Annexure- II

Financial BID

(Financial bid shall be provide in a separate cover with clearly mentioned on the cover 'Financial BID')

Subject: Tender for Procurement of Capital Equipment for National Additive Manufacturing Centre West

To,

The Director, National Additive Manufacturing Centre West, Ganpat University, Ganpat Vidyanagar, Dist.: Mehsana Gujarat, India

Dear Sir,

We have understood the instructions and the terms and conditions mentioned in the Technical Bid Document and have thoroughly examined the Technical Bid Document and are fully aware of the scope of work required. We are hereby submitting our "Financial Bid" as per prescribed format.

Sr. No.	**Technology**	**Category**	**Specification (Minimum or Typical Requirement)**	Total in INR (in Figures)	Total in INR (in Words)
1	Powder Bed Fusion type Metal base Additive Manufacturing	Build Envelope	Cylindrical or Rectangular; Minimum Ø180 mm × 175 mm (H) or 200 mm × 200 mm × 200 mm		
		Laser Power	Minimum 400W Ytterbium (Yb) Fiber Laser		

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		Scanning Speed	Up to 5–7 m/s or higher		
		Layer Thickness	Selectable: typically, 30 µm to 60 µm		
		Re-coater Type	High-durability blade or roller-based recoater, capable of handling reactive and non-reactive metals		
		Preparation Software	Industry-standard software like Materialise Magics, Siemens NX, or equivalent with customized build processor		
		Machine Dimensions	Within 1600 mm × 1600 mm × 2100 mm (L × W × H) or compact footprint where feasible		
		Power Supply	3-Phase, 440V, 50Hz (or local industrial power standards)		
		Supported Materials	Must support a wide range of alloys including: AlSi10Mg, SS316L, 18Ni300, 17-4PH, 15-5PH, IN625, IN718,		

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			Ti6Al4V, CoCr, CuCrZr		
		Build Platform Heating	Platform heating up to 200°C (recommended for stress reduction)		
		Atmosphere Control	Inert gas environment with oxygen control below 100 ppm (Argon/Nitrogen)		
		Cooling System	Integrated water or air cooling system for laser and optics		
		Data Connectivity	Ethernet, USB, and remote monitoring capability		
		Safety Features	Emergency stop, interlock system, gas sensors, and fire suppression (optional but recommended)		
		Certifications	CE / ISO 9001 / Industrial Safety and Quality Standards Compliant		
2	Wire Arc Base Additive Manufacturing	Category	General Specification (Minimum/Typical)		
		Deposition Process	WAAM (Wire Arc Additive Manufacturing) using Gas Metal		

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			Arc Welding (GMAW/MIG), TIG, or Plasma Arc		
		Power Source	300A–500A Programmable Welding Power Supply (e.g., Fronius, Lincoln, or equivalent)		
		Torch System	Robotic/Manual Torch with Cooling (Air/Water) and Wire Feeder		
		Wire Feeder	Precision wire feeder with adjustable speed (typically 1–10 m/min)		
		Wire Diameter	0.8 mm to 1.6 mm (compatible with material grade)		
		Robot / Motion Platform	6-axis industrial robotic arm or 3-axis CNC gantry system with synchronized motion control		
		Build Volume	Minimum 500 mm × 500 mm × 500 mm (customizable based on gantry or robot reach)		
		Material Compatibility	Carbon Steel, Stainless Steel (SS304, SS316L),		

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			Aluminium (ER4045, ER5356), Titanium, Inconel, Copper alloys		
		Shielding Gas	Argon / Argon-CO_2 mix (depending on material), with flow control and enclosure setup for inert environment		
		Cooling System	Torch and system cooling through chiller or heat exchanger		
		Positioning Accuracy	±0.2 mm or better (based on motion system and calibration)		
		Layer Height	Typically, 1–2 mm per layer (depending on wire type, current, and speed)		
		Deposition Rate	0.5 – 2.0 kg/hr (material and process dependent)		
		Software	WAAM-compatible path planning and slicing software (e.g., WAAM Ctrl, Siemens NX AM,		

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			or custom-developed)		
		Electrical Supply	3-Phase, 415–440V, 50Hz		
		Certifications	CE / ISO 9001 / Relevant welding and safety compliance standards		
3	Fused Deposition Modeling 3D Printer	Printing Technology	Fused Deposition Modeling (FDM) / Fused Filament Fabrication (FFF)		
		Build Volume	200 x 200 x 200 mm to 300 x 300 x 400 mm (desktop)		
		Printer Dimensions	Varies; typically 400 x 400 x 500 mm for desktop models		
		Layer Resolution	50–300 microns (0.05–0.3 mm)		
		Positioning Accuracy	X/Y: ±0.0125 mm, Z: ±0.0025 mm		
		Print Speed	40–150 mm/s (typically 60–80 mm/s for best quality)		
		Travel Speed	Up to 250 mm/s		
4	Resin material base 3D Printer	Printing Technology	MSLA (Masked Stereolithography) / DLP / SLA		
		Build Volume	Minimum: 120 × 68 × 150 mm (W × D × H)		

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		XY Resolution	≤ 50 microns (0.05 mm)		
		Z-axis Layer Resolution	10–100 microns (0.01–0.1 mm)		
		Light Source	UV LED or UV Laser, 405 nm wavelength		
		Display Type	Monochrome LCD (for MSLA), DLP projector, or Laser (SLA)		
		Print Speed	20–50 mm/h (depending on resin and exposure settings)		
		Build Platform Levelling	Manual / Semi-automatic levelling		
		Connectivity	USB / SD Card / Wi-Fi (optional)		
		Supported File Formats	STL, OBJ, 3MF, SLC		
		Slicer Software	Chitubox, Lychee Slicer, PreForm (for Formlabs), etc.		
		Touchscreen Display	≥ 3.5” color touchscreen		
		Enclosure	Fully enclosed with UV protection cover		
Total Rs.					
GST %					
GST in Rs.					
Final Total in Rs.					

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