

**FOUNDATION FOR INNOVAION AND TECHNOLOGY TRANSFER  
(FITT)**

Ref: FT/Equip-R&I/2022

Date: 18-03-2022

**Notice Inviting Quotation:  
For BCN3D W50 FDM Based Dual Extruder 3D Printer**

Sno	Feature	EPSILON W50	Description
1	Technology	FFF-Fused Filament Fabrication	
2	Bed Size	420mm x 300mm x 400mm (16.5" x 11.8" x 15.8")	
3	Extruder	<b>Independent Dual Extrusion</b> (w/ Print Modes - Single, Mirror, Duplication, Soluble Support, Multi-Material Mode)	IDEX - (Print Modes -Single, Mirror, Duplication, Soluble Support , Multi-Material Mode).
4	Extruder Systems	2	<b>Extruder Bondtech™</b> high-tech dual drive gears, Hot-ends optimized and manufactured by e3D™ The printer should have separate Hotend and Extruder Units for easy maintenance.
5	Dehumidifier Unit	Yes	<b>Dehumidifier Unit</b> for Filament Storage and Feeding. Chamber is maintained at regularized Temperation to avoid Moisture. - Storage Capacity 4 to 8 Filament spools i.e., 750gms-2.5kgs. - Power-backup capability
6	Open Filament	Yes	.
7	Filament Diameter	<b>2.85 ± 0.05 mm</b>	
8	Build Chamber	<b>Passive Heated Chamber, Fully enclosed, Safety Pause</b>	
9	Build Chamber Temperatures	60 °C	Depends upon operating temperature
10	Safety	Yes - mandatory	Category H13 HEPA Filter, Active Carbon Filter
11	Safety Stop / Pause	Yes	
12	Resolution	0.04mm	With 0.4mm Nozzle (For Better flow refer Material Parameters)
13	Nozzle Diameter	0.4mm Brass Coated (for Thermoplastic Filaments) 0.4mm Steel Coated (for Metal Filaments)	Optional Availability for Thermoplastics - 0.5mm, 0.6mm, 0.8mm,1.0mm Composites - 0.6mm Hotend X

14	XYZ Resolution	1,25µm/1,25µm/1µm	
15	Filament Runout Sensor	Yes	Pauses the machine at filament runout, pushes the leftout filament out of Extruder, User can load the filament and resume printing.
16	Calibration	Automatic	
17	Print Speed	25-150 mm/s	
18	Heated Bed	Silicon Thermal Pad	
19	Heated Bed Temperature	120 °C	
20	Hotend/ Extruder/ Nozzle Temperature	300 °C	Standard Material - Upto 260°C Metal Filaments - Upto 250°C
21	Operating Temperature	15 °C - 30 °C	
22	Operating Sound	49db	
23	Screen	5" - Touch Screen	Full Colour Capacitive Touch Screen
24	Material Compatibility	Standard, Technical, Composites, Metal	<b>Standard</b> - (PLA, TOUGH-PLA, PET-G, TPU, PVA, BVOH) <b>Technical</b> - (ABS, PP, PA, ASA, PLA Pro1, ABS Fusion) <b>Composites</b> - (PA HTCF15 , PET CF15, PP GF30) <b>Metal</b> - (Ultrafuse 316L, Ultrafuse 17PH)
25	Power Input	840W	AC 100-240V, AC 8.4-3.5A, 50-60Hz
26	Software	Yes	STRATOS
27	Operating System	MAC, WINDOWS, LINUX	
28	Supported Files	STL, 3MF, OBJ, AMF	
29	Wireless Connectivity	BCN3D CLOUD	
30	Weight	37kg (81.6 lb)	
34	Camera	N/A	Option to control/monitor printing via Cloud or Mobile Application
35	Connectivity	Yes	Offline Printing - SD Card Online Printing - WiFi OR Ethernet (BCN3D Cloud)
36	Certification	Yes	CE / FCC
37	Warranty	1 Year	
38	AMC	After Warranty Period	<= 5% of product cost
39	Delivery	FOR Destination	
40	Training	On Site Product Demo & Training	
41	Software	3D printer slicing & management software	with no additional charges

## **Terms & Conditions Details**

**Preparation of Bids:** The offer/bid should be submitted in two bid systems (i.e.) Technical bid and financial bid. The technical bid should consist of all technical details along with commercial terms and conditions. Financial bid should indicate item wise price for the items mentioned in the technical bid

**Opening of the tender:** The bid will be opened by a committee duly constituted for this purpose. The technical bid will be opened first and it will be examined by a technical committee (as per specification and requirement). The financial offer/bid will be opened only for the offer/bid which technically meets all requirements as per the specification.

**Acceptance/ Rejection of bids:** The Committee reserves the right to reject any or all offers without assigning any reason.

**Two separate sealed envelopes to be submitted for technical and financial bid (clearly labelled as “technical bid” and “financial bid”) respectively.**

**Last date of submitting the bids will be 28<sup>th</sup> March, 2022 before 5:00 pm to :**

The quote should reach the following address on or before last date.

FOUNDATION FOR INNOVATION AND TECHNOLOGY TRANSFER  
FIRST FLOOR  
INDIAN INSTITUTE OF TECHNOLOGY DELHI  
HAUZ KHAS, NEW DELHI-110016  
Email: [uttam.fitt@gmail.com](mailto:uttam.fitt@gmail.com)  
Ph: 011-26597164

Please quote prices for FOB New Delhi, inclusive of all taxes and duties.

Quote should be in Indian Rupees for agents of Indian manufacturers, or in foreign currency, for agents of foreign manufacturers, and needs to be valid for at least three months.

Attach all the technical literature and a list of similar installations done in India.

If the quote is being submitted by a representative of the manufacturer, a valid agency-ship or dealership certificate authorizing the agent to quote to IIT Delhi on behalf of the manufacturers should be enclosed. The principal and the vendor, both, are not allowed to quote for the same product.

Complete set of manuals for the operation of the equipment should be given.

Please specify all of your terms and conditions clearly, including delivery period.

Mode of payment for purchases in foreign currency are through irrevocable letter of credit, or through wire transfer on delivery. Only bank charges within India are payable by FITT, IIT Delhi, all bank charges outside India are the responsibility of the seller. For purchases in INR, payment is on delivery.