



Dr. Jivraj Mehta Institute of Technology, Anand, Gujarat.

(Approved by AICTE, New delhi and Affiliated to GTU, Ahmedabad)

Managed by : Charuttar Education & Navrachana Trust, Anand.

Ref. No: DJMIT/GUJCOST/2021/06

Date: 16/07/2021

NOTICE INVITING QUOTATION

Sealed quotations are invited from reputed & established manufacturers or authorized dealers for **3D Printer** worth up to Rs. 1,50,000/- (Rupees One Lac Fifty Thousand) for the GUJCOST sponsored R&D Project titled “**Development of wearable hand-sanitizer dispensing wristband using 3D-printing technology**” under Mechanical Engineering Department, Dr. Jivraj Mehta Institute of Technology, Mogar. Quotations must be prepared in favour of “**The Principal, Dr. Jivraj Mehta Institute of Technology, Mogar**”.

Following are the recommended specification for 3D printer:

Sr. No.	Desired Specifications	Details
1.	TECHNICAL SPECIFICATIONS	
	• Technology:	Fused Deposition Modelling (FDM)
	• Print Head:	Removable, Exchangeable
	• Control Display:	LCD Touch Screen
	• Min. Build Envelop:	150 mm x 150 mm x 150 mm
	• Filament Diameter:	1 mm - 2 mm
	• Layer Resolution:	0.05 mm - 0.5 mm
	• XYZ Accuracy:	10, 10, 10 microns
	• Movement Speed:	Up to 150 mm/s
	• No. of Extruder:	1 - 2
	• Extrusion Speed:	Up to 5 mm ³ /s
	• Build Plate:	4 mm - 6 mm
	• Supported Materials:	PLA / ABS / PETG / TPU etc.
	• Nozzle Diameter:	0.2 mm to 1 mm
	• Nozzle Temperature:	Up to 300 °C
	• Platform Temperature:	Up to 150 °C
	• Nozzle heat up time:	40s - 60s
	• Max. Operating Sound:	Up to 50 dB
	• Connectivity:	USB / SD Card / Ethernet / WiFi / Cloud etc.



Dr. Jivraj Mehta Institute of Technology, Anand, Gujarat.

(Approved by AICTE, New delhi and Affiliated to GTU, Ahmedabad)
Managed by : Charuttar Education & Navrachana Trust, Anand.

2.	SOFTWARE SPECIFICATIONS	
	• Software:	Open Source like Ultimaker Cura, TinkerCAD, Netfabb, BUILDBee, etc.
	• Browser Supported:	Safari, Chrome, Edge, Firefox etc.
	• File Types:	STL, G-Code
3.	OTHER SPECIFICATIONS	
	• Physical Dimensions	
	✓ Dimensions:	320 x 320 x 400
	✓ Weight:	UP to 50 kg
	• Power	
	✓ Power Supply:	50 w - 100 w
	✓ Input:	100 v - 240 v
	✓ Output voltage:	10 - 25 VDC
	✓ Output current:	2 - 6 A
	• Ambient Conditions	
	✓ Operating temperature:	0-50 degrees
	✓ Material Storage:	0-50 degrees
	✓ Warranty	At least 1 Year

Quotations should reach the undersigned latest by **July 31, 2021**.

Manish Mehta

Dr. Manish Mehta
PI, GUJCOST Sponsored Project
Department of Mechanical Engineering,
Dr. Jivraj Mehta Institute of Technology,
Mogar, Anand - 388340