

Technical Specification - Baking Oven				
Sl.No.	Item	Description	Compliance	Remarks
1	Minimum chamber size required	(W)310 mm x (H)310 mm x (D)260 mm	Yes/No	
2	Heater	Cleanroom compatible & should not produce particles	Yes/No	
3	Operating Range	40°C to 260°C	Yes/No	
4	Temperature Uniformity	± 2°C or better	Yes/No	
5	Alarm	End of cycle and temperature overshoot alarm	Yes/No	
6	Communication and Interface	Controller to set, ramp and reduce temperature	Yes/No	
7	Nitrogen atmosphere operation	Controlled flow of Nitrogen for process as well as to reduce temperature	Yes/No	
8	Air Circulation	Laminar air flow inside the chamber	Yes/No	Motor and fan should be cleanroom compatible
9	HEPA filter	Heat resistant HEPA filter	Yes/No	Recirculated airflow 100% HEPA filtered for operation at Class 100 (ISO 5) throughout the cycle
10	Chamber clean level	Class 100 (ISO 5)	Yes/No	
11	Chamber and body construction	Stainless steel 304 interior and exterior	Yes/No	
12	Door construction	Silicone free construction and free from particles	Yes/No	
13	Drawings, Manuals and user training	Necessary electrical drawings and manuals (Hard & soft copy) to be given after installation and acceptance of equipment. Training of the system should be given to the IIT Madras personnel	Yes/No	
14	Warranty	Standard one year warranty	Yes/No	
15	Shipping terms	DAP at IIT Madras site	Yes/No	
16	Facility details	Detailed information of facilities should be provided	Yes/No	Nitrogen inlet, exhaust and Power
17	Installation, and Commissioning	Installation and commissioning is to be carried out by the vendor's factory-trained engineers, followed by a demonstration of the system's performance at IIT Madras	Yes/No	



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Important Notes:

1. Please provide complete drawing of the system along with utilities connection and range. We may reject the tender if a proper drawing is not provided OR if the outlay/design proposed is not found satisfactory.
2. Please provide photographs, drawings and technical specifications of the equipment.
3. Please provide at least 3 references of laboratories (in India) where you have installed similar systems with full specification of the systems. We may reject the tender if we find the reference systems unsatisfactory.
4. Please provide details of after sales service. The supplier should have service centre or facility with complete infrastructure in India to handle major repair of the system. Critical spares should be available off the shelf in Indian offices. In case of a break down, maintenance and replacement of parts should be possible at purchaser's site. We may reject the quote if the after-sales service details or feedback from previous purchasers are found unsatisfactory.
5. Please provide separate technical and financial bids in sealed envelopes.
6. Please mark tender number on top of the cover envelope.
7. Provide list of mandatory and optional spares along with wear & tear consumables list.


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