

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

REFERENCE NO. :- P/NC/40/SR/DR/GTE/21-22

DATE: 02/02/2022

NAME OF EQUIPMENT: AUTOMATIC PLASMA ETCHING SYSTEM

CONSEQUENT TO THE PRE-BID MEETING HELD ON 31/01/2022, THE REVISED SPECIFICATION OF “**AUTOMATIC PLASMA ETCHING SYSTEM**” IS GIVEN BELOW:

Automated Plasma Etching System	Qty.
<u>Detailed Technical Specifications</u>	
1. Vacuum chamber material: Austenitic Stainless steel (SS 304 or SS 316L), Aluminium, Aluminium Alloy or Borosilicate glass	
2. Vacuum chamber size: Minimum 200 mm in each dimension	
3. Vacuum pump: Oil-free, scroll-type vacuum pump of reputed make (e.g. Leybold GmbH, Pfeiffer Vacuum GmbH, Anest Iwata, Inc. etc). Pumping capacity: Minimum 5 m ³ /h (83 L/min)	
4. Vacuum Gauge: Pirani pressure sensor including power supply	
5. Plasma Generator: Continuously variable power supply; Minimum range: 0 – 200 W; Minimum Frequency: 40 kHz	
6. Gas control system: 2 Nos. of Digital Mass Flow Controllers (MFC) of reputed make (e.g. MKS, Alicat, Aalborg etc.) MFCs must be calibrated for Ar and O ₂ gases (0 – 50 sccm). Connectors: Swagelok ¼ inch compression fitting connectors.	01 set
7. Control System: Microprocessor-controlled system with user-friendly interface. Desktop Computer of reputed make (e.g. DELL, Lonovo etc.) for process sequencing and recipe storage. Specifications for Desktop Computer: (1) Processor: 10 th Gen Intel® Core™ i5-10400 processor, (2) RAM: 8GB, (3) HDD: 1TB 7200RPM, (4) OS: Windows 11 Home, (5) Monitor: Minimum 21.5 inch Full HD 1920 x 1080 resolution, (6) Mouse and Keypad	
8. Electrical Power : 220 – 230 Volt AC, 50 Hz	
9. Installation and Training: Installation should be carried out at CSIR-CGCRI, Kolkata, at free of cost. Installation Certificate will be signed only after satisfactory demonstration of the claimed specifications. Training for at least 2 personnel for a minimum of 2 days should be included.	
10. Warranty: 1 year from the date of installation	

<p>Notes:</p> <ol style="list-style-type: none"> 1. <i>The major specifications quoted in the technical bid should be substantiated with company printed product literature / brochure / datasheet / manual etc. without which the bid may not be accepted.</i> 2. <i>System performance is to be substantiated by experimental data and/or referring to the publications in international journals, where results from the quoted system or its equivalent from the same OEM has been published.</i> 3. <i>The claimed specifications are to be demonstrated during training and installation, by the OEM or its authorized agent, as a mandatory criterion before release of the full payment.</i> 	
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The above amendments shall amount to amendments of the relevant terms of our Bid Document for CGCRI Tender No. **P/NC/40/SR/DR/GTE/21-22**.

All the other Tender terms remain unchanged.

21/12/2021 02-02-2022

(Anjani Kr. Pandey)
Stores & Purchase Officer
For & on behalf of CSIR

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अंजनी कुमार पाण्डेय/Anjani Kumar Pandey
भण्डार एवं क्रय अधिकारी/Stores & Purchase Officer
सीएसआईआर - केन्द्रीय काँच एवं सिरामिक अनुसंधान संस्थान
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