

राष्ट्रीय औषधीय शिक्षा तथा अनुसंधान संस्थान गुवाहाटी

NATIONAL INSTITUTE OF PHARMACEUTICAL EDUCATION AND RESEARCH GUWAHATI

Department of Pharmaceuticals, Ministry of Chemicals and Fertilizers, Govt. of India)
SilaKatamur (Halugurisuk), P.O.: Changsari, Dist: Kamrup, Assam, Pin: 781101.

Item Description: bet Analyzer

Reference No: NIPER-G/162/EQP/Bet Analyzer/2020-21 dated: 25.02.. 2021

With reference to the tender enquiry No: NIPER-G/162/EQP/Bet Analyze/2020-21 dated: 25.02. 2021 NIPER-G has been invited open tender enquiry for the procurement of Bet Analyzer. The following point has been discussed during the pre-bid meeting held on 02.03.2021 and the necessary amendment has been made in the tender document. Bidders are here by requested to quote the bids accordingly.

Automatic Multipoint BET Surface Area Analyzer (Unit: 01)

Require a fully automated Instrument for BET Surface Area, Pore Size & distribution with the following specifications:

S. No.	Major headings	Details specifications	Amendment if any
1.	Measurement	i. Surface area and pore size, B.E.T., STSA, adsorption isotherm, desorption isotherm	No change
2.		ii. Performs fully automated multi-point B.E.T. analysis in as little as eight minutes.	Performs fully automated multi-point B.E.T. analysis preferably less than 20 minutes
3.	Sample Analysis stations:	i. System should have Two stations for simultaneous operation with dedicated glass Po cell and transducer.	No change
4.		ii. Should be able to analyze up to 2000 data points (1000 adsorption points and 1000 desorption points).	No change
5.	Sample Preparation	Prepare four samples by vacuum and/or flow method simultaneously with sample analysis for maximum throughput	No change
6.	Surface area range	0.01 m ² / g to no known upper limit	No change
7.	Pore size range	0.35 to 500 nm (3.5 to 5000 Å)	No change
8.	Minimum pore volume (liquid)	2.2 x 10 ⁻⁶ ml / g	No change
9.	Degassing	System should have 4 degassing ports built into the system	System should have 4 degassing ports external/ built into the system.
10.	Dewar life capacity	Dewar should be of at least 2L and should run for more than 40 hours in one refill.	Dewar should be of at least 2L and should run at least 30 hrs or more in one refill.
11.	Degas Temperature range	Ambient to 350°C or better, 1°C intervals with programmable heating protocols Multi-step ramp rates / hold times. The Heating mantles should have dual, independent thermocouples for over-temperature safety and they should be supported by retractable tethers to eliminate hot metal clips for ease of use.	No change
12.	Adsorbates & other required items	Nitrogen or any other non-corrosive gas. The system should be supplied along with the appropriate vacuum pump and standard reference materials as a package	No change
13.	Cryogen Level Control	Should have Automatic coolant level control mechanism for precise void volume control and minimize the cold zone volume	No change

		to yield high accuracy data	
14.	Instrument control:	The whole system should be able to run through external PC and suitable data reduction software, to be supplied along with the instrument. Capable to run and view the data on the fly on the instrument touch screen should also be available. The software should be able to record the entire degassing protocol (including each temperature ramp and soak step) and then link that to the analysis data file when the sample is analyzed, for a complete profile of the analysis parameters from pretreatment to analysis to data reduction.	The whole system should be able to run through external PC and suitable data reduction software, to be supplied along with the instrument. The software should be able to record the entire degassing protocol (including each temperature ramp and soak step) and then link that to the analysis data file when the sample is analyzed, for a complete profile of the analysis parameters from pretreatment to analysis to data reduction.
15.		Should operate on 230 V, 50 Hz	No change
16.	Warranty	3 years warranty from the date of installation & commissioning.	No change
17.	Installation & Training	Complete training on the operation, maintenance, software handling should be provided free of cost to the user group during the installation & commissioning of the system	No change
18.	Vendor Qualification Criteria	The vendor must have supplied at least 10 similar system to other Indian prominent government laboratories. The list of such installations must be attached along with the offer as a minimum qualification criteria. They should have proper service set up in India and in Guwahati. It's expected that the vendor should have local application lab to assist us for any application related jobs.	No change
19.	Gas Cylinders	Vendor should supply N2 and He Gas Cylinders with Double stage Regulators	No change
20.	PC	Should quote suitable PC- i5 Processor, 8 GB RAM, 500 GB HDD, 18.5'' LED display	No change

The due date for Submission of tender documents is 18.03.2021 at 2:00PM

The other terms and conditions remain same as mentioned in the tender document.

Sd/

Stores and Purchase officer

Sd/-

ReGISTRAR Incharge