

सी.एस.आई.आर - हिमालय जैव संपदा प्रौद्योगिकी संस्थान

CSIR-INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY

(वैज्ञानिकतथाऔद्योगिकअनुसंधानपरिषद्/ Council of Scientific & Industrial Research

पोस्ट बॉक्स नं.-06, पालमपुर-176061 / Post Box No.06, Palampur-176061 (हिमाचल प्रदेश/Himachal Pradesh), भारत/India

EMAIL: spo@ihbt.res.in, Phone: 91-1894-230425, ईमेल/e-mail: spo@ihbt.res.in,



MINUTES OF PRE-BID CONFERENCE HELD ON 10.12.2024

No.4/5(34)24-Pur

Dated December 13, 2024

Tender Ref.No.4/5(34)24-Pur

Ref: Tender ID 2024_CSIR_216856_1 dated 29.11.2024

Tender Title: Global Tender for Thermogravimetric Analyzer (TGA)

Work Description: Supply and Installation of Thermogravimetric Analyzer (TGA)

The Pre-Bid meeting for supply and installation of Thermogravimetric Analyzer (TGA) scheduled on 10-12-2024 did not witness physical participation from any firms. However, two firms submitted their queries via email. The queries have been addressed and two points in the technical specifications have been revised.

Detailed revised specifications are attached herewith.

All prospective bidders may please note and submit their offers as per the revised specifications only.

Sanjay Rawat) Stores & Purchase & Purchase

Revised Specifications of Thermogravimetric Analyzer (TGA) after Prebid meeting

Basic Unit Specifications

& Balance

- 1. **Design:** A vertical / horizontal design high ultra sensitivity balance.
- 2. **Protection:** The balance should have cooling and gas protection features to stay stable and safe during operation.
- 3. Highest weighing capacity: Up to 1000 mg or better including crucible weight
- 4. Lowest weighing capacity: 1 mg or better
- 5. Resolution: 1 ug or better.
- 6. **Precision:** $\pm 0.01\%$ or better
- 7. Blank curve reproducibility or weight baseline drift: better than \pm 25 μg for whole temperature range.

Temperature

- 8. Temperature Range: Ambient to 900 °C or better
- 9. Heating Rate Range: 0.1 to 80°C/min or higher
- 10. Temperature Accuracy: ±1°C/K or better
- 11. Temperature Precision: ±0.5°C/K or better
- 12. Furnace cooling: 900°C to 100°C in < 30 min or better

Crucible

- 13. Sample crucible volume: Must be able to hold upto 1g or better including its own weight.
- 14. The TGA should be supplied with the sample crucible made of Pt-pan (4 Qty) & Ceramic-pan (20 Qty)

❖ Software control

15. TGA should have a software-controlled mass flow controllers with automated gas switching and the in-build mass flow controller in the TGA

* Computer, printer and UPS

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- 16. A suitable configuration of the PC/ Laptop with latest windows i-7/mac OS, 16GB RAM, 1 TB SSD, latest operating system must be supplied along with the TGA for the operational & data analysis.
- 17. One unit of Color Laser Printer with facility to print (both sides automatically), scan, photostat.
- 18. One unit of 5 KVA UPS (Uninterrupted Power Supply) with a minimum 30 minutes backtime should be supplied along with the TGA.

Warranty and Certification

- 19. The TGA should be supplied with a minimum one-year comprehensive warranty from the date of installation.
- 20. Instrument must be supplied with NABL/ILAC/APAC certified calibration or better with respect to specified parameters after installation.

Nitrogen gas generator

A suitable nitrogen gas generator should be supplied along with TGA having:

21. Nitrogen Purity: ≥99.9995% or better.

22. Flow rate: ≥ 250 ml/min or better.

23. Supply Pressure: 80 psi or better.

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Summary on points of discussion after Prebid meeting

| S.No. | Tender specification | Revised Specification |
|-------|--|--|
| 3 | Highest weighing capacity: Up to 1000 mg or better | Highest weighing capacity: Up to 1000 mg or better including crucible weight |
| 13 | Sample crucible volume: Must be able to hold upto 1g or better | Sample crucible volume: Must be able to hold upto 1g or better including its own weight. |

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