



**INDIAN INSTITUTE OF SCIENCE EDUCATION AND
RESEARCH THIRUVANANTHAPURAM [IISERTVM]**

PH.-0471 2778019,
EMAIL: purchasestores@iisertvm.ac.in

MARUTHAMALA.P.O VITHURA, P.O
THIRUVANANTHAPURAM 695551,
KERALA, INDIA
GST No.32AAAJI0299R1ZS

Date: 18 Nov 2022

RETENDER CORRIGENDUM TO TENDER NO

No.: IISER/PUR/0575/KMS/CIL/SC/22-23

Sub: Supply and Installation of Simultaneous TGA/DSC/DTA SYSTEM: reg

Ref: Tender Enquiry No. 2022_IISRT_717788_1

1. The above mentioned tender is re-tendered herewith with revised technical specification sheet placed at annexure 1 of this corrigendum.
2. The revised dates for submission of bids and date of opening are as follows:-

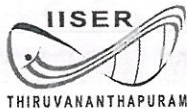
Due Date: 7 Dec 2022 (3PM)

Date of Opening: 8 Dec 2022 (3:30 PM)

Thanking You,

Yours Faithfully


Deputy Registrar (P&S)



Technical specification for the Simultaneous TGA/DSC/DTA SYSTEM

Simultaneous Thermal Analysis System consisting of TGA and DSC for Heat Capacity Measurements for samples like organic materials, inorganic materials, ceramics, etc. The units should be able to measure phase transitions, enthalpy or heat of fusion, Thermal stability, percentage composition, residue analysis etc. The system having Modulated DSC capability for accurate heat capacity measurements is desirable.

Temperature Range: ambient to 1100 °C or more.

Temperature Calibration: Up to 5 pts

Temperature Repeatability: $\pm 0.1^\circ\text{C}$, based on metal standards

Thermocouples: Platinum/Platinum-Rhodium (Type R or S)

Symmetrical Design: With sample & reference.

Balance design: Top loading

Weight measurements: Capable to measure sample & reference mass independently.

Furnace windings: Platinum Alloy or other MOC furnace

Balance Sensitivity/resolution: 0.2 microgram or lower

Dual TGA Capability: Built-in

The built-in TGA should be of high resolution with Dynamic Heating rate

Built-in Modulated DSC: preferable

Heating rates from: 0.1 to 50°C/min

DSC/DTA Sensitivity: 4 Microwatts/microvolts

Balance Drift: Less than 75 micro gram (rt to 1100 °C)

Calorimetric Accuracy: $\pm 3\%$ or better (based on metal standards)

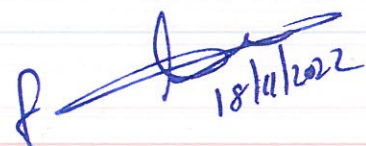
Calorimetric Precision: $\pm 2\%$ or better (based on metal standards)

Gas Switching & MFC for Two gases: Built-in

Sample Capacity : 200 mg or more

Vacuum capability: preferable

The equipment that can make measurements under various purge gases like nitrogen, argon, air, oxygen etc would be a desirable. The specifications of MFC and the furnace life time may be mentioned in the quote.


18/10/2022