



## DIRECTORATE OF TECHNICAL EDUCATION AND TRAINING, ODISHA, CUTTACK

At-Killamaidan, PO-Buxibazar, Cuttack-753001

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DTET-PROC-ET-0014-2026

NotificationNo.

2903

Dated: 24.2.2026

### “EMD and Technical Bid Corrigendum”

**Name of Work:** Request for Proposal for establishment of CoE in Additive Manufacturing at Govt. ITIs of Odisha.

**e-Tender ID:** 2026\_DTET\_125001\_1

**NIT No.** DTET/2025-26/1223/01; Dated: 19.01.2026

Except the following amendments, all original RFP terms, conditions and criteria remain unchanged.

SL No.	Reference Page or Section	Existing Clause	Modified Clause
1	Section VI: Annexures Annexure I: Bid Submission Checklist Page 13	EMD Rs.30,00,000.00 (Rupees Thirty Lakhs only)	Bank Guarantee format for EMD submission attached in Annexure-1.
2	Section 4.3 ‘Terms of Joint Venture/Consortium’	Joint Venture/Consortium details:	1. OEM or Other Channel/Authorised Partner may be the Lead Bidder. 2. Maximum 3 partners are allowed (including Lead Bidder). 3. Minimum Participation Share for the partners may be revised as follows. i. Lead Member (minimum participation share – 50%) ii. Second Member (minimum participation share – 20%) iii. Third Member (minimum participation share – 20%)
3	Technical Specifications of the equipment from RFP document	As per published RFP document	1. Equipment wise changes in technical specifications are revised as per the ‘Minutes of the Pre-Bid Meeting’ and ‘Revised Technical Specifications’ published along with this ‘Corrigendum Notice’. 2. Equivalent or higher technical specifications are accepted for all the equipment mentioned in the tender.
4	FACT SHEET	Due date for submission of proposals	Due date for submission of proposals is hereby extended till 13.03.2026 by 05:00PM

(Tender Inviting Authority)

Sri. S.K. Patra

Joint Director (Procurement)

**ANNEXURE-1: Bank Guarantee Format for Earnest Money Deposit (EMD)**

To,  
Director of Technical Education and Training, Odisha  
Killa Maidan, Buxi Bazaar, Cuttack- 753001  
Phone No-0671 (2301061),  
Email: [dtetorissa@gmail.com](mailto:dtetorissa@gmail.com)

Whereas << name of the bidder >> (hereinafter called "the Bidder") has submitted the bid for submission of RFP # <<RFP Number>> dated <<insert date>> for <<name of the assignment>> (herein called "the Bid") to DTE&T Odisha

KNOW ALL MEN by these presents that we, <<name of the issuing bank>> having our office at <<Address>> (herein called "the Bank") are bound unto .....(herein called the "Purchaser") in the sum of Rs.....<<amount in figures>> (Rupees <<Amount in words>> only) for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents.

Sealed with the Common seal of the said Bank.....day of.....20....<<insert date>>

The conditions of the obligation are:

- 1. If the Bidder withdraws or amends, impairs or derogates from the Bid in any respect within the period of validity of this tender; or
- 2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of validity of bid: -
  - a. Withdraws his participation from the bid during the period of validity of bid documents; or
  - b. Fails or refuses to participate for failure to respond in the subsequent Tender process after having been short listed;
  - c. If the Bidder fails to furnish the Performance Security for the due performance of the contract.
  - d. Fails or refuses to accept/execute the contract.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or both the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force upto and including 45 days after the period of Bid validity and any demand in respect thereof should reach the Bank not later than the above date.

Our.....branch at.....\*(Name & Address of the.....\*branch) is liable to pay the guaranteed amount depending on the filing of claim and any part thereof under this Bank Guarantee only and only if you serve upon us at our.....\* branch on or before Dt.....Otherwise bank shall be discharged of all liabilities under this guarantee thereafter.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN:

- 1. Our liability under this Bank Guarantee shall not exceed Rs. <<Amount in figure>> (Rupees <<Amount in words>> only)
- 2. This Bank Guarantee shall be valid upto <<insert date>>
- 3. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bank Guarantee that we receive a valid written claim or demand for payment under this Bank Guarantee on or before <<insert date>> failing which our liability under the guarantee will automatically cease.

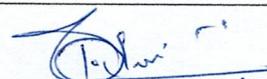
.....  
Signature of the authorized officer of the Bank)

.....  
.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Branch

**ANNEXURE-2:****Technical Specifications of LAPTOP – Required Quantity: 1 (for each COE)**

SL No.	Parameter	Specifications	Bidder's Compliance
1	Processor	intel Core i7 13 <sup>th</sup> Generation or higher	
2	RAM	Minimum 16GB DDR4 or latest, expandable upto 32GB (with one DIMM free) or Higher	
3	Memory Size	Minimum 1TB SSD (Nvme)	
4	Operating System	Windows 11 Professional 64 bit OEM	
5	Additional OS Supported	Linux	
6	Cores	Min. 8	
7	Threads	Min. 12	
8	Cache	12 MB or Higher	
9	Wireless Connectivity	IEEE 802.11 ax(Wi-Fi 6), Integrated Bluetooth 5.1 or higher	
10	DVD	Optional	
11	Screen Size	14" or more	
12	Display Technology	Anti-glare LED Backlit Display	
13	Resolution	1920X1080 or Higher	
14	Web Camera	Integrated HD Web Camera (720p or higher)	
15	Video Graphics	Integrated HD Graphics or better	
16	Sound System	Integrated Stereo Speaker	
17	Keyboard	Spill Resistant backlit keyboard with Touchpad	
18	Mouse	Optical/Laser USB OEM Make or Wireless	
19	Battery Backup	Minimum 6 Hours	
20	Weight with Battery	Less than 2 KG	
21	Ports	Minimum 4 USB ports out of which 2 port should be USB 3.0 or higher and 1 port shall be Type C port with docking support, 10/100/1000 Ethernet Card, VGA/HDMI, Microphone, Stereo Headphone, and other standard ports.	
22	Weight with Battery	Less than 2 KG	
23	<b>Certifications</b>		
23.1	Safety Standards	Safety of Electronics Products against Electrical Hazards IS 13252 (Part1):2010/IEC 60950 Part1:2005/UL Certification BIS, BEE, EPR, RoHS or any other relevant Indian Certificates.	
23.2	Certification for Electro Magnetic Interference/ Radiation under control	FCC/Equivalent certification from NABL approved Lab	
23.3	Restriction of Hazardous Substances in manufacturing	Indian WEE & India RoHS/International RoHS	
23.4	Energy Efficiency Standards	Energy Star 7.0 of higher/ equivalent BEE Star rating	
23.5	Environmental Protection Standards	EPEAT /Equivalent Indian Standard	
23.6	ISO Standard	ISO 9001	
24	Warranty	Minimum 5 Years OEM onsite comprehensive warranty.	

  
21/2/26

**Equipment list for CoE in Additive Manufacturing for each CoE**

<b>Sl No.</b>	<b>ITEM DESCRIPTION</b>	<b>QTY</b>	<b>Make &amp; Model</b>
1	3D Printer with Fused Deposition Modeling (FDM) AM Technology	2 Nos.	
2	FDM/FFF Based 3D Printer (Thermoplastic, Metal, Ceramic)	2 Nos.	
3	Sintering & Debinding Station	1 No.	
4	Fused Deposition Modeling Based Composite 3D Printer	1 No.	
5	Non-Laser Material Jetting technology 3D Printer	1 No.	
6	3D Printer with Digital Light Printing Technology (DLP)	1 No.	
7	Liquid Deposition Modeling (LDM) Clay 3D Printer	1 No.	
8	Multifunctional Fix and handheld 3D Scanner	1 No.	
9	3D Modeling Software (Perpetual License) & Laptop Workstation – 1 No	Perpetual License for 30 User	
10	Desktop Workstation with Chairs	10 Sets	
11	Interactive Touch Panel Board	1 No.	
12	Tables with storage cabinet for desktop workstation and 3D Printers	15 Sets	
13	Storage Almirah (minimum 2 doors)	2 Nos.	
14	20 KVA Online UPS with 60 min Backup	1 No.	
15	Dehumidifier with coverage area 6500 cubic feet	1 No.	
16	Laptop	1 No.	

<b>1. Item Name: FFF Technology 3D Printer ( 2 Nos).</b>		
<b>Parameter</b>	<b>Specification</b>	<b>Complied (Y/N)</b>
Technology:	Fused Filament Fabrication (FFF)	
Capability	Machine should be capable producing strong functional parts in engineering grade thermoplastics for various applications like functional prototyping, Tooling for Forming/ Casting applications, end use parts etc.	
Build Volume (W × D × H):	Minimum: 250x250x250 mm & Maximum: 300X300X300	
Electrical	Power Supply Input: 100-240 V AC, 50/ 60 Hz 230 V @ 2 A Power Supply Output: 24 V DC, 350 W	
Bed Temperature	120 °C Maximum	
Layer Thickness	Approx. 0.1 mm to 1 mm	
Accuracy:	100 to 400 microns or better	
Software:	Slicing and Control Software: Software supplied must be from the same OEM and should be compatible with Windows 8 or higher version.	
	Software should support file types such as G -code, STL/OBJ/3MF/STP/IGS CAD package etc.	
	Software shall have options for user to edit the internal structure of each layer and/or group of layers of the CAD model.	
	Software shall be able to generate different internal customizable build styles (honeycomb to solid) along various regions/segment of the part along the same cross section.	
	Software shall have ability to pre-program pauses on any layer of the generated slice file to add metal inserts, change color of filament.	
	Software should have preset libraries of standard metal inserts and should auto change circular faces to match the diameter of the inserts as selected by the users.	
	The software should allow the user to create parts with optimal infill to vary between strength and rigidity. The user should be able to select a body or a face of any feature of a subassembly to vary between strength and rigidity.	
	Life time free update for the software	
Display Screen	Touch Screen, 7 inch or more	
Connectivity	Wi-Fi, LAN, USB Port	
Structure	Powder coated with internal LED	
Leveling	Mesh-levelling with Flatness Detection	
Print Technology	Fused Deposition Modeling (FDM)	
Print Head System	Dual Extruder System (Dual extruder system with one nozzle for main material and one for support creation).	
Filament Diameter	1.75 mm	
Print Head Travel Speed	Should be changeable up to 60 mm/s	
Build Plate	Flexible for ease of removal	
Chamber Temperature	Should be able to reach up to maximum 110 Degree Celsius	

Build Plate Levelling	The printer should be capable to do Auto Probing for Bed levelling	
Supported Materials	Should support Materials like: ABS, ASA, PLA,TPU, Water Soluble Support Material, ABS Based Carbon composite material etc.	
Nozzles	Dual Wear Resistance Nozzles	
Nozzle Diameter	The Parameters should be pre fed in the slicing software & should not need to change nozzle to print different layer height. Standard nozzle diameter size should be 0.4mm only.	
Max Nozzle Temperature	The nozzle should reach up to 300 Degree Temperature	
Noise Emission (Acoustic)	The printer should be available with < 50 dB (A) when building	
Operating Ambient Temperature	The printer should be able to perform at 15-30 Degree Room temperature and 10-90% relative humidity non-condensing	
Part accuracy	Parts are produced within an accuracy of +/- .020 mm or +/- .002 mm/mm, whichever is greater.	
Machine Calibration	The machine shall automatically calibrate nozzle and build platform in X, Y and Z axis before the start of each job.	
	Auto-calibration	
Monitoring	Live camera for tracking and monitoring	
Certification	Product should be BIS, WPC, CE, EU, ROHS certified. Certificates to be provided.	
	ISO 9001: The bidder or the OEM of the offered product must have ISO 9001 Certification.	
Warranty	5 Years comprehensive for all the supplied items	
Operational and Facility Requirements	Machine compatible of working in office/lab environments setup. The system should be non-laser based and not emit the hazardous radiation.	
	Noise level of the machine at any point (idle/operational) should be less than 46dbA. Relevant documentation/test results to be provided.	
	Contaminants released during the operation of the machine should not be greater than 3ppm at any point of operation. Relevant documentation/test results to be provided.	
	Vendors must also indicate the requirements of other mandatory facility requirements like vibration free flooring, anti – static environment etc.	
Supported 3D CAD Files Types	STL/OBJ/3MF/STP/IGS/CAD formats from Designing Software	
<b>Other Features</b>		
IoT Features: Remote dashboard and live camera feed. (When displayed on larger screen, students can better understand parameters and see live printing)		
Self-cleaning nozzle: (Improves the quality of printing)		
Inbuilt material storage.		
Smart filament sensor: Clogging and Material run out indication.		

Humidity and Temperature monitored filament dispenser.	
<b>Accessories &amp; consumables to be supplied</b>	
1. Other standard accessories as mentioned below shall be provided	
a) Udisk (32 Gb) -(2 Nos)	
b) USB Cable – (1 No)	
c) Power Cable - (1 No)	
d) Spool Holder – (1 No)	
<b>Materials To Be Provided</b>	
Total 5 KG of Build Material of different type supported by the machine along with Soluble support materials to be provided along with the printer.	
Support Removable Cleaning Station To Be Supplied	

<b>2. Item Name: FDM Technology 3D Printer (2 Nos).</b>		
<b>Parameter</b>	<b>Specification</b>	<b>Complied (Y/N)</b>
Technology:	Fused Deposition Modeling (FDM)	
	Latest Fused Filament Fabrication system with complete accessories and options for better utilization and maximum capabilities.	
Build Volume	300x300x500 mm (X,Y,Z) or more	
Filament Diameter	1.75mm or better	
Nozzle Sizes	0.3/0.4/0.5/0.6/0.8mm/Brass/Hardened Steel	
Layer Height	0.08mm to 0.2mm (for 0.4mm Nozzle) varies based on Nozzle size	
Build Plate	Hardened Aluminum heated bed with Magnetic PEI sheet	
Heated Bed Max Temp	120 Degree C	
Extruder Nozzle Temperature	Should Be 420 Degree C or Better	
Extruder & Hot End	Dual Direct Drive All Metal Extruder	
Heated Chamber	Controlled heated environment up 60 Degree C	
Special Printing Capability	Quoted 3D Printer Should be capable of Printing with pallets of dia 2-6 mm	
X/Y Positional Accuracy	5 Microns or better	
Z Positional Accuracy	2 Microns or better	
Print Head Travel Speed	30mm/s to 250mm/s	
Casing	Aluminum	
Processor	32-bit ARM Cortex-M4	
Screen	7 Inch full view color Display Touch Screen	
Software	1. Slicing Software - Simplify 3D/ Cura	
	2. Input File Format - STL/OBJ/3MF	
	3. Operating Software - Windows, Mac, Linux	
	4. Output File Format - G code	
Materials	<b>STD Polymers:</b> PLA, ABS, PETG, Wood Fill, TPU, TPE, PC, Nylon	

	<b>ENGG Polymers:</b> ASA, Carbon Fibre Infused, Glass Fibre Infused, ULTEM,PEEK, PP, PC-ABS, Nylon Composites	
	<b>Support Polymers:</b> HIPS, PVA, Aquateck PVA, Thermax HTS High Temp	
	<b>Ceramic:</b> White Zirconia, Black Zirconia, Alumina, Silicon Carbide	
	<b>Metal:</b> SS-17-4, SS-316-L, Copper, Bronze, Inconel 718, H13	
<b>FEATURES</b>		
Ceramic & Metal Printing	Quoted Printer Should be capable of Printing Special materials like Metals & Ceramic with Further Upgradation of Supported Equipment.	
Automatic Bed Leveling	BL-Touch Z Probe Auto leveling	
Resume Printing	After sudden power loss, resume printing capability	
Automatic Shutdown	Printer shuts down after completion of printing job	
Wifi	Yes	
Material detection	Material runout sensor for both extruder	
Run time parameter	Printing parameter can be change during printing.	
Z-Axis Microstepping	Z-axis microtuning during the printing	
Fully Enclosed Body	Powder Coated Aluminum Body	
Heated chamber	Controlled Heated Chamber	
HEPA Filter	Activated HEPA filter with exhaust fan for harmful fumes reduction.	
Idle Shutdown	If printer is idle for 30 min the printer will automatically shutdown.	
Materials To Be Provided Along with the Printer	2KG ABS,2KG PLA, 2KG TPU, 2KG NYLON, 2KG PETG	
Warranty	5 Years comprehensive for all the supplied items	
Special Feature	Printer Should have IOT enabled System.	

<b>3. Item Name: Sintering &amp;Debinding Station (1 Nos)</b>		
<b>Parameter</b>	<b>Specification</b>	<b>Complied (Y/N)</b>
Applications	Heating at High Temperature, Controlled Atmosphere Annealing, Normalizing, Stress Reliving, Tempering, Sintering.	
Working Temp/Operating Temp (°C)	1600 °C	
Design Temp °C	1650 °C	
Hot Zone Size (mm)	ID: 100, Length: 200-300	
Power	5 kW-6kW, 220 -240 Volts, 50 Hz	
Work Tube Type	99.5% Alumina Tube, OD: 110mm, ID: 100mm, Length: 1000-1200 mm.	
SS Flange for Gas Purging +	SS Flange with KF-25 Vacuum port and ball	

Vacuum with support brackets.	valves, pressure gauge for gas purging applications	
Safety Features	Over Temperature	
Avg. Rate of Heating	$\leq 3$ °C/Min	
Heater	MoSi2 rated for 1800 °C	
Control Panel	Programmable Controller, PID profile control	
Safety Features	Over Current	
Process Control Instrumentation	Rotameter for Argon Gas (0-500 LPH) or ( 0-.5LPM)	
Spares	Sample Push Pull Rod	
Tank Size (mm)	Minimum 300x240x150	
Outer Size (mm)	Minimum 325x276x260	
Tank & Enclosure Material	SS 304 Grade	
Tank Capacity	10 Litre	
Heater Power	200 Watts	
Timer Digital	0 to 99 Min	
Power Input	230V AC	
Temperature	Amb. - 60°C	
Accessories	Lid, Basket, Drain Valve (MSUS onwards), Power Cord, User Friendly Operation Manual and related all accessories for five years.	
Required setup	Vendor must quote all required accessories like gas cylinder, pressure reducer and mounting accessories, pipes etc. along with systems.	
Evaluation	All systems like 3D Printer, Sintering and Binder extraction must be capable of printing varied kinds of polymer, Ceramics and Metal materials. This final output for both Metal & Ceramics components must achieve their fully densified, end use forms.	
Technical assistant	Vender must provide technical assistance to operate the machine	
Warranty	Warranty will be Five years	
Installation/Onsite advance design and hands on training	Onsite advanced design and hands on training is required after installation. Training would involve generation of STL files and their usage during printing of the items for the 7 to 10 days.	

**4. Item Name: Composite 3D Printer (1 Nos)**

Parameter	Specification	Complied (Y/N)
Technology	Non-Laser Thermoplastic Material Extrusion technology for 3D printing of part from 3D CAD model.	
Capability	Machine should be capable producing strong functional parts in engineering grade thermoplastics & composite materials for various applications like functional prototyping, Tooling for Forming/ Casting applications, end use parts etc.	
Material varieties to be Supported	The printer should be able to build in engineering grade thermoplastics & composite materials with properties as listed below.	
	The parameters such as Nozzle Temperature, Chamber Temperature, Extrusion Rates etc should be pre-fed into the machine and slicing software and the machine should be able to print any geometry without the user having to tweak/adjust the parameters.	
	The data sheets with the mechanical, thermal and electrical properties along and across the axis of orientation with ASTM /DIN test methods from reputed test labs should be provided for the materials offered. The datasheets should contain results from test parts build on the same or similar system from the same OEM.	
	General Purpose Prototyping Material such as ABS and ASA.	
	Composite material such as ABS with Carbon Fibre & Nylon with Carbon Fibre.	
	Elastomeric Material: Thermoplastic polyurethane (TPU) Based.	
	Shore A value (ASTM D2240 standard): 85 -95	
	Tensile Strength (ASTM D412 Standard): 16.5 MPa or better	
	Vicat Softening Temperature (Rate B/50) (ASTM D1525 Standard): 90C or better.	
	Elongation at Break: 450% or Higher.	
Support Material	The machine should be capable to build parts in at least 5 materials with Rigid Soluble support filament to be able to print trapped geometries and hidden overhangs and for hands free support removal. The support material should be rigid in nature. The printer should be able to print with the same support material for all the 5 materials (ABS, ABS-CF, ASA, Nylon-CF, and TPU) and should dissolve using the same support removal equipment and solvent/chemical.	
Operation and Process Control	Machine should build parts in Baffled oven type heated chamber with Uniform Temperature control. The oven should have two or more independent air heaters to create a uniform air heated build environment throughout the volume of the build	

	The support material distinct material which should extrude from a different printhead/nozzle. All supports must use to the same equipment for cleaning and should be able to dissolve in the same chemical/solution using the same support cleaning equipment.	
	The machine shall automatically calibrate build platform in X, Y and Z axis before the start of each job.	
	Machine should have provision for automatic and manual calibration of offset between model and support nozzle.	
	The model and support print head should respectively toggle according to the build process and should have a self-cleaning mechanism for the extruding nozzles.	
Build Volume	Minimum 300* 250 * 300 mm	
Layer Thickness	Minimum Horizontal build layer thickness as fine as 0.13 mm for ABS/ ASA with higher layer thickness options.	
Bed Size Consistency	The build volume should remain constant for all available layer thickness options.	
Accuracy	Parts produced should be within an accuracy of +/- 0.2 mm or +/- .002 mm (whichever is better)	
Slicing and Control Software	Software supplied must be from the same OEM and should be compatible with Windows 10 or higher version. Use of 3rd Party software is not accepted	
	Software should be able to import most of the native CAD formats like igs, vrml. stp, Parasolid, native files of CAD packages etc and be able to repair errors like open surfaces, inverted normal etc without use of any 3rd party software.	
	Software shall be able to generate different internal customizable build styles (honeycomb to solid) along various regions/segment of the part along the same cross section. Software should also allow user to edit the internal structure of each layer and/or group of layers of the CAD model.	
	Software shall allow user to import assembly CAD files and change interior fill of each component of the assembly individually	
	Software shall allow the user to balance between strength and rigidity by selection of the entire body or any face of the CAD and vary its thickness with respect to the overall infill of the part	
	Software should contain a library of standard metal inserts and allow the user to modify the geometry of the part feature to accommodate for press fit/heat fit inserts.	
	Software shall allow user to modify the geometry to change support requiring overhangs to self-supporting angles that require no support material to enable Design for Additive Manufacturing	

	Software should be able to provide real time part build status update besides indicating build time and material consumption of the part.	
	Software allows the user to add various jobs to a queue for sequencing and job management.	
	Software shall have ability to pre-program pauses on any layer of the generated slice file to add metal inserts, change colour of filament.	
	Software should allow user to add manufacturing notes to sub-assembly, body or any face of the CAD model(s) imported	
	Software should generate reports of printer history, jobs printed, failures, material consumption etc	
Operational and Facility Requirements	Machine compatible of working in office/lab environments setup. The system should be non-laser based and not emit the hazardous radiation.	
	Noise level of the machine at any point (idle/operational) should be less than 46dbA. Relevant documentation/test results to be provided.	
Material Handling	Material handling systems should be part of the Printer with automatic material loading, feeding and storage management system. All material spool/cartridges (model and support) should have an EEPROM/chip to indicate the quantity of material available in the spool / cartridge at any instance of the machine operation during idle or run time.	
	For large jobs. The machine automatically should use the backup material and resume printing in case of the material (for both model and support) gets consumed during the build process. The machine should keep the chamber temperature and heated airflow constant while the machine is paused.	
Connectivity and File Transfer	10/100 base T connection. Ethernet protocol, USB and Wi-Fi	
Monitoring	Machine should house an inbuilt camera to monitor the print, there should be a provision to access the camera through machine software and on mobile phone	
Workstation Compatibility	Windows 10 or higher version.	
Display Feature	Machine should be capable to display the material availability in the cartridge always. Display of the machine should indicate chambertemperature andprint head/nozzle temperature of the machine always.	
Part building	Part should be built on base plate without any need of external adhesive to avoid warpage.	
Regulatory Compliance	CE (low-voltage and EMC directive), FCC, EAC, cTUVus, FCC, KC, RoHs, WEEE, Reach, RCM	
Safety	Operations of machine should be in closed chamber with necessary with double wall doors. Chamber door must auto lock during machine operations.	

Manufacturer and Bidder Credentials	Manufacturer of the supplied equipment must be ISO Certified. Copy of Certificate to be attached. The manufacturer of the quoted equipment should be in existence and should have supplied same similar machine in India for a period of minimum of 5 years and globally for a period of 10 years or more.	
	The bidder must have supplied machines at other Institutes in the past (a satisfactory performance certificate from those users may be solicited if needed).	
	Bidder should attach authorization letter to bid for the tender from OEM of the quoted system.	
Cybersecurity /Industrial Security Appliance	Printer should have IPV6 Support; the capability to protect the IP, Unauthorized access and defending the printer from cyber security attacks.	
Technical assistant	Vender must provide technical assistant to run the machine	
Warranty	Warranty will be Five years	
Accessories with materials	Related Accessories should be provided throughout the warranty Period	
Installation/Onsite advance design and hands on training for a week	Onsite advanced design and hands on training for a week after installation. Training would involve generation of STL files and their usage during printing of the items for the 7 to 10 days	

**5. Item Name: Non-Laser Material Jetting technology 3D Printer (1 Nos).**

Parameter	Specification	Complied (Y/N)
Technology:	Non-Laser Material Jetting technology for 3D printing of part from 3D CAD model using a photopolymer liquid material. With Monochrome Printing System.	
Applications	Functional Modeling	
	Visual Modeling	
	Concept Modeling	
Build Volume	Print Tray area with up to 1,174cm <sup>2</sup> (182 in <sup>2</sup> ) Print Height: 158mm (6.22 in.)	
	Maximum model height: 155 mm (6.1 in.)	
Layer Thickness	High Quality Speed (HQS) print mode at 18.75 microns (0.0007 in.)	
Accuracy	Parts produced should be within an accuracy of $\pm 0.2\%$ of part length in mm or whichever is better.	
Capability	Machine should be able to print parts with 3 materials separately, as an assembly or in a mixed material option where you can achieve different mechanical properties & variable shore hardness in a single tray. It should meet office environment standards with small footprint and is odor free.	
Material varieties to be Supported	The printer should support photopolymer resins including simulate clear, flexible and rigid materials including abilities to print with the combination of Rubber-like shore, High Impact , Rigid opaque and Translucent and transparent material.	

	These materials can be printed simultaneously to achieve digital material compound parts, assembly parts, 3x single material parts and all together on the same tray.	
Pre fed Parameters	The parameters such as Nozzle Temperature, Chamber Temperature, and mixing etc should be pre-fed into the machine and slicing software. The printer/software should auto adjust all necessary parameters according to geometry and orientation. And the machine should be able to print any geometry without the user having to input/adjust the parameters.	
Support Material	The machine should be capable of water jet removable support as well as water soluble support to make post processing simple and enables the creation of complex parts without compromising accuracy or detail that dissolves in water. Water soluble support removal should be easy and hands free using a dishwasher or still water.	
Build Volume	Print Tray area with up to 1,174cm <sup>2</sup> (182 in <sup>2</sup> ) Print Height: 158mm (6.22 in.)	
	Maximum model height: 155 mm (6.1 in.)	
Layer Thickness	High Quality Speed (HQS) print mode at 18.75 microns (0.0007 in.)	
Accuracy	Parts produced should be within an accuracy of $\pm 0.2\%$ of part length in mm or whichever is better.	
Slicing and Control Software	Software supplied must be from the same OEM and should be compatible with Windows 10 or higher version. Use of 3rd Party software is not accepted.	
	<b>Software should be able to import any native CAD formats like igs, vrml, stp, parasolid, native files of CAD packages etc and be able to repair errors like open surfaces, inverted normal, etc. without use of any 3rd party software.</b>	
	Software shall be able to generate different customizable surface finish styles such as Glossy and Matte.	
	<b>Software allows users to import their designs using native CAD files or 3MF file formats.</b>	
	Software should be able to provide real time part build status update besides indicating build time and material consumption of the part.	
	Software allows the user to add various jobs to a queue for sequencing and job management.	
	Software should allow user to add manufacturing notes to sub-assembly, body or any face of the CAD model(s) imported.	
	Software should generate reports of printer history, jobs printed, failures, maintenance, materials consumption etc.	
Operational and Facility Requirements	Machine should be table top and compatible of working in office/lab environments setup. The system should be able to perform operation silently with minimal moving parts. It should effectively captures fumes generated during the printing process and returns ultra-clean, filtered air to the operator's breathing zone. It should only use model material for part printing. For any overhangs or supports it should always use support material.	

Material Handling	Material handling systems should be part of the Printer with automatic material loading, feeding and storage management system. <b>All material canisters (model and support) should have feature to indicate the quantity of material available in the canister at any instance of the machine operation during idle or run time.</b>	
	Machine should contain separate position each for model and support material. The machine should automatically show material status if insufficient for the loaded part at the start of the job itself.	
	Resin Material should be available in leak proof cartridges which can be directly inserted in the printer without having the need to expose the resin. Machine should auto-detect material type and remaining quantity.	
	In case any specific print job requires extra material for the same print, Hot -swap should be available for atleast 1 material.	
Connectivity and File Transfer	Ethernet protocol, USB and Wifi. User should have option of starting/ monitoring/pausing the job remotely.	
Display Feature	Machine should be capable to display the material availability in the canisters always. Display of the machine should indicate necessary parameters and screen should be of touch type with minimum 6.5 inches size.	
Regulatory Compliance	CE, FCC, EAC, cTUVus, CB, RCM	
Safety	Operations of machine should be in closed chamber with necessary safety measures.	
Warranty	At least 5 year comprehensive on-site warranty on complete set of equipment from the date of successful installation.	
	(1.) Total 15 KG of all supported material including the support material to be provided along with printer.	
Material Supply	(2.) Supplier will have to supply support removable cleaning station along with the printer. Support must be removed by water pressure	
Support Cleaning Station	Water Jet System for part Cleaning will have to supply.	

<b>6. Item Name: Digital Light Processing Technology (DLP) 3D Printer (1Nos).</b>		
<b>Parameter</b>	<b>Specification</b>	<b>Complied (Y/N)</b>
Technology	Digital Light Printing (DLP)	
Build volume (W × D × H)	Minimum: 300 × 150 × 300 mm Maximum: 350 × 300 × 400 mm	
XY resolution (Pixel Size)	2560 × 1440 or better	
Print speed	30 - 70 mm/h	
Layer Thickness	10 – 200µm	
Layer Height	50-100 micron or better	
Control Panel	Touch Screen 5 inches or more	
Resin Management	Auto Resin Feeding, Resin Level Detection, Resin Confirmation	

Supported Resins	Standard Resins, ABS Like, Water Washable, Castable, Aqua 4K resin, Rigid Resin, Engineering Grade Resin, Functional Part Grade Resin, Clear Resin, Elastic Resin etc. Resin Should be open Source.	
Software and Network Connectivity Network Slicing Software Remote Management Software Supported File Types Supported OS	Wi-Fi, LAN, USB port × 2, Wireless 802.11 b/g/n (Features: Antialiasing; Auto Support; Auto Orientation; Auto Cross Section Analysis; Contour Compensation; Suction Cup Detection; Hollow; Drainage Hole; Texture Generation; Smaller G code Size) Raise Cloud STL/ OBJ/ 3MF etc	
Material	Minimum 10 KG Of Different Resin based Material	
Warranty	5 Years comprehensive for all the supplied items	
Post Processing Station	UV Curing Chamber & IPA Wash Station to be supplied.	

<b>7. Item Name: Clay 3D Printer (1 Nos)</b>		
<b>Parameter</b>	<b>Specification</b>	<b>Complied (Y/N)</b>
Print Technology	Liquid Deposition Modelling (LDM)	
Build Volume	∅ 200 mm x 400 mm	
Nozzle Diameter	1.5 mm \2 mm \3 mm	
Layer Height	from 0.5 mm to 2 mm varies based on Nozzle size	
Build Plate	Phenolic Plywood Printing Plate	
Travel Speeds	Maximum till 150 mm/sec	
Extruder Type	Screw extruder which features a stainless -s teel extrusion screw that enables printing with retractions.	
Mechanical System	Delta	
Accuracy	Capable to print a file starting from a precise height of the model to be printed, height previously selected	
Printing Speed	Up to 150 mm/sec	
Materials	Earthenware, Porcelain, Stoneware, Refractory, Clays	
Enclosure	Made out of Aluminium	
Screen	7 Inch Full View Color Display Touch Screen	
Software	1. Slicing Software - Simplify 3D/ Cura 2. Input File Format - STL/OBJ/3MF 3. Operating Software - Windows, Mac, Linux 4. Output File Format - G code	
Resume Printing	A system which allows users to save their print job and resume it in the case of power failure.	
Network connectivity	Enables remote use via LAN or with USB stick.	
Run time parameter	Printing parameter can be change during printing.	
Fully Enclosed Body	Powder Coated Aluminium Body	

Powder Coated Aluminium Body	G code Controlled Heated Chamber	
Monitoring	Camera On Board	
Power Voltage Input	220 -2 40VAC, 50Hz	
Power Wattage	Max 300W	
Power requirements	Universal power	
Vendor should provide the following accessories	<ol style="list-style-type: none"> <li>1. Tank for material</li> <li>2. Nozzle Set</li> <li>3. Printing Plate</li> <li>4. Raw Material of minimum 10 kgs</li> <li>5. Min. 8 bar 50 Litre. compressor with pipes</li> <li>6. Software for slicing</li> <li>7. Material Tube</li> <li>8. Related Accessories should be provided throughout the Warranty Priod.</li> </ol>	
Warranty	Warranty will be Five years	
Technical assistant	Vender must provide technical assistant to run the machine	
Installation/Onsite advance design and hands on training for a week	Onsite advanced design and hands on training for a week after installation. Training would involve generation of STL files and their usage during printing of the items for the 7 to 10 days.	

<b>8. Item Name: 3D Scanner (1 Nos).</b>		
<b>Parameter</b>	<b>Specification</b>	<b>Complied (Y/N)</b>
Scanning Technology	Handheld Blue Laser 3D Scanner	
Laser Wavelength	Blue laser (~450 nm) or more.	
Accuracy	≤ 0.05 mm.	
Volumetric Accuracy	≤ 0.08 mm/m.	
Scanning Speed	≥ 80 FPS.	
Resolution	≤ 0.20 mm.	
Object Size Range	Minimum 5 cm to 5 m.	
Working Distance	300 – 450 mm.	
Output File Formats	STL, OBJ (minimum).	
Software	OEM scanning & post-processing software.	
Operating Environment	Workshop / Laboratory or more.	
Controls and indicators	3 control buttons with 3 LED indicators or better	
Scanner weight	850 gm or better	
Scanner dimensions	290 x 180 x 90 mm or better.	
Laser Safety Class	Eye Safety Laser Class IIIb Mandatory or better	
Number of Points per Second	≥ 1,200,000 points/second (Mandatory) or more.	
Operating temperature	0°C to +45°C	
Scanning mode	Minimum three (3) scanning modes or better	
Warranty	Minimum 5-years comprehensive onsite warranty	

## 9. 3D Modelling Software – 30 Users (Perpetual License)

### ➤ **Powerful Overdrive™ modeling kernel**

### ➤ **Easy to Learn & Use**

The built-in Show-n-tell tutorials reduce training costs and maximize productivity.

### ➤ **Powerful Data Exchange**

**I.** Directly read 3D models from CATIA, NX ,Creo(Pro/E), SolidWorks, Solid Edge& Inventor.

**II.** Support many different kinds of standard form, such as: IGS, DWG, DXF, Parasolid, Step, STL,JT

**III.** Directly export models to Catia V5/6 or 3D PDF.

### ➤ **PMI and 2D sheet**

**I.** 3D model associated PMI

**II.** 3D model associated 2D drawing

**III.** 2D drawing inherit dimension from PMI

**IV.** Customizable dimension and annotation style

**V.** Easily reused table template and Sheet template

### ➤ **Hybrid Modeling**

**I.** Work seamlessly with wire frame, solids and surfaces

**II.** Direct edit and Quick edit--- Easy and quick edit any imported geometry

**III.** Communicating is easy with a complete 2D sheet

**IV.** Work with any imported file

**V.** Class-A surface and powerful morphing

### ➤ **Assembly**

**I.** Design assemblies top-down & bottom up

**II.** Quick edit part from assembly

**III.** Check interference with built-in motion simulation

**IV.** Integrated Part Solutions Library

**V.** Easy to activate the different part configuration and assembly configuration

### ➤ **Reverse Engineering**

**I.** Should have mainstream CAD/CAM system to offer built-in reverse engineering functionality.

**II.** Work with STL, point cloud and scan data

**III.** Refine meshes, build surfaces or repair gaps

### ➤ **Sheet Metal**

**I.** Flexible tools for designing sheet metal.

**II.** Powerful analysis tools.

**III.** Variable manufacturing information

### ➤ **Mold Design**

**I.** Automatic and manual parting lines, shutoffs, inserts, slides, cooling channels, core & cavity and mold bases

**II.** Speeds creation of the mold electrodes and automatically handles offset and associative electrode tables

**III.** Integrated libraries provide easy access for mechanical and mold designers

## 10. Desktop Workstation – 10 nos

- Intel Core i7 processor and minimum 14th Gen
- Tower Type Cabinet
- Intel W580 Chipset
- 750W PSU
- 92% Efficiency
- 16 GB RAM (Upgradable upto 128 GB ) 1TB HDD
- 7200 RPM + 512 GB M.2 NVME SSD \*
- GRAPHICS T1000 Quadro 4 GB Graphic Card
- Window 11 Professional (OEM) and MS office recent version (Office 365).
- Minimum 22” IPS Monitor
- Key Board, Mouse, UPS and other accessories.
- 5 Years Onsite Warranty.

## 11. Interactive Touch Panel Board-1 No

S.N.	Feature	Specification
1	Interactive Panel Size	85 Inches or higher
2	Aspect Ratio	16:09
3	Resolution	3840x2160 (4K-UHD resolution)
4	Contrast Ratio	4,000:1 or higher
5	Brightness	350cd/m2 or higher
6	Response Time	6 ms or better
7	Viewing Angles	178°:178° (Horizontal/Vertical)
8	Backlight Life	50,000 Hours or more
9	Glass thickness	3mm or above
10	Special features	non-glare panel, Display should have feature to access a remote PC using RDP ,Office 365 Data or Virtual Desktop(External PC in same intranet can be access from display ).
11	Touch Technology	Infrared Touch
12	Touch Point	10 points or higher
13	Input/ Output Interface or more	2xHDMI Input (3840x2160); 1xHDMI Output (3840x2160); 1xDisplay Port Input (3840x2160); 1xAudio Out; 1xRS232 Serial interface; 1xRJ45 LAN Port; 2xUSB 2.0 Type A; 1xUSB 3.0 Type A; 2xUSB 2.0 Type B (for touch)
14	Connectivity	WIFI, RJ45 wired and DC Port for OPS/PC
15	Speakers	2*10W built-in Speaker
16	Installation Type	Wall Mounting
17	Inbuilt OS	Windows/Android/Tizen ; 3 GB or above RAM DDR4; 16 GB or above ROM
19	Certifications	BIS, CE, UL, FCC,
20	Warranty	5 Yrs Support

## 12. Tables for Desktop Workstation and 3D Printers- 9 Nos.

Standard Brand Required.

Minimum size of the tables given below.

Minimum (40 x 40 x 30) inches – 2 Nos.

Minimum (40 x 30 x 29) inches - 10 Nos.

Minimum (65 x 40 x 30) inches - 1 Nos

Minimum (30 x 30x30) Inches- 2 Nos

## 13. Furniture

Storage Almirah (Minimum 2 Doors) – 1 No. with standard size 6ft.X3ft.

Almirah made of MS with front glass door for viewing the tools, accessories, consumables etc. Powder coated

Provision to hang /place tools inside the almirah Minimum H x W x D : (60 x 48 x 22) inches

## 14. 20 KVA Online UPS with 60 Min Backup.

Item Descriptions	
Rating in KVA(KVA)	20KVA;Mustbeconforming to IEC 62040-3;
Technology	IGBT-PWM with inbuilt Isolation transformer, external not allowed
Input Power	Three phase 160V- 260V sinewave,50Hz
Output Power	Three Phase 230V +/-1% with alternative user set table setting of 230V+/-1% 50 Hz
Backup time (Minutes)	60
Minimum VAH(VAH)	12000 or Higher
Warranty for UPS (Years)	5
Movable trolley for Batteries	Without trolley but with rack
Warranty for battery	5
Cabling 5meters for input and output	Without
Paralleling kit for synchronizing	Without
Installation and Commissioning	Yes
Minimum thickness of M.S. Sheet Enclosure duly painted (mm)	1:2
Type of Battery	SMF-VRLA conforming to JISC:8702 (Pt. I,II&III)
Maximum over shoot and Under shoot of output rated voltage	4
Voltage Regulation from no load to full load (%)	</=3%
20% Overload limit for minimum 10 minutes	Yes
Overall Efficiency (%)	>/=90%
Total Harmonic Distortion (THD)(%)	Maximum 3%

<b>50% Overload limit for minimum 1minutes</b>	Yes
<b>Protection for under voltage at battery terminal at 10.5V per 12 V battery</b>	Yes
<b>Protection of Overvoltage, Short Circuit &amp; over load at UPS output terminal</b>	Yes

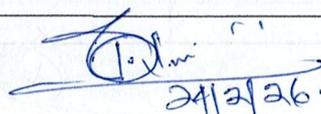
**15. Dehumidifier with minimum area coverage of 6500 cu.ft.(1nos)**

- Supplier should provide dehumidifier to maintain Humidity level should be within suitable range for machine operation
- Coverage Area: Minimum 6500 cu.ft. Control System: Digital Control Panel  
Warranty: 5 Years comprehensive warranty.

**Consolidated Pre-Bid Queries and reply/remarks from DTE&T Odisha against  
NIT No. DTET/2025-26/1223/01 (CoE in Additive Manufacturing)**

**M/s DesignTech Systems Pvt. Ltd.**

SL No.	Section & Page No.	Content of RFP requiring Clarification(s)	Points of clarification	Remarks from Bidder	Reply/Remarks from DTE&T Odisha
1	Page No.12 , Serial no. 7.1, Section 2, Setting up of COEs		The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) Centre of Excellences (CoEs)in same sector or execution of single work order involvingsupply of equipment/machineries of same sector with minimum order value of Rs.16.00 Crore or above, Or ii. Setting-up at least 04 (Four) Centre of Excellences (CoEs)in same sector or execution of two work orders involvingsupply of equipment/machineries of same sector with minimum order value of Rs.8.00 Crore or above, at any Government or Private organization/ Government or Private educational institute/ Government or Private training institute/ any Industry.	Please provide some relaxation in this clause of past performance	No Change
2	Page 37, Serial No. 3		The tank Size for sintering &DeBinding Station	Please elaborate the tank Size for sintering &DeBinding Station	<b>Sintering &amp; DeBinding Station</b> <b>Tank Size:</b> Minimum 300x240x150 (mm) <b>Outer Size:</b> Minimum 325x276x260 (mm)
3	Page 37, Serial No.5		Non-Laser Material Jetting technology 3D Printer	For a non-laser-based Material Jetting 3D printer, are you looking for a monochrome printing system or a full-color printing capability?	Non-Laser Material Jetting technology for 3D printing of part from 3D CAD model using a photopolymer liquid material with Monochrome Printing System.
4	Page 37, Serial No. 8		Multifunctional Fix and handheld 3D Scanner	For 3D Scanner You should Include a Compatible laptop as a scope of Supply to Run the scanner. Please add the laptop.	Accepted. One laptop to be added with minimum specifications mentioned in 'Annexure-2' of 'Corrigendum Notice'.
5	The scope of Civil works /Interior works at centres		Please clarify the scope of Civil works /Interior works needs to be carried out in the centers.	We need the detailed scope of work for Civil works /Interior works which needs to be carried	Please refer clause B "Scope of the Successful Bidder" and clause C "(Page No.31)

  
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			out at the centers.	Specifications of Civil & Electrical Works" from the RFP document. (Page No.33)
6	Joint Venture / Consortium Page 14 of Tender Document	Two Companies/Agencies allowed for Joint Venture /Consortium	As there are multiple products involve from different OEM's hence we are requesting for at least 3 companies in Joint Venture or Consortium	Either OEM or Authorized Partner can be the Lead Bidder in case of a JV/Consortium. Maximum 3 entities (i.e. OEM + Authorised Partner/ Technology Partner + Training/Industry Partner) are allowed for a JV/Consortium. But, with following minimum stake. <b>Lead Partner:</b> Min.50% Stake <b>Other Partner 1:</b> Min.20% Stake <b>Other Partner 2:</b> Min.20% Stake

### M/s ALTEM Technologies Pvt. Ltd.

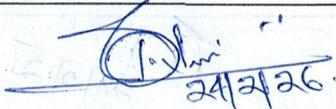
7	Section 2, Page No.12 , Serial no. 7.1, Setting up of COEs	The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) Centre of Excellences (CoEs) in same sector or execution of single work order involving supply of equipment/machineries of same sector with minimum order value of Rs.16.00 Crore or above, Or ii. Setting-up at least 04 (Four) Centre of Excellences (CoEs) in same sector or execution of two work orders involving supply of equipment/machineries of same sector with minimum order value of Rs.8.00 Crore or above, at any Government or Private organization/ Government or Private educational institute/ Government or Private training institute/ any Industry.	Request for change as " Total order value should be 25 Crores or above in supplying same or similar equipments."	No Change
8	Page No 40	For the Item no 1-(FFF) 3D printer you have asked for tool kit.	Please clarify what Kind of Tool kit you are looking forward.	Please read 'tool kit' as 'Deleted' from FFF Printer
9	Page No 42	For Item no 3 Sintering and Debinding unit it has been written Tank Size as 300X240X15 Os	Should we read it as 300X240X150 MM	Please refer query no.2
10		<b>The scope of Civil works /Interior works at centres</b> Please clarify the scope of Civil works /Interior works needs to be carried out in the centers.	We need the detailed scope of work for Civil works /Interior works which needs to be carried out at the centers.	Please refer query no.5
11	4.1 Pre-Qualification/ Eligibility Criteria: 4. Financial Capacity	The Bidder shall have an average annual turnover of at least Rs. 60.00 Crore over the last three Financial Years i.e., FY: 2022-23, 2023-24 & 2024-25. This must be the Bidder's turnover and not that of group companies/ organizations.	JV/Consortium, the Annual Turnover of all partner companies will be added together for the calculation of required avg. annual turnover criteria.	Please refer Point No. I from the Section 4.3 "Joint Venture/Consortium must comply the following requirements". Page No.15

  
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12	7. Past Experience	The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) CoEs with minimum order value of Rs.16.00 Crore or above ii. Setting-up at least 04 (Four) CoEs with minimum order value of Rs.8.00 Crore or above	Please clarify, in case of JV/Consortium, the Past Experience Criteria of all partner companies will be added together for the calculation of required similar supply experience.	Please refer Query No.11 above.
13	Joint Venture (JV)/Consortium: Page 14,	Joint Venture (JV)/Consortium: Two Companies/Agencies may jointly undertake contract(s).	We request for at least 3 companies in Joint Venture or Consortium as there are many equipments required from different Manufacturers.	Please refer Query no.6

## M/s Advance Mechanical Services Private Limited.

SL No.	Section & Page No.	Content of RFP requiring Clarification(s)	Points of clarification	Remarks from Bidder	Reply/Remarks from DTE&T Odisha
14	Page No.12 , Setting up of COEs	The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) Centre of Excellences (CoEs) in same sector or execution of single work order involving supply of equipment/machineries of same sector with minimum order value of Rs.16.00 Crore or above, Or ii. Setting-up at least 04 (Four) Centre of Excellences (CoEs) in same sector or execution of two work orders involving supply of equipment/machineries of same sector with minimum order value of Rs.8.00 Crore or above, at any Government or Private organization/ Government or Private educational institute/ Government or Private training institute/ any Industry.		We request for relaxation in this clause of past performance	No Change
15	Serial No. 3, Page 37,		The tank Size for sintering & DeBinding Station	We request for some elaboration on the tank Size for Sintering & DeBinding Station	Please refer query no.2
16	The scope of Civil works		The scope of Civil works /Interior works needs to be carried out in the centers.	Please elaborate on the detailed scope of work for Civil works /Interior works which needs to be carried out at the centers.	Please refer query no.5
17	Page 14 , Joint Venture / Consortium		Only Two Companies/ Agencies allowed for Joint Venture / Consortium	As per tender document, there are multiple product requirement from different MANUFACTURERS, hence we are requesting for atleast 3 companies in Joint Venture / Consortium.'	Please refer Query no.6


  
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## M/s 3D Bazaar.in

18	Section 2, Page No.12 , Serial no. 7.1, Setting up of COEs	The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) Centre of Excellences (CoEs) in same sector or execution of single work order involving supply of equipment/machineries of same sector with minimum order value of Rs.16.00 Crore or above, Or ii. Setting-up at least 04 (Four) Centre of Excellences (CoEs) in same sector or execution of two work orders involving supply of equipment/machineries of same sector with minimum order value of Rs.8.00 Crore or above, at any Government or Private organization/ Government or Private educational institute/ Government or Private training institute/ any Industry.	Is it possible if we can decrease the value of turnover so that more competitors can compete?	No Change
19	Serial No. 3, Page 37,	The tank Size for sintering &DeBinding Station	Please elaborate the tank size for sintering &DeBinding Station	Please refer query no.2
20	Serial No.13, Page 37,	Storage Almirah (minimum 2 doors)	Is there any particular size for Storage Almirah that you require? Or is it generic?	Standard size as 6X4 ft. or better

## M/s Kikstart Careers Private Limited

SL No.	Section & Page No.	Content of RFP requiring Clarification(s)	Points of clarification	Remarks from Bidder	Reply/Remarks from DTE&T Odisha
21	Section 4.1, Sl no. 4&7, Page no. 11 & 12	The points covering the bidder to meet Financial & Past Experience Criteria in Pre-Qualification Criteria & Technical Evaluation		According to Govt. of Odisha Financial rules and a local startup in Startup Odisha, We shall be permitted to be exempted from Turnover & Experience criteria. Please clarify on this	Exemption shall be given to the local MSMEs and Startups as per the Government of Odisha MSME guidelines. MSME Department Notification No.566/MSME dated 24.01.2024)
22	Section 4.1, Sl no. 15, Page No. 13	EMD Exemption		According to Govt. of Odisha Financial rules and a local startup in Startup Odisha, We shall be permitted to be exempted from Earnest Money Deposit. Please clarify on this.	
23	Section 5, Sl no. B, Sub Point 14, Page no. 32	The agency must provide at least two (02) Qualified and Experienced Faculties for each CoE with minimum Graduate Engineer and minimum 5 years of industry experience in relevant field.		Please specify if a trainer with the background of Diploma from relevant field/Engineering will be allowed to be deployed or not.	Please refer Point No. 14 (X) from Clause <b>B- Scope of the Successful Bidder?</b> Page No. 32
24	Section 6, Item No.3, Page no. 42	Sintering &Debinding Station		Please clarify the size of Tank mentioned in Sintering &Debinding Station	Please refer query no.2
25	Section 6, Item No.5, Page no. 46	Non-Laser Material Jetting technology 3D Printer		Are you a looking for color or monochrome solution?	Please refer query no.3

*(Signature)*  
24/2/26

26		Support Materials required for 3D Printers	Please clarify whether all the Support Materials required for the 3D printers be supplied to you in a whole single consignment during delivery or it is required on demand/specific requirement basis	An approximate Qty. of support material mentioned with every 3D Printer. However, it is already clarified during Pre-Bid Meeting that support materials, raw materials and consumables must be supplied for entire 36 months of hand-holding training period. Therefore, selected bidder must supply over and above the quantity mentioned in the RFP document (if required).
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## M/s Sai Sree Infra Developers

27	Page No. 11, 4.1 Pre- Qualification Criteria 1. Legal entity	The Bidder must be registered as either of the following: a. Company under Companies Act, 1956/2013 or b. Partnership Firm registered under the Indian Partnership Act, 1932 or c. Joint Ventures (JV)/Consortium* or d. Limited Liability Partnership registered under The Limited Liability Partnership Act, 2008 registered	Our firm is a Proprietorship concern. We request you to kindly clarify and consider the eligibility of proprietorship firms to participate in the above tenders.	No Change
28	Page No. 11, 4.1 Pre- Qualification Criteria 4. Financial Capacity	The Bidder shall have an average annual turnover of at least Rs. 60.00 Crore over the last three Financial Years i.e., FY: 2022-23, 2023-24 & 2024-25. This must be the Bidder's turnover and not that of group companies/ organizations.	We request you to change this turnover to Rs. 40.00 Cr	No Change
29	Page No. 12, 4.1 Pre- Qualification Criteria 7. Past Experience 7.1 Setting-up CoEs	The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) Centre of Excellences (CoEs) in same sector or execution of single work order involving supply of equipment/machineries of same sector with minimum order value of Rs.16.00 Crore or above, Or ii. Setting-up at least 04 (Four) Centre of Excellences (CoEs) in same sector or execution of two work orders involving supply of equipment/machineries of same sector with minimum order value of Rs.8.00 Crore or above, at any Government or Private organization/ Government or Private educational institute/ Government or Private training institute/ any Industry.	We respectfully request you to kindly consider and allow the past experience gained during the last seven (7) years for evaluation	No Change

*(Signature)*  
21/2/26

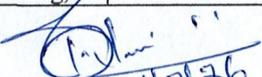
## M/s Adroit Information Systems Pvt. Ltd.

30	Section 2, Page No.12 , Serial no. 7.1, Setting up of COEs	The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) Centre of Excellences (CoEs) in same sector or execution of single work order involving supply of equipment/machineries of same sector with minimum order value of Rs.16.00 Crore or above, Or ii. Setting-up at least 04 (Four) Centre of Excellences (CoEs) in same sector or execution of two work orders involving supply of equipment/machineries of same sector with minimum order value of Rs.8.00 Crore or above, at any Government or Private organization/ Government or Private educational institute/ Government or Private training institute/ any Industry.	<b>Past Performance:</b> Can it be modified as total order value should be 30 Crores or above in supplying same or similar Equipments, which should be total Order value of 4 or 5 Purchase Orders during last three financial year.	No Change
31	Page No. 11, 4.1 Pre-Qualification Criteria 4. Financial Capacity	The Bidder shall have an average annual turnover of at least Rs. 60.00 Crore over the last three Financial Years i.e., FY: 2022-23, 2023-24 & 2024-25. This must be the Bidder's turnover and not that of group companies/ organizations.	Kindly clarify whether, in the case of a Joint Venture (JV) or Consortium, the Turnover of all partner entities shall be considered cumulatively for the purpose or evaluating compliance with the required Turnover.	Please refer query no.11
32	Page 12, Point 7. Past Experience	The bidder, during last 03 (Three) financial years must have the experience in i. Setting-up at least 02 (Two) CoEs with minimum order value of Rs.16.00 Crore or above, Or ii. Setting-up at least 04 (Four) CoEs with minimum order value of Rs.8.00 Crore or above,	Kindly clarify whether, in the case of a Joint Venture (JV) or Consortium, the past experience of all partner entities shall be considered cumulatively for the purpose or evaluating compliance with the required similar supply experience criteria.	
33	Page 37, Serial No.8	Multifunctional Fix and handheld 3D Scanner	For 3D Scanner You should include a Compatible laptop as a scope of Supply to Run the scanner. Please add the laptop.	Please refer query no.4
34	The scope of Civil works/ Interior works at centres	Please clarify the scope of Civil works/Interior works needs to be carried out in the centres.	For How many Years the manpower will be there in the proposed centers?	Please refer Point No. 14 from Clause <b>B- Scope of the Successful Bidder'</b> . Page No. 32
35	Page 14, Section: 4.3	Joint Venture(JV)/Consortium: Two Companies/Agencies may jointly undertake contract (s).	As there will be multiple products required from different Original Equipment Manufacturer, our request is for at least 3 companies in Joint venture or Consortium.	Please refer query no.6

*(Signature)*  
24/11/26

# M/s Phillips Machine Tools India Pvt. Ltd.

36	1. Brand-Specific & Restrictive Technical Specifications	<p>Several technical parameters, material names, and process descriptions in the RFP appear to be implicitly aligned to specific proprietary brands and models, including:</p> <ul style="list-style-type: none"> <li>• Composite FDM systems aligned to Stratasys-type proprietary ecosystems</li> <li>• Low-end FDM/FFF systems assembled from imported Chinese sub-assemblies</li> <li>• Brand-specific material naming conventions rather than generic ASTM/ISO-based material classifications</li> <li>• Scanner and peripheral specifications aligned to entry-level imported equipment</li> </ul>	Such specifications restrict participation of globally proven, open-architecture OEMs and contradict established procurement principles mandating brand neutrality, competition, and equivalence.	These specifications were finalized by the technical experts team after careful and extensive market research and examination, keeping in mind that minimum 4 (four) to 5 (Five) OEMs can bid for every single 3D Printers.
37	2. Concerns with Low-End Assembled FDM/FFF Platforms	<p>The inclusion of assembled FDM/FFF platforms based on imported Chinese components (e.g., Smart One Plus-type systems) raises serious concerns:</p> <ul style="list-style-type: none"> <li>• Unproven long-term reliability in academic &amp; institutional environments</li> <li>• Poor user experience, calibration drift, and high downtime</li> <li>• Limited industrial relevance for advanced skilling and R&amp;D</li> <li>• Dependency on non-standard spares and weak after-sales ecosystems</li> </ul>	Such systems are unsuitable for a Centre of Excellence, where stability, repeatability, and pedagogical depth are critical.	<p>We are strictly following the Government of India rule regarding the '<b>Restrictions on procurement from a Bidder of a country which shares a land border with India</b>' (TECH-10) in this tender.</p> <p>The RFP encourages industrial-grade, Made-in-India platforms with open material compatibility and proven deployment across Indian academic institutions.</p>
38	Metal & Ceramic Printing via Debinding-Sintering Route	<p>The proposed metal and ceramic additive solution based on debinding and sintering is particularly concerning:</p> <ul style="list-style-type: none"> <li>• The technology is highly process-sensitive, material-dependent, and still evolving</li> <li>• Requires strict material handling, atmosphere control, and metallurgical expertise</li> <li>• Extremely poor user experience for ITI-level students and trainers</li> <li>• High probability of failed builds, cracked parts, and unusable output</li> <li>• High operating cost with low learning ROI</li> </ul>	Introducing such an unproven and fragile workflow in a government ITI ecosystem is likely to result in idle equipment, underutilization, and waste of public funds.	Technical expert team finalized the list of equipment and specifications after thorough market research and demand analysis.
39	4. DLP-Only Specification Restricting SLA & mSLA	<p>The RFP specifies DLP-based photopolymer systems in a manner that excludes advanced SLA and mSLA platforms, which are:</p> <ul style="list-style-type: none"> <li>• Widely used in tooling, medical, dental, casting,</li> </ul>	Restricting the photopolymer segment to only DLP significantly limits learning outcomes and future scalability of the CoE.	Technical expert team finalized the list of equipment and specifications after thorough market research and demand analysis.

  
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	Technologies	and precision prototyping • Offer better scalability, resin ecosystem diversity, and surface fidelity • Globally accepted across education, research, and industry		
40	5. Clay Printing System Inclusion	The inclusion of a clay-based additive system (aligned to specific OEMs) lacks: • Direct relevance to core industrial additive manufacturing • Clear linkage to employability, MSME support, or Industry 4.0 • Curriculum justification for ITI-level CoEs	Such equipment may be suitable for art or experimental labs, but not as a core CoE investment.	Technical expert team finalized the list of equipment and specifications after thorough market research and demand analysis.
41	6. Impact on Public Interest & Long-Term Outcomes	In its present form, the RFP risks: • Restricting competition and excluding capable OEMs • Locking institutes into closed, proprietary ecosystems • Creating maintenance-heavy, low-uptime labs • Delivering poor student learning outcomes • Resulting in underutilized assets and wasted public expenditure	This would be contrary to the stated objective of establishing Centres of Excellence.	<ul style="list-style-type: none"> <li>• The tender encourages at least 4 to 5 OEMs for each category of 3D Printers/machines.</li> <li>• Moreover, these technologies support open or semi-open material ecosystems, enabling academic experimentation and cost control.</li> </ul>
42	7. Our Humble Request	We respectfully request DTE&T to consider: 1. Revising technical specifications to be: o Brand-neutral o Performance-based o Aligned with ASTM / ISO / global AM standards 2. Allowing equivalent and superior technologies across: o Polymer AM (FDM, SLS, SLA, mSLA) o Industrial-grade metal AM exposure (simulation, DED concepts, etc.) 3. Removing or reconsidering unproven, fragile, or niche technologies unsuitable for ITI environments 4. Ensuring that the CoEs remain future-ready, industry-relevant, and pedagogically strong	We submit this representation in the larger public interest, with the sole intent of ensuring that the proposed CoEs become robust, sustainable, and nationally benchmarked centres of excellence, delivering maximum value to students, industry, and the State. We shall be grateful for an opportunity to present detailed technical justification during the pre-bid meeting, if deemed appropriate. The whole specs need to be reviewed and revised to do justice with Taxpayers Hard-Earned Money.	Equivalent or higher technical specifications are accepted for all the equipment mentioned in the tender.

*Rathore*

Director  
DTE&T Odisha, Cuttack