## TECHNICAL SPECIFICATIONS OF CONTINOUS COMPOSITE 3D PRINTER

	The quoted printer should combine the benefits of continuous fiber reinforcement for
Description	parts as strong as metal with high quality surface finish.
Printing Technology	FFF or FDM with Continuous Filament Fabrication Technology
Build Volume	The build volume shall be in the range of 320 – 350 mm x 130 – 150 mm x 150 – 160 mm
	or bigger in XYZ
	Should support High performance material like
	Nylon with chopped carbon fiber
Materials	• Nylon, PLA (Poly Lactic acid) , TPU (Rubber based material) etc
	· Fiberglass
	· Carbon Fiber
	· Kevlar
	High-Strength High-Temperature Material for application requiring higher
	temperature with HDT approx. 150 deg. C. or more
	Material properties datasheet of all the materials as per international to be provided.
	Material should be chemically resistant.
Z Layer Resolution	100 -200 micron or lower
Bed Levelling	Semi-Automatic / Automatic
Printer Connectivity	WiFi, Ethernet, USB Flash Drive
	Industry 4 compliant
Software Features	Organization Admin Portal
	• Supported OS Mac OS 10.7 Lion +, Win 7+, Linux2.
	Auto queuing of slicing and printing
	• Fibre laying: Isotropic layer fully programmable for lay-up angle.
	<ul> <li>Should have option of pausing &amp; placing insets while printing.</li> </ul>
	<ul> <li>Option of laying concentric fibre reinforcement on parts at different geometry &amp; locations</li> </ul>
Software Delivery	SaaS deployment and storage capability
Print Quality Control	The print head should always be capable to adjust its home position after certain layers
Features	and if an error is detected user should be alerted and can choose to cancel the print
	remotely, saving time and material.
Fiber material	Along with the 3D printer 150cc Carbon Fiber CFF Spool – 1 No, 150cc HSHT Fiberglass
	CFF Spool – 1 No should be delivered.
Certification	Printer should be CE certified
Warranty	1 year Comprehensive including Spares for Wear & Tear of the parts.
System	Suitable System of latest configuration to be supplied
Training	1 week onsite

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