with suitable OS and latest software	Suitable for requirement of the system to be quoted by the bidder along with OS and latest software.
11	UPS	As per the requirement to be mentioned and quoted by the bidder
12	Support removing system	As per the requirement to be supplied by the bidder
13	Network communication type	USB, SD card, - kindly specify
14	Regulatory compliance	CE,TUV listed
15	Any other accessories/Options if available for better utilization	Bidder to specify and quote
16	Scope of supply	Attach list for scope of supply
17	Materials Supplied for First time	Kindly specify the materials which will be supplied along with the machine
18	Installation & Training	Basic Training for 1 week and afterwards Advanced training should be provided for 1 week
		Also the required operation, maintenance and other reference manuals should be provided for getting quality output and longer trouble free life of machine.
19	Technical support and Service	Availability of technical support in the area of application and service both within the country. The tenderer shall have local service and application office and infrastructure to attend by visit within 48 hours of need.

19	Manufacturer's credential	Should have sizable installations of same model worldwide and at least three same or similar model in India.
20	Warranty and guarantee	Mention the Standard onsite warranty along with the machine from the date of acceptance. During the warranty period, all the defective parts should be replaced free of cost (including part, labor and shipment cost).The service should cover the manufacturing and workman ship defects.
		Software upgrades if any should be supplied free of cost during warranty period
		Additional Comprehensive AMC for 24 months to be quoted separately
21	Raw Material	To be quoted separately for 2 kg - ABS,PLA, PC,Nylon, Flexible rubber
22	Filament Diameter	Kindly specify
23	Print monitor technology	Specify by the bidder
24	Print Head Nozzle	Dual head only required
25	Nozzle Max Temperatue	Kindly specify
26	Z mechanism & Nozzle driven technology	Kindly specify