

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

**CORRIGENDUM**

REFERENCE NO. : - P/NC/37/MBN/SO(SB)/OTE/25-26

DATE: 21/08/2025

**NAME OF EQUIPMENT: INSTALLATION, COMMISSIONING, DEMONSTRATION & TRAINING OF "MERCURY INTRUSION POROSIMETER" [CPP PORTAL TENDER ID: 2025\_CSIR\_242549\_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 05/08/2025, THE REVISED TECHNICAL SPECIFICATION IS ATTACHED IN ANNEXURE – A GIVEN BELOW:-

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

<b>Bid Submission End Date &amp; Time</b>	<b>08/09/2025 up to 3.30 PM (IST)</b>
<b>Bid Opening Date &amp; Time</b>	<b>09/09/2025 at 3.30 PM (IST)</b>

All other Tender terms and conditions remain unchanged.

  
21/8/2025  
Stores & Purchase Officer

#\*\*\*\*\*  
बोधिसत्व धर / Bodhisattwa Dhar  
भण्डार एवं क्रय अधिकारी / Stores & Purchase Officer  
सीएसआईआर-केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान  
CSIR-CENTRAL GLASS & CERAMIC RESEARCH INSTITUTE  
196, राजा एस. सी. मल्लिक रोड / 196, Raja S.C. Mullick Road  
कोलकाता / Kolkata-700 032

## Annexure-A

### REVISED TECHNICAL SPECIFICATION

Name of the equipment: **Mercury Intrusion Porosimeter**

#### Technical Specifications:

Sl. No	Descriptions	Low Pressure port	
1.	<b>Analytical specification</b>	Number of LP station	Number of LP station: 1 no. Minimum
		Pressure range	0.2 psi to 50 psi or wider
		Pore size range	900µm or wider
		<b>High Pressure port</b>	
		Number of HP station	Number of HP station: 1 no. Minimum
		Pressure range	20 psi to 60000 psi or wider
		Pore size range	0.0036µm or lower
2.	<b>Penetrometers/ Dilatometer (Sample Cell)</b>	Size	0.5cc -15cc
3.	<b>General features</b>	Number of Pressure sensors	Minimum 2 numbers to measure across the full pressure range
		Transducer accuracy /Pressure detection accuracy	± 1 % of full scale
		Pressure resolution	Minimum 1.5 psi at 60000 psi
		Volume measurement accuracy	± 1 % of full scale (Penetrometer stem volume)
		Sample type	Both powder and solid chunk ( max dimension 25mm X 25mm or 12mm X 46mm)
4.	<b>Vacuum Pump</b>	Suitable to meet required vacuum level	
5	<b>Safety features</b>	Emergency stop button	Emergency stop button must be provided.
		Mercury Handling	a) Mercury spill tray
			b) Mercury vapour trap filter or cold trap must be provided
6.	<b>Output and Software features</b>	Software Data reduction Evaluation	Software must be based on Windows 10 or higher, support manual mode operation facility to control both Low and High pressure operation through software, Penetrometer

		& Report format	calibration, Blank cell correction file call facility. Raw data must be accessible for re evaluation, compressibility, data overlay .
			Report format generation for Pore volume( cumulative, Incremental and Differential , both graph and table), Pore Size distribution (cumulative, Incremental and Differential, both graph and table), Standard Summary, Percent porosity, Specific surface area, Skeletal, bulk and apparent density, Fractal dimension, Tortuosity, Permeability .
			Report should be extracted in .txt, .csv, .pdf format
7	<b>Computer:</b>	Computer system with Processor: i5 or higher, OS: Win 10 Pro or higher RAM: 16GB, HDD: 1TBGB SSD, DVD R-W, Optical mouse, Key board, Licensed MS windows and office loaded, 19.5" monitor full HD,	
8.	<b>Printer</b>	Colour laser printer	
9.	<b>Penetrometer/ Dilatometer (Sample Cell)</b>	With any stem volume in the range 0.5cc-15cc: 10 numbers.	
10.	<b>SRM/ CRM</b>	2 numbers standard reference materials to measure high and low pore size range.	
11.	<b>Mercury</b>	Minimum 5 Kg	
12.	<b>Hydraulic oil</b>	Minimum 1 gallon	
13..	<b>Warranty</b>	12 months and 24 months extended warranty from the date of successful installation	
14.	<b>Power supply available purchaser's site</b>	Input power : Single phase 230V, 50 Hz AC (3 phase 400±20 V, AC, 50 Hz)	
15	<b>Installation &amp; Commissioning</b>	Installation and commissioning must be done at the purchaser's site by expert engineers of the supplier.	
16	<b>Training</b>	Operation and maintenance training must be provided at the CSIR-CGCRI in Kolkata of 5 personal for 5days by expert engineers of the supplier.	
17	<b>Acceptance</b>	Equipment acceptance is contingent on successful installation and commissioning, as well as demonstration of full system performance in accordance with the purchase order specifications, at CSIR-CGCRI in Kolkata. The pore size distribution and other parameters should match those specified in the SRM or CRM data sheet.	
18	<b>Manufacturer Experience</b>	Vendors must have supplied identical equipment/instruments to government/reputed organizations in India for at least three in the previous five years. The same must be supported by a user list with contact information.	
19	<b>After sales service support</b>	The company must give an assurance certificate for after-sales service assistance and spare parts availability for a minimum of 5 years from the installation date.	

*[Handwritten signature]*

20	<b>Utilities</b>	In the bid, the vendor must explicitly explain the utilities necessary, such as power, space, installation environment, plan layout, LN2, and so on, to ensure successful installation and commissioning and smooth functioning of the equipment/instrument.
21	<b>Supporting documents</b>	The bidder must include complete technical specifications for the supplied equipment/instruments in their technical bid, which must be accompanied by a document such as a technical brochure, catalogue, factory data sheet, or comparable.
22	<b>Compliance statement</b>	The bidder must submit a technical compliance statement in tabular format together with the technical bid, indicating compliance of the bid's technical specifications against each technical specification of the bid, as well as any deviations, if any.
23	<b>Others</b>	If not specified, all necessary accessories and consumables for operating the given system must be quoted.