

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

CORRIGENDUM

REFERENCE NO. : - P/NC/41/EWA/41/SO(SB)/OTE/25-26

DATE: 13/06/2025

NAME OF EQUIPMENT: INSTALLATION, COMMISSIONING, DEMONSTRATION & TRAINING OF "GLOVE BOX" [CPP PORTAL TENDER ID: 2025_CSIR_236485_1].

NOTE: The Bids must be submitted in the Central Public Procurement Portal (URL: <https://etenders.gov.in/eprocure/app>) only. Manual/Offline bids shall not be accepted under any circumstances. Bidders should quote in INR only.

CONSEQUENT TO THE PRE-BID MEETING HELD ON 09/06/2025, THE REVISED TECHNICAL SPECIFICATION IS ATTACHED IN ANNEXURE – A GIVEN BELOW:-

Further, the following changes are also made in bid submission and opening dates:-

Bid Submission End Date & Time	08/07/2025 at 3.30 PM (IST)
Bid Opening Date & Time	09/07/2025 up to 3.30 PM (IST)

All other Tender terms and conditions remain unchanged.


Stores & Purchase Officer

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भण्डार एवं क्रय अधिकारी/Stores & Purchase Officer
सीएसआईआर - केन्द्रीय काँच एवं सिरेमिक अनुसंधान संस्थान
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REVISED TECHNICAL SPECIFICATION

1. **Glove Box Dimensions (L x D x H):** Approx. 1150–1250 mm x 700–800 mm x 850–950 mm

3.Primary Antechamber (L x D): Minimum 550- 600 mm x 380- 400 mm

4. **Secondary/Small Antechamber (L x D):** Approx. 200-400 mm x 130-150 mm or larger

5. View Panel: Transparent acrylic/polycarbonate window/multilayered glass, minimum 10 mm thickness with anti-scratch or equivalent protective coating

6. Glove Ports: Minimum two glove ports, made from durable engineering plastic (e.g., Anodized Aluminum, POM/HDPE or equivalent), diameter approx. 200-220 mm with O-ring sealing

7. Gloves Provided: At least three pairs of chemically resistant gloves (Butyl or equivalent)

- o Digital vacuum sensor for antechambers (0.5 – 1 mbar)
- o Moisture and oxygen sensors with detection levels of ≤ 1 ppm
- o Oxygen sensors must be solid state or Zirconia based
- o Moisture accuracy: ± 1 ppm or better
- o Sensor brands should be equivalent to reputed international brands (e.g., GE or similar)

- o Automatic pressure regulation system (range ± 10 to ± 20 mbar), with optional manual override
- o Waterproof foot switch or control mechanism for temporary pressure adjustment

- o Antichamber: Less than 1×10^{-5} mbar L/s for inert gas (e.g., nitrogen) and less than 0.01 vol% / hr glove box for inert gas

- Capable of maintaining moisture and oxygen levels ≤ 1 ppm
- Should include molecular sieves (~6-9 kg) and copper catalyst (~5-9 kg) or equivalent
- Integrated blower system for internal gas circulation

12. Filtration System:

- HEPA filters of class H13 or better for both gas inlet and outlet

13. Display & Interface:

- Digital touchscreen control panel, minimum 7-inch
- Microprocessor-based or PLC based system with programmable settings

14. Chamber Access:

- Front-opening access door for transferring large equipment or materials (1150–1250 mm x 850–950 mm)
- Manual and automated control options for antechambers

15. Connections: KF25 / KF40 or equivalent vacuum/exhaust/inlet connectors

16. Valves: High-quality solenoid valves (SMC or equivalent make)

17. Electrical Features:

- Integrated electrical panel with power outlets inside each chamber
- Three phase, 64A MCB / Single phase with max. load current up to 16A

18. Vacuum Pump: Included with the system; oil-sealed rotary or equivalent type (10^{-3} - 10^{-5} bar)

19. Warranty & Maintenance:

- Comprehensive warranty for 3-years

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