

Annexure-V

Compliance report

Note: The bidder is required to mention detailed specifications clearly in column named as Specifications from Bidder against each item as mentioned in below format. Please note that merely mentioning Yes/No in deviation column will lead to disqualification of the bidder.

(I) Name of Instrument : Rolling Thin Film Oven

Sr. No.	Specification of e-Tender	Specification of Bidder/Vendor	Deviation (Yes/No)	Remarks
1.	Rolling Thin Film Oven (RTFO) confirming to ASTM D2872-12 / AASHTO T240 with the following specifications: Oven: <ul style="list-style-type: none"> • Should be double-walled electrically heated convection-type oven. Its external frame and internal chamber should be of stainless steel with high density fiberglass insulation • The oven shall have an air plenum covering the side walls and ceiling. • The inside dimensions shall be 381 mm high, 483 mm wide (including the plenum) and $(445 \pm 13 \text{ mm})$ deep (with the door closed). • It shall be a bench top unit. • The door shall contain a symmetrically located window. The window shall contain two sheets of heat- resistant glass separated by an air space. The window should permit an unobstructed view of interior oven. • The oven shall be vented at the top and bottom for dissipation of expended volatile from specimen. • It shall be equipped with a proportional control thermostat capable of maintaining temperature $163 \pm 0.5^\circ\text{C}$ • Shall provide with vertical circular carriage. This carriage shall provide suitable openings and clips for firmly holding eight containers in horizontal position. The carriage shall be mechanically driven through a shaft at a speed of 15 ± 0.2 rotations /min. 			

	<ul style="list-style-type: none"> • Equipped with an air jet positioned to blow heated air into each bottle at its lowest point of travel. • The heating controls shall be capable of bring the full load oven back to test temperature within 10 min period after the insertion of the samples in the pre-heated oven. • The oven should be equipped with thermal protection to prevent overheating in the event of control failure. • Air pressure gauge - Range 0-100 psi • Air flow adjustment - Needle valve • Temperature range - Ambient to 200°C <p>Flowmeter:</p> <ul style="list-style-type: none"> • Digital type flow meter capable of accurately measuring the airflow at a rate of 4000 ± 200 ml/min <p>Thermometer:</p> <ul style="list-style-type: none"> • It should have mercury in glass thermometer confirm ASTM 13 C or can be any electronic temperature measurement system capable of measuring temperature 160 to 170 °C accuracy of 0.1°C. <p>Power Supply</p> <ul style="list-style-type: none"> • 208-240 V, 1 Phase, 50/60 Hz <p>Container:</p> <ul style="list-style-type: none"> • A set of 8 clear, transparent, heat-resistant glass containers to test the sample confirming to the dimensions mentioned in ASTM. Provide 20 additional/spare containers. <p>Other Accessories</p> <ul style="list-style-type: none"> • Suitable type bottle scrapper and stainless steel oven tongs for remove and install jars with appropriate gripping pads should be provided. 			
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	<p>Cooling Rack</p> <ul style="list-style-type: none"> • A wire or sheet metal rack, constructed of stainless steel or aluminum, which allows the sample containers to cool in a horizontal position, with each container in the same horizontal plane. The rack shall be constructed in a way that allows air to flow freely around each container with at least 25 mm clearance between containers and any solid surface. <p>Also necessary components such as air compressor and air dryer system for dry air supply to be quoted.</p> <p>Installation, Demonstration and Training</p> <p>Installation and demonstration of supplied RTFO system should be made at the premises of IITRAM Ahmedabad and training to the users should be provided.</p>			
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