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GST No.32AAAJI0299R1ZS

Date: 15 Apr 2020

**CORRIGENDUM TO TENDER No
IISER/PUR/1547/RN /SB/19-20**

**Sub: Dual Chamber Glow Discharge Unit
Ref: Tender ID -2019_IISRT_ 545204_2**

Due to the non-receipt of competitive bids, the above-referred tender is retendered along with revised technical specifications.

The new dates are as follows.

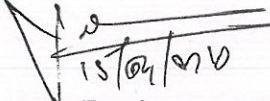
Due date of Tender: 11 May 2020 [03.00 P.M]

Date of opening of bids: 12 May 2020 [03.30 P.M]

All other Terms and Conditions remains same.

Thanking You,

Yours Faithfully


Deputy Registrar [P&S]

Technical Specifications for Dual Chamber Glow Discharge Unit

1. Glow discharge unit should primarily be able to do the surface modification of carbon support films on TEM Grids.
2. A compact unit with two independent vacuum chambers. One chamber typically for treating TEM carbon support films in air "clean" application and another "vapour" chamber for treating the TEM support films with volatile additives like Methanol/Alkylamine (eg. Pentylamine) to be added into the chamber during the glow discharge.
3. The equipment needs to be functional for cleaning the TEM grids, and supportive for hydrophilic/hydrophobic and negative/positive modes. The chambers should be able to produce positive and negative charge for both hydrophilic and hydrophobic surfaces separately without any cross contamination.
4. Should be easy to load sample, fully automatic and give rapid and reliable results.
5. It should have Safe, easy and convenient vapor (reagents supply) delivery facility.
6. Should provide Dual Stage rotary Vacuum pump with minimum requirements: 3.6 m³/hr, 40 L/m, ultimate vacuum of at least 0.02 mbar, Working vacuum range should include the range ~ 0.1 - 1 mbar.
7. Fully digital controlled device with plasma current 0 – 30 mA or better and should have data logging capability.
8. Process time for the Plasma should be 1-900 seconds or more.
9. Vacuum control should be Pirani guage
10. It should have stainless steel vacuum hose with Inlet KF 16 flange
11. It should have filtered Inlets to minimize particle/dust contamination
12. It should have controlled venting for preventing sample disturbances.
13. The chamber size should be at least "90 mm x 90 mm or more (Width x Depth) OR 90 mm or more in diameter", and 90 mm or more (Height).
14. The complete system should be compatible with Indian power supply system (230V and 50Hz) and power plugs should be suitable for Indian standard power sockets.
15. Should supply spares of oil-mist filter of vacuum pump, Vacuum gaskets, O-rings and washers of whole system, vacuum tube connecting clamps and fuses along with any other required spares required to run the system.



16. Complete installation setup should be provided with user manual and technical service manual and support.

17. Please provide the complete list of materials, instrument parts, spare parts (with part number and use) and all accessories that you are offering along with the instrument. Should attach separate sheet of detailed quote for items with part number / catalogue number/ordering number/ third party items as per the offered price (For the items in Quoted amount in BoQ sheet)

18. Post installation demonstration and training to staffs and students will be the responsibility of the vendor.

19. Should provide the latest model from the OEM, compliance sheet for all specification should be attached. Where ever relevant, the appropriate section/page number of technical brochure / manual should be cited. Should attach the document to support the claim.

20. Should have a good track record of service for the offered equipment or similar equipment in the last 3 years. The firm should provide the list of services provided in the last 3 years service period.

21. Should provide Standard instrument warranty for 3 years. Firm should provide the list of spares and accessories that are included in the warranty and should also provide the list of spares and accessories that are not included in the warranty. Company should quote the prices of spares and accessories that are not included in warranty.

