

**Central Glass & Ceramic Research Institute  
KOLKATA (WEST BENGAL) INDIA**

**CORRIGENDUM**

**REFERENCE NO. :- P/NC/71/PB/DB/OTE/23-24**

**DATE: 04/01/2024**

**NAME OF ITEM: CLIMATE (ENVIRONMENTAL) CHAMBER**

**CONSEQUENT TO THE PRE-BID MEETING HELD ON 21/12/2023 AGAINST OUR TENDER ENQUIRY No. P/NC/71/PB/DB/OTE/23-24, THE REVISED SPECIFICATIONS OF THE EQUIPMENT IS AS FOLLOWS:-**

	Specification details	Range/Value
1	Orientation/Model type:	Bench top model
2	Temperature control Range:	From -65°C or lower to +185°C or higher
3	Temp Gradient(Cooling/Heating rate):	Cooling rate: 1.5°C/minute or higher, Heating rate: 4.0°C/minute or higher
4	Temperature control and stability:	Within $\pm 0.6^{\circ}\text{C}$ or lower
5	Humidity Range:	Minimum 10% or lower to 95% or higher
6	Humidity accuracy:	$\pm 4.5\%$ RH or lower
7	Humidity Sensor:	Electronic, solid-state humidity sensor for accuracy and minimal maintenance.
8	Workspace Volume:	Minimum 350mm(Width) X 250mm(Depth) x 250mm(Height) but not more than 32 Litres
9	Overall Exterior Dimension	Within 1310 mm (Width) x 1010mm(Depth) x 870 mm(Height)
10	Refrigerant and Cooling system:	Cooling system should be in built cascade Refrigeration unit with suitable compressor with environmental friendly refrigerant. Condenser should be air cooled.
11	Control interface, software, data recording connectivity features:	<ul style="list-style-type: none"><li>▪ At least 4" (10 cm) Colour touch screen or bigger.</li><li>▪ Options for icon-based navigation like a smart phone or a windows-based navigation</li><li>▪ Provision for individual profiles for separate measurements.</li><li>▪ Wired/wireless,/local area network or Ethernet connectivity for access anywhere to remote monitor</li><li>▪ Data logging with custom file names, events &amp; digital signatures.</li><li>▪ Easily download profiles, alarm files, audit trail files and data files to USB stick. Also import profiles for easy transfer among multiple chambers.</li><li>▪ Access data files directly from controller or PC</li><li>▪ Alarm notification system sends email and/or text phone messages via Ethernet.</li><li>▪ Email options from the display panel</li><li>▪ Provision for trend graphs plot</li><li>▪ Profile Auto start option.</li><li>▪ Security features for different users</li><li>▪ Setting high/low temperature limit of the device for safety.</li><li>▪ Selectable power failure/recovery options.</li><li>▪ Ethernet &amp; EIA-232 Serial Communication.</li></ul>

12	Entry port:	2" (50 mm) circular access ports with plug, and should be leak proof and thermally insulated.
13	Material of construction:	Internal – Stainless steel Exterior – Powder coated MS or SS
14	Noise Level (Operational Sound Level):	Front: $\leq 65$ dB Rear: $\leq 68$ dB
15	Safety features:	<ul style="list-style-type: none"> <li>Multiple safety devices include a primary over-temperature limit to protect the climate chamber.</li> <li>An over-temperature safety limit to protect the chamber.</li> <li>All power and control circuits should have primary safety features like having individually fused.</li> <li>Safety relay connection should be provided.</li> </ul>
16	Power requirement:	230V $\pm$ 10, 50 Hz, 1 phase
17	Installation & Training:	Installation of the system at site
18	Training	Training for one working day for 4 people to be provided at Site by the company engineer or the supplier on complete Climate chamber system, software features and accessories.
19	Warranty:	Minimum one year onsite warranty (including all parts) from the date of successful installation and commissioning at CGCRI site
20	Calibration:	Calibration and CE (For foreign OEM) or BIS (for Indian OEM) certificate should be provided
21	Eligibility criteria for standard/non-standard/customised product:	<ul style="list-style-type: none"> <li>OEM / vendor should have ISO Certification and should have onsite service support ability with all spare parts for at least for 3 years or more</li> <li>Vendor should provide at least 3 nos. PO copies (with all contact details) of similar specification product supplied in Government research organisation.</li> <li>Vendor should provide satisfactory operational performance review report duly endorsed by the end-user organisation for at least 2-3 years or more of their similar specification product previously installed in Government research organisations.</li> <li>Indian OEM should provide Calibration certificate taken from NABL accredited STQC laboratories like ERTL/ETDC for their offered product</li> <li>Performance (heating and cooling rate) and calibration is not found as per the specification during test after installation at CGCRI premises by the supplier, the item will not be accepted by CGCRI (as per rules of CSIR).</li> </ul>

The eligibility criteria as mentioned in Point No. 21 will be the part & parcel of CSIR-CGCRI's tender document under OTE Enquiry bearing No. P/NC/71/PB/DB/OTE/23-24 dt. 15/12/2023.

Last date of submission of bids and Date of opening of bids have been revised as follows:-

Last date of submission of bids	22 <sup>nd</sup> January, 2024 upto 03.30 PM.
Date of Opening of Bids	24 <sup>th</sup> January, 2024 at 03.30 PM.

The above amendments shall amount to amendments of the relevant terms of our Bid Document for CGCRI Tender No. P/NC/71/PB/DB/OTE/23-24.

All the other Tender terms remain unchanged.

2024.01.02  
(Anjani Kr. Pandey)  
Stores & Purchase Officer

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