

# TATA INSTITUTE OF FUNDAMENTAL RESEARCH

Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District.  
Hyderabad - 500 107, Telangana, India.

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Date: 11-03-2020

## Notice Inviting Tender cum Tender Document (Two Part Public Tender) for the following items:

**Supply, Installation, Commissioning of Thermogravimetric Analysis (TGA)  
Instrument With High Resolution and Modulated Specifications for TIFR  
Hyderabad.**

As per our technical specifications: Qty. – 1 No.

Public Tender No.	TFR/PD/IC19-25/19025
Published on	12-03-2020
Tender Fees	For Indian Supplier - Rs. 700/- For Foreign Supplier-USD 100
EMD	For Indian Supplier - Rs. 4,00,000/- For Foreign Supplier - USD 5607
Estimated Cost (Estimated cost upto TIFR, Hyderabad inclusive of all applicable charges)	Rs. 2 Crore
Last Date for Submission of Bid	07-04-2020 upto 13.00 Hrs.
Date of Opening Bids(Part A)	07-04-2020 at 15.00 Hrs.

**Both Technical Bid (Part A) and Financial Bid (Part B)** to be submitted within the due date and time in separate envelopes and marked on top as Part A and Part B. These two sealed envelopes should be further put in one Master Envelope super scribed with the Tender No., Due Date in Bold Letters.

Please see attached sheet for conditions of tender.

Note: All future corrigendum/addendum will be published in TIFR Hyderabad website only.  
All prospective bidders are requested to visit our website regularly for any such updates/Corrigendum/Addendum.

**ADMINISTRATIVE OFFICER  
(PURCHASE SECTION)  
TIFR, HYDERABAD**

## SCOPE OF SUPPLY – Annexure A

### Technical Specifications for Supply, Installation, Commissioning of Thermogravimetric Analysis (TGA) Instrument With High Resolution and Modulated Specifications for TIFR Hyderabad.

#### Technical Requirements and Specifications:

The TGA should meet or exceed the following technical specifications when evaluated as described for each value:

**Sample Weight Capacity: 1000 mg**

**Dynamic Weighing Range: 1000 mg**

**Weighing Precision:  $\pm 0.01\%$**

**Dynamic Baseline Drift (50 to 1,000 °C):  $<25 \mu\text{g}$ , with platinum pans**

*Defined as the maximum deviation from the smallest measured weight to the largest measured weight of an empty platinum pan, while being heated at  $20^\circ\text{C}/\text{min}$  in flowing nitrogen atmosphere (without any blank subtraction applied)*

**Signal Resolution:  $0.002\mu\text{g}$**

*Defined as the smallest measurable difference between two adjacent values*

**Sensitivity:  $0.1 \mu\text{g}$  (1 ppm)**

*Defined as 3X the average rms noise over the temperature range 50 to  $1,000^\circ\text{C}$*

**Temperature Range: ambient to  $1000^\circ\text{C}$**

*Defined as the measured temperature at the sample thermocouple (not furnace temperature or programmed temperature)*

**Temperature Accuracy:  $\pm 1^\circ\text{C}$**

*Defined as the standard deviation of the measured error (at least 10 replicate runs after temperature calibration) of the onset temperature of a nickel Curie Point measured at  $10^\circ\text{C}/\text{min}$ , removing and replacing the sample in between each run*

**Dynamic Temperature Precision:  $\pm 1^\circ\text{C}$**

*Defined as the standard deviation of the measured Curie Point temperature of at least 10 nickel runs, removing and replacing the sample in between each run*

**Isothermal Temperature Precision:  $\pm 0.1^\circ\text{C}$**

**Linear Heating Rates:**

**0.1 to  $100^\circ\text{C}/\text{min}$  in  $0.01^\circ\text{C}/\text{min}$  increments (Wire-Wound furnace)**

**0.1 to  $50^\circ\text{C}/\text{min}$  in  $0.01^\circ\text{C}/\text{min}$  increments (EGA furnace) in case going for Evolve**

**Gas Analysis**

**Ballistic Heating  $> 600^\circ\text{C}/\text{min}$**

**Furnace Cooling: Forced Air  $1000^\circ\text{C}$  to  $50^\circ\text{C}$  in  $< 12 \text{ min}$ .**

## ***Instrument Design***

ThermoBalance Design: Symmetric Vertical Hang-down

Furnace type: Either a wire-wound, low mass ceramic furnace or a quartz-lined evolved gas analysis furnace. The wire-wound furnace comes as a standard part. The EGA furnace should be optional accessory.

Gas Delivery Manifold: Integrated purge gas delivery control accommodating two simultaneously installed gases. This capability must be incorporated into the instrument (*i.e.* shall not be a separate unit). Purge gas flow rate must be programmable within operating software, and deliverable as a saved signal in the data file. Gas delivery control must also allow for automated switching between the gases during an experiment. An optional accessory will allow blending of binary mixtures of gases in controllable ratios.

Autoloader : The instrument must Load and Unload the pan using Autoloader and the user must not touch the Balance beam or Hang down Wire while placing the sample Pan on TGA. If the Autoloader is not available the vendor has to quote Autosampler to make it automatic loading and Loading.

## ***Instrument Features***

TGA must be compatible with multiple furnace types, including but not limited to the following:

- Wire-wound, low mass ceramic furnace
- Quartz-lined evolved-gas analysis furnace( for Evolved Gas and connecting to Mass Spec) to be quoted as Optional

The TGA shall include Hi-Res TGA as described in section below.

The TGA shall include Modulated TGA as described in section below.

The TGA must be easily interfaced to a Mass Spectrometer and to be quoted in Optional.

The TGA must employ horizontal purge gas flow to minimize buoyancy effects from purge gas and for direct output to off gas analysis.

The TGA shall include high-sensitivity thermobalance, as described below.

A reactive gas inlet allows for reactive gases to be introduced to the sample without contamination of the balance.

The TGA shall include DTA data in degrees Celsius.

The TGA must include touch screen capable of recalling and running preprogrammed methods, loading, taring, and monitoring running experiment.

The TGA must demonstrate the ability to continuously measure sample weight loss of up to 1g.

The TGA must employ single thermocouple design with continuous use of the measured sample temperature to control the furnace so as to minimize thermal lag.

The TGA must employ horizontal purge gas flow to minimize buoyancy effects from purge gas and for direct output to off gas analysis.

The TGA must employ push button automatic loading and unloading of sample pan. Operator does not have to hang pan or place the pan on Balance beam or on wire in normal use.

The TGA must demonstrate ability to have up to five points for temperature calibration to provide greater temperature accuracy over wide temperature ranges. It must be capable of melting point calibrations (with optional DTA signal) as well as Curie Point temperatures with an external magnet.

### ***Thermo balance***

The TGA must employ a vertical null-balance design for accurate, precise and reliable weighing of samples. It must be well insulated, electrically grounded, separately gas purged, and thermally isolated from the furnace. This is essential for high performance baseline performance.

### ***Furnace***

The furnace design should include a horizontal gas purge system using Gas Delivery Module to provide highly accurate and precise control purge gas flow rate and gas switching capability. The system software should include automatic buoyancy corrections for temperature and gas flow rate.

The combined thermobalance and EGA furnace should be capable of operating in vacuum of 50  $\mu$ Torr. Must be quoted in Optional items

### ***Software***

The TGA must include operating software which allows for the instrument to be fully calibrated and verified automatically. Calibrations must include weight and temperature.

The data analysis software should be unkeyed, to allow for unlimited installations within one site. The data file format should easily allow sharing/transfer of data files as individual electronic documents, which are readable by the same data analysis package. The data analysis program should also include a .pdf generator, for the efficient export of analyzed plots.

### ***High Resolution TGA***

Hi-Res TGA defined as an advanced heater control technology to optimize weight loss resolution using the following (3) modes. All modes should be used to separate overlapping transitions.

- 1) Dynamic Heating Rate to automatically and continuously change heating rate as a function of decomposition (sample weight loss).
- 2) Constant Reaction Rate to automatically and continuously change heating rate to achieve a pre-determined rate of sample decomposition expressed in %/min.
- 3) Stepwise Isothermal to automatically change from heating to an isothermal hold when pre-selected limits of weight loss in %/min are met.

### ***Modulated TGA***

- The ability to apply sinusoidal temperature wave to a sample. Amplitude of sine wave  $\pm 0.01$  to  $10^{\circ}\text{C}$ ; period from 100 to 1000 seconds.
- Should Calculate and display the following kinetic parameters of decomposition on a continuous basis in real time,
  - Activation energy (kJ/mol) in a single run.

- Log (Pre-exponential factor) (1/min)
- ln (rate ratio)
- Weight amplitude (mg/min)
- Modulated Temp (°C).

- Deliver the above kinetic parameters of decomposition in a single scan (data file); no need for multiple scans.
- Should be used with the Hi-Res (variable heating rate) temperature programs so as to reduce test time:

### ***Various Features***

Ability to abort a test and/or segment in a test when operator specified conditions are met.

Vertical balance design with automated furnace closing and experiment initiation in one keystroke.

Must have local control at the module including experiment start/stop and real-time display of sample temperature and experiment status.

Automatic recording of initial sample weight.

Automated push button taring. One button push to load pan, raise furnace, tare pan, and unload pan.

Ability to continue a run when disconnected from the computer/controller.

Ability to use pans up to 250 µl volume so as to fit larger samples on the thermobalance.

Ability to store calibration constants in module memory.

Compatible PC and 3 KVA UPS to be quoted. The instrument must include minimum 3 Platinum re-usable Pan

### **Optional Mass Spectrometer:**

Quadrupole Mass Spectrometer should be a benchtop, quadrupole mass spectrometer designed for chemical analysis of all gases evolved during thermogravimetric analysis experiments.. It should be compatible with the TGA . The spectrometer must include a 1.8m heated (300°C) stainless steel capillary for efficient transfer of gas products from the TGA furnace/reactor to the MS. Parts per billion (ppb) sensitivity over the mass range 1-300 amu (gas dependent) should be achieved with a state-of-the-art quadrupole detection system, including a closed ion source, a triple mass filter and a dual (Faraday and Secondary Electron Multiplier) detector system to optimize sensitivity long term stability performance. Control of the experimental parameters and analysis of the mass spectral data should be achieved through a user-friendly, recipe-driven Windows® software interface . Data collection should be triggered directly from the TGA software, and the resulting MS data (trend scans) should be combined directly for overlaying with the corresponding TGA results.

The Mass Spectrometer must be CE, CAN/CSA and NRTL complaint.

Interface Kit: A kit to interface the TGA to the Mass Spectrometer. The kit must include a clamping system to support the mass spec transfer line, a heated connection (200°C) to eliminate potential "cold spots" at the interface of the transfer line and the exit tube of the TGA furnace, and other appropriate fittings. An event triggering cable must also be included.

Wiley / NIST Mass Spectrometer Library: Used for identification of unknown samples based upon software comparison of their mass spectrometry ionization cracking pattern with that of known individual materials must be quoted.

Specifications of Mass Spec:

Mass range : 1-300 amu

Mass Resolution : > 0.5 amu

Sensitivity > 10 ppb

Ionization : EI ( Electronic Ionization)

Detector System : Faraday and Microchannel Plate ( MCP)

Data Collection Modes : Bar graph and Peak Jump

Transfer line Temperature : 300 Degree C ( Fixed)

Transfer line length : 2meters Fixed

Filaments : Dual, Customer Changeable

Capillary : 0.22 mm, Customer Changeable

Data Collection : Must be Controlled by TGA Trigger

Software : Must Interface with TGA Software , Must contain export program to convert Bar graph scans to Wiley / NIST to Library format.

**NOTE:**

- 1. The bidder should attach the point by point technical specification provided in the tender in a tabulation format and fill the technical compliance (with additional remarks if any) along with the bid.**
- 2. The bidder should ensure the following:**
  - A. Earnest Money Deposit (EMD), tender fee submission.**
  - B. Attachment of Annexure – B (Audited Annual Turnover Certified by CA).**
  - C. Attachment of Annexure – C (Supplier order details with copy document) along with the bid as per tender terms & conditions.**

## **Audited Annual Turnover**

### **Annexure – B**

<b>S.No.</b>	<b>Financial/ Accounting Year</b>	<b>Profit (Rs.)</b>	<b>Loss (Rs.)</b>	<b>Annual Turnover (in INR)</b>
1.				
2.				
3.				

**Authorized Signatory with Seal**

**Note:**

**This Audited Annual Turnover (Annexure – B) for the last 3 years should be certified by Chartered Accountant (CA) as per the format given above duly signed and stamped by the CA on their letterhead.**

**Supply Order Details of Thermogravimetric Analysis (TGA) Instrument With High Resolution and Modulated Specifications to Other Firms.**

## **Annexure – C**

S.No.	Name of the company with full address	Name of the Project	Purchase Order No. & Date	Brief Item Description with Model No.	Item Value in Currency
Signature					
Name					
Designation					
Name of the Company					
Date					
Seal of the Company					

**NOTE:**

**Please attach the copy documents / purchase order copy for the above mentioned details.**

# **TATA INSTITUTE OF FUNDAMENTAL RESEARCH**

## **Centre for Interdisciplinary Sciences**

Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District.

Hyderabad - 500 107, Telangana, India.

### **(PURCHASE SECTION)**

1. **PART “A” (Technical Bid) consisting of Technical Bid with Commercial Terms and PART “B” (Financial Bid) consisting of only Price** shall be submitted in **separate** sealed envelopes duly superscribed with the tender enquiry number, and the due date in bold letters, addressed to the Administrative Officer, Tata Institute of Fundamental Research, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The envelopes should be clearly marked on top as either PART “A” or PART “B”.

The two sealed covers should be further put in a master cover superscribed with the Tender Enquiry No., Due Date in bold letters, addressed to the Purchase Officer, Tata Institute of Fundamental Research, Plot No.36/P, Gopanpally Village, Serilingampally Mandal, Ranga Reddy District. Hyderabad-500 107, Telangana, India. The sealed master envelop has to be delivered by hand/courier at the security Gate Office of TIFR, Hyderabad on or before 13.00 hrs. on the due date specified. The technical bid will be opened in the presence of attending tenderers at 15.00 hrs. on the due date at Purchase Section, TIFR, Hyderabad. Tenders submitted after 13.00 hrs. on due date will not be considered.

2. **In case the PART “A” and Part “B” bids are not sealed in separate envelopes the tender will be rejected.**
3. The technical bid should not contain any indication of the price. The bidder should take special care not to mention anything related to pricing and costing aspect of whatsoever nature. The technical bid should include/contain only technical specifications, technical literature, drawing, quantity, manufacturing and delivery schedule, mode and terms of payment, mode of dispatch, the quantum and percentage of statutory levies payable by the purchaser as extra and all related commercial terms and conditions for the supply and for the services like erection and commissioning to be rendered by the tenderer. The details of the validity of the tender should also be indicated along with the commercial details.
4. After scrutiny of Technical Bids, Financial bids of only those bidders who are shortlisted on technical basis will be opened at on later date. The opening date, time and venue will be intimated to the technically successful bidder.
5. **All the bidders/contractors should provide Company Authorization Letter duly signed and stamped by Competent Authority to participate in the tender related meetings at TIFR Hyderabad.**

## **6. Tender Document Fee:**

- a. For Indian Supplier: Tender fee for Rs. 700/- (Non-refundable) in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part - A).
- b. For Foreign Supplier: Tender fee of USD 100 (Non-refundable) in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part A).

## **7. Earnest Money Deposit (EMD):**

- a. For Indian Supplier: Earnest Money Deposit (EMD) for Rs. 4,00,000/-in the form of D.D. in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed along with the technical Bid (Part - A).
- b. For Foreign Supplier: Earnest Money (EMD) for USD 5607 in the form of advance cheque in favour of "TIFR Centre for Interdisciplinary Sciences", payable at Hyderabad to be enclosed with the Technical Bid (Part - A).

EMD shall be interest free and it will be refunded to the unsuccessful bidder without any interest. EMD will be forfeited if the bidder withdraws or amend impairs orderogates from the tender in any respect.

## **8. Bidders who have not accepted the job/order awarded to them or withdrawn from the tender process OR whose EMD/Security deposit has been forfeited in the past, their bids will not be considered and treated as ineligible / disqualified.**

9. After downloading the documents please inform your company details such as name, address, telephone nos., contact person and email address etc. by email to us ([purchasegroup@tifrh.res.in](mailto:purchasegroup@tifrh.res.in) , [jrathna@tifrh.res.in](mailto:jrathna@tifrh.res.in)) to enable us to inform prospective bidder for any corrigendum/changes if any; in the Tender document before due date.
10. Quotations must be valid for a period of 180 days from the due date.
11. Tenders containing correction, overwriting will not be considered. Late or delayed/Unsolicited quotations/offers shall not be considered at all. These will be returned to the firms as it is. Post tender revisions/corrections shall also not be considered.
12. Tenderer should sign on all the pages of the technical bid and the price bid.

13. The price quoted for Import item must be on following basis:
- Ex-Work/factory duly packed airworthy/seaworthy and of international standard
  - FOB/FCA
  - CIF Hyderabad, Airport Port (all-inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)

For local item /supply, offer should be on FOR basis (i.e. total landed cost for delivery at TIFR, Hyderabad).

The dimension of the item (viz. H, W, L, weight etc.) shall be specifically stated and also mention whether the mode of shipping the item is Airworthiness / Seaworthiness or both. Accordingly the mode of shipment will be decided by TIFR, Hyderabad.

**Price must be quoted in the Price Bid Format attached herewith as “Part -B” (Financial Bid).**

14. If equipment offered is to be imported, arrangements for import will be made by us.
15. Tenders who do not comply with any of the condition are liable to be rejected.
16. The Institute shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any tender without assigning any reason whatsoever.
17. TIFR reserves the right to place the order for part/reduced quantity than what is specified in the tender.
18. **Performance Security:** The Successful bidders should deposit @ 10% of Purchase Order value as Performance Security against issue of order/contract to be submitted within 15 days against issue of order/contract. The performance security shall be in the form of Demand Draft in favour of “TIFR Centre for Interdisciplinary Sciences, Hyderabad” payable at Hyderabad (or) Bank Guarantee from State Bank of India & Associates (or) any one of the Nationalized Banks.

The Performance Security will be returned back to the successful supplier on receipt of the Performance Bank Guarantee (or) The 10% Performance Security Deposit may be extended as Performance Bank Guarantee valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

**Performance Bank Guarantee:** Performance Bank Guarantee for 10% of the value of supply should be provided and it should be valid for 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Performance Bank Guarantee should be from Nationalised Bank. In case Performance Bank Guarantee is not provided, 90% payment only would be released and balance after 60 days beyond the date of completion of all contractual obligations of the supplier including warranty period. Vendor should clearly mention their acceptance to this effect in their quote.

19. **PAYMENT TERMS:** 80% payment shall be made through irrevocable L/C on presentation and receipt of complete, clear shipping documents, against confirmation from TIFR, Hyderabad and balance 20% of the amount shall be released after successful installation, commissioning and acceptance of the equipment certified by purchaser and on submission of "Performance Bank Guarantee (PBG)" for an amount equivalent to 10% of the Purchase Order Value. The PBG shall be valid for a period of 60 days beyond the date of warranty period. The PBG should be from State Bank of India & Associates (or) any one of the Nationalized Banks.

20. **PAYMENT TERMS FOR INDIGENOUS ITEMS:** 100% payment shall be released after receipt, installation, commissioning and acceptance of the equipment.

21. Repair / replacement if required any during the warranty period, necessary customs clearance charges / customs duty charges, freight charges for sending back the repair material to supplier and import freight charges of replacement should be borne by the supplier.

22. For Import cases: No Agency commission will be paid as per Govt. of India rules.

23. All bank charges outside India to supplier's account only.

24. TIFR is exempted from paying of Custom Duty under the notification No.51/96 dated 23.07.1996, Excise Duty under the notification No.10/97 dated 01.03.1997, for all procurements/supply meant exclusively for Educational, scientific and research purpose. Whenever the exemption certificate not honored by the authorities, the applicable duty will have to be paid. Hence Excise & Custom duties, if any, should be shown separately.

TIFR is a public funded research institute and is entitled to concessional rate of GST @ 5% for certain items supplied for research purpose vide notification no. 45/2017 (CGST) and 45/2017 (IGST) dated 14<sup>th</sup> Nov, 2017. The offer should be submitted after fully considering the above notification.

25. **TAXES:** TIFR does not have any exemption/concession on payment of Sales Tax and we are not authorized to issue any Sales Tax Form 'C' & 'D'.

Deduction of Indian Income Tax Deduction at Source: The Deduction of Indian Income Tax Deduction at source (TDS) will be deducted as per IT Act. The taxes at the time of actual utilization of service etc. will be deducted if applicable any.

GST rule will be applicable with effect from 01.07.2017. The applicable TDS /other charges if any as per GST rule will be deducted as per new GST regime.

TIFR-Hyderabad GST NO: 36AAATT3951F2ZG.

26. Bidders, please provide the PAN No., Bank Details, email ID, Contact person details, GST No etc.

**27. The Supplier shall arrange to ship the ordered materials within the mutually agreed delivery period mentioned in the order unless extended with/without penalty. Please mention the Delivery Period Clearly in the Bid, however effort to be taken to deliver the materials at the earliest.**

- a. In case of delay in supply on part of the supplier, a penalty @0.5% per week of order value will be charged for delayed period subject to a maximum of 10% order value.
- b. If the delay in the shipment of the ordered materials attributable to the supplier exceeds agreed time period from the date of original agreed upon date of shipment and extended with/without penalty, the TIFR, Hyderabad shall have the right to cancel the contract / purchase order and recover the liquidated damages from other dues of the party or by legal means. It will also affect the other/future business dealings with such suppliers.
- c. The same rate of penalty shall be applicable for late installation of the equipment/instrument also.

**28. COMMENCEMENT OF WARRANTY PERIOD:** The warranty period of an item shall commence from the date of receipt of the item in good working condition and satisfactory installation/commissioning/demonstration at the project site.

**29. ANNUAL MAINTENANCE CHARGES:** The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period.

**30.** Specifications are basic essence of the product. It must be ensured that the offers must be strictly as per our specifications. At the same time it must be kept in mind that merely copying our specifications in the quotation shall not make the parties eligible for consideration of the quotation. A quotation has to be supported with the printed technical leaflet/literature of the quoted model of the item by the quoting party/manufacturer.

**31. OBSERVANCE OF LOCAL LAWS:** Wherever applicable (particularly for Local vendors), the vendor / contractor shall comply with all law, statutory rules & regulations etc. The vendor/ contractor shall obtain all necessary permits / approval from the local Governing Body, Police, and other concerned Authorities as may be required under law. The vendor /contractor shall pay all types of taxes, fees, license charges, deposits, duties, tolls, royalty or other charges that may be leviable account of any of the operations connected with the execution of this work/ contract.

**32.** In case of any interpretational issues arises in this tender, the interpretation/decision of TIFR Hyderabad shall be final and binding on the bidder.

33. It is the responsibility of the vendor to make sure that the system being proposed can be exported to India with TIFR Hyderabad as the end user. All clarificatory documentation must be submitted with the Bid.
34. TIFR, Hyderabad reserves the right to ask for or to provide any clarification, changes after the release of this tender. Any changes or clarifications provided by TIFR, Hyderabad may be checked at TIFR, Hyderabad website: <https://www.tifrh.res.in/index.php/commercial-tenders>

**ADMINISTRATIVE OFFICER  
(PURCHASE SECTION)  
TIFR, HYDERABAD**

# Financial Bid for Supply, Installation, Commissioning of Thermogravimetric Analysis (TGA) Instrument with High Resolution and Modulated Specifications for TIFR Hyderabad. (Part – B)

## Annexure – D

TIFR Hyderabad Enquiry No & Date: \_\_\_\_\_

Due date: \_\_\_\_\_

Bidder's Quotation Ref No. & Date: \_\_\_\_\_

Financial Bid (Bidders must quote their rates using this Format)

S.No.	Item Description as per tender	Make/Brand/ Type	Qty.	Rate per unit (Currency)	Basic Cost of main item (In Currency)
A.					
B.	Ex-Works cost (Duly packed Airworthy/Seaworthy of international standard)				
C.	FOB /FCA Cost (Name of Airport_____)				
D.	CIP/CIF Cost (Upto Hyderabad Airport)(all inclusive i.e. Cost of Goods, Packing, Insurance, Inland transportation, freight etc.)				

**Note:**

1. All the column should be appropriately filled and not left blank.
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item.
3. Any accessories, optional items should be shown separately using above format.
4. Use separate sheet for detail description, specification of the item, but prices should be quoted in same format.
5. Prices quoted in Indian Currency should be on F.O.R. basis and mentioned separately using different table format showing all the applicable taxes/Duties like GST , Freight & Transportation charges and installation charges etc.
6. TIFR Hyderabad being educational & research institute, discounted price shall be offered.

**Signature of the Bidder**

Name, Address contact no \_\_\_\_\_

& email id of the bidder/ \_\_\_\_\_

Company with company's Stamp or Seal \_\_\_\_\_

**Date:** \_\_\_\_\_

**Place:** \_\_\_\_\_

**Financial Bid for Annual Maintenance Contract for  
Thermogravimetric Analysis (TGA) Instrument with High  
Resolution and Modulated Specifications for TIFR Hyderabad.  
(Part – B)**

**Annexure – E**

TIFR Hyderabad Enquiry No & Date: \_\_\_\_\_

Due date: \_\_\_\_\_

Bidder's Quotation Ref No. & Date: \_\_\_\_\_

Financial Bid (Bidders must quote their rates using this Format)

**Note: The bidder must mention in the quotation, the rate/amount of annual maintenance charges, if we opt for maintenance contract after expiry of the warranty period.**

S.No.	AMC (for item Description as per Tender) after Warranty Period	Rate / Year In INR	Tax (%) or Amount in INR	Total Amount in INR
1.	1 <sup>st</sup> Year			
2.	2 <sup>nd</sup> Year			
3.	3 <sup>rd</sup> Year			

**Note:**

1. All the column should be appropriately filled and not left blank.
2. Do not include any other charges, taxes, duties etc. in the Basic Cost of the item.
3. Prices should be quoted in same format.
4. TIFR Hyderabad being educational & research institute, discounted price shall be offered.

**Signature of the Bidder**

Name, Address contact no \_\_\_\_\_

& email id of the bidder/ \_\_\_\_\_

Company with company's Stamp or Seal \_\_\_\_\_

**Date:** \_\_\_\_\_

**Place:** \_\_\_\_\_