



SWAMI RAMANAND TEERTH MARATHWADA UNIVERSITY,

VISHNUPURI, NANDED (MAHARASHTRA)

(Established on 17 September 1994 - Recognized by the UGC U/s 2(f) and 12(B), NAAC Re-accredited with 'B++' Grade)

ESTATE DEPARTMENT, S. R. T. M. UNIVERSITY, VISHNUPURI, NANDED-431 606

E-TENDER DOCUMENT
NO. SRTMUN/ESTATE/TGA DTA/PM-USHA/ET-09-2025

E-TENDER FOR PURCHASE OF THERMOGRAVIMETRIC ANALYSIS/ DIFFERENTIAL THERMAL ANALYSIS (TGA/DTA) UNDER PM-USHA BUDGET FOR S.R.T.M.UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

> REGISTRAR, S.R.T.M.UNIVERSITY, NANDED

FOR MORE DETAILS VISIT THE PORTAL OF https://mahatenders.gov.in or www.srtmun.ac.in



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E-TENDER FOR PURCHASE OF THERMOGRAVIMETRIC ANALYSIS/ DIFFERENTIAL THERMAL ANALYSIS (TGA/DTA) UNDER PM-USHA BUDGET FOR

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Swami Ramanand Teerth Marathwada University, Nanded

Tender No.: Estate/TGA_DTA/PM-USHA/ET-09-2025

E-TENDER NOTICE

for invites Tender S,R.T.M.University, Nanded Registrar, The Thermogravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) Under PM-USHA Budget" from Manufacturer / Distributors / Authorized Dealers to participate in the competitive bidding process. For the detailed Tender document available only at www.srtmun.ac.in / https://mahatenders.gov.in website only.

The filled tender booklet will be accepted on or before 30-06-2025 up to 3.00 p.m. The said e-Tender will be online open as per schedule if possible. Extension of Tender, Corrigendum or change in schedule will not be published in News paper; it will be published only at www.srtmun.ac.in / mahatenders.gov.in website only

Ref.: Estate/TGA_DTA/PM-USHA/ET-09-2025/,96

Date: 14/06/2025

Swami Ramanand Teerth Marathwada University, Nanded.

- Marathwada University, Marathwada University, Marathwada University, Maharashtra State) INDIA-431606
 e-Tender Notice in "The Hindu (Maharashtra)" and "The Publish the said (Marathwada)" News paper.
 - 2) The System Expert, Computer Centre, This University - With a request to upload the said Tender Booklet on our University web site.
- Notice Board, Administrative Building, S.R.T.M. University, Nanded.
- Notice Board, Estate Department, S.R.T.M. University, Nanded.

L Registrastrar Swami Ramanand Teerth Marathwada University, Nanded. (Maharashtra State) INDIA-431606





Swami Ramanand Teerth Marathwada University, Nanded

Tender No.: Estate/TGA_DTA/PM-USHA/ET-09-2025

BRIEF E-TENDER NOTICE

The Registrar, S,R.T.M.University, Nanded invites e-Tender for "Purchase of Thermogravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) Under PM-USHA Budget" from Manufacturer / Distributors / Authorized Dealers may submit the tender as per specifications, which are given in BOQ. The e-Tender Booklets are available on https:\\mahatenders.gov.in & our University website (www.srtmun.ac.in) from 16/06/2025 to 30/06/2025 up to 03.00 pm online payment of Rs.5,400/- (Rupees Five thousand Four hundred only) (Non-refundable) as the cost of tender form. The last date for online submission of e-Tender on or before 30/06/2025 up to 03.00 p.m. The said e-Tender will be online open as per schedule if possible.

The Registrar, S.R.T.M.University, Nanded reserves the right to accept any tenders or reject the lowest or any other or all tenders without assigning any reasons what so ever. Extension of tender, Corrigendum or change in schedule will not be published in News paper; it will be published only at www.srtmun.ac.in / https://mahatenders.gov.in website only.

NOTE :-

- 1. All eligible / interested Bidder are mandated to get enrolled on e-tendering portal (www.mahatenders.gov.in)
- To process the tender online, bidders are required to obtain valid digital certificate. For details contact Help Desk.
- 3. Bidder can contact *Help Desk* for any clarification of their doubts regarding the process of Electronic Tendering System. Help desk at Toll free Phone No. 1800 3070 2232.

 Tender Enquiry— 02462-229540 (Finance and Accounts Officer), 02462-229526 (Superintendent, Estate Dept.). Submission of tender form fee and EMD of tender by online via net banking before last date of submission of the tender as per the scheduled given.
- 4. The University reserved right to revise or amend the notified for the receipt of tenders or extended date. Such deviations, amendments or extensions, if any, shall be communicated in the form of corrigendum by issuing notification on university website www.srtmun.ac.in and www.mahatenders.gov.in.
- The Bidders, which do not fulfill all or any of the conditions or are incomplete in any respect, are liable to summarily rejection.

Right to reject any or all tenders without assigning reason therefore is reserved.

Ref.: Estate/TGA_DTA/PM-USHA/ET-09-2025/96

Date: 14/06/2025

Swarn Registrar
Swarn Registrar
Amand Teerth
Marathwada University, Nanded.
(Maharashtra State) INDIA-431606



Instructions for filling of E-Tender

The Registrar, Swami Ramanand Teerth Marathwada University, Nanded invites E-Tender for f "Purchase of Thermo gravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) Under PM-USHA Budget" from Manufacturer / Distributors /Authorized Dealers. The details in this regard are given below.

Procedure to submit the tender:
 The vendors should provide two bid systems which are given below:

Envelop No.1 (Technical Bid):

- a) Cost of tender form Rs. 5,400/-(Non-refundable) to be submitted by online.
- b) EMD of Rs.90,000/- (Refundable) to be submitted by online (Exemption for MSME Registered Manufacturers).
- c) Registration certification under shop Act(वमुना 'इ') or company Act. or SSI or MSME.
- d) GST registration certificate.
- e) Xerox copy of PAN card.
- f) Latest Last three years Income Tax Annual return.
- g) Latest Last three years Annual Turnover certified by C.A. (Requirement minimum 50% of Tender cost).
- h) OEM (Original Equipment Manufacturer) Authorization.
- i) Bidder's Declaration for Acceptance of Terms & Condition of the tender (P.No.9 in Tender Booklet)
- j) Bidder should upload scan document of Appendix-II (Page No.10 to 10) for Company/Brand of said Equipments to be Supply.
- k) Upload PO/Work orders of last three years of similar type of work done in Govt./Semi Govt. organization (Min.50% of Tender cost)
- Bidders should submit Tender as per Specification mentioned in this Tender document.
 Else Tender will be rejected.
- m) Bidder should uploaded compliances of said Equipment which is mentioned in this Tender document (page no.12 to 13).

Envelop No. 2 (Financial Bid)-:

The tendering authority will first open the Technical Bid documents of all Contractors and after scrutinizing these documents will shortlist the Bidders who are eligible for Financial Bidding process. Otherwise the tender may be disqualified. Financial bid should be submitted online by Vendor in Appendix- A in the form of BOQ excel sheet given over www.mahatender.gov.in, The supplier shall fill up the column of rate per unit offered by him.

Terms & conditions:

- Bidder should have valid Digital Signature Certificate (DSC) obtained from any Certifying Authorities.
- The specifications/details of the "Purchase of Thermo gravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) Under PM-USHA Budget" provided in the tender booklet.
- 3. The Financial offers shall be submitted online as per the schedule.
- University has the right to split the purchase order to more than one vendor/firms quoting lowest tender amount. Although before this, supplier will be invited for negotiations in University, if needed/required.



- The Bidders are strictly advised to follow the dates and times allocated to each stage. As indicated in the time schedule. All the online activities are time tracked and the Electronic Tendering System enforces time-locks that ensure that no activity or transaction can take place outside the Start and End Dates and Time of the Stage as defined in the tender schedule. At the sole discretion of the Tender Authority, the time schedule of the Tender stages may be extended.
- The detailed specifications of the required "Purchase of Thermo gravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) Under PM-USHA Budget" have been given in Tender booklet.
- 7. University reserves the right for change in the number of items to be maintained in Schedule.
- 8. Rate to be quoted should be mentioned in figures as well as in words at appropriate place in provided in Schedule (BOQ) by the bidder, more over the rate should not be quoted anywhere else in the tender booklet as well as in the blank pages.
- The university reserves the right to decide whether to open or not open the commercial Bid of the supplier and no objection of any supplier shall be entertained on any ground whatsoever it may be regarding this.
- 10. No Bidder shall be accepted without payment by online earnest money deposit and cost of tender.
- The rate should be inclusive of GST, packing, transportation, loading and unloading charges and delivery of material shall have be to given at our Central Store, Estate Department, S.R.T.M. University, Vishnupuri, Nanded.
- 12. The rate should be offered for only the item as mentioned in the Schedule.
- 13. The rate quoted by the bidder should inclusive of GST, Shipment, CIF, Cargo, packing, Installation & Commissioning, Insurance, transportation, Warranty, loading & unloading charges should be expressed in the rate accompanied in Schedule (BOQ).
- 14. The rates quoted for the items other than make & specification specified in the tender form shall not be considered for comparison of rate.
- 15. The University is not to bind to accept lowest tenders and reserve the right to accept/cancel the Bid process and Recall Tender at any time prior to the award of Contract without assigning any reason.

Swami Ramanand Teerth
Marathwada University, Nanded.
(Maharashtra State) INDIA-431606



General Terms & Conditions

- 1. Tender fills up only reputed manufacturer/distributors/dealers for "Purchase of Thermo gravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) Under PM-USHA Budget".
- 2. The earnest money deposit amount of Rs.90,000/- (Rupees Ninty thousand only) is required to be submitted online along with tender. Otherwise submitted tender will not be considered. The vendor/firm will not be liable to get interest on this earnest money deposit amount, when refunded.
- 3. The bidder to whom the purchases order to be given shall be informed about the same. The bidder should deposit an appropriate amount i.e. 5% of purchase order as security deposit within 5 days from the date of Letter of intent issued to successful bidder, after which the purchase order will be issued. The security deposit will not carry any interest which shall be refunded after successful completion of warranty and NOC from concerned department. If the bidder fails or is incapable to keep the security deposit, then the second lowest quoted bidder will be issued the similar purchase order or the University with holds the total authority for the necessary action to be taken.
- 4. The successful bidder is required to execute an agreement on Rs. 500/- stamp paper. The e-tender Notice shall form part of the tender agreement.
- 5. The conditional tenders shall not be accepted.
- 6. If the supplier fails to abide by any of the terms & conditions mentioned herein EMD/Security Deposit shall be forfeited and appropriate action will be taken against supplier.
- 7. F.O.R.- The rates to be quoted F.O.R. should be at our Central Store, Estate Department, S.R.T.M. University, Vishnupuri, Nanded. The rate quoted by the bidder should inclusive of all the taxes, Duties and other charges. The mention of Fare, Packing, Forwarding, Installation as well as Insurance and other charges should be expressed in the rate accompanied in Schedule.
- **8. Validity Period:** The rate quoted by the bidder should be valid up to 180 days from the date of submitting the tender.
- Delivery Period: "Thermogravimetric Analysis/ Differential Thermal Analysis (TGA/DTA)" must be delivered as per agreement and terms and conditions of purchase order.
- 10. The Bidders is held responsible for the faulty replacement / Any kind of loss or damage of "Thermo gravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) " during transportation, printing process, packing, etc at free of cost.
- 11. Successful Bidder should submit Delivery challan and Invoice at our Estate Department of this University immediately after delivery of said Equipments, otherwise University will not responsible for delay in payment due to delay in submission of delivery challan and invoice.

12. Award of Contract:

University reserve right to issue Award of Contract by the recommendation of Technical Committee/Director of Concerned Department, S.R.T.M. University, Vishnupuri, Nanded. Decision of Technical Committee/Director of concerned Department will be final.



Delivery period mentioned in the purchase order may be extended only in case of Special approval from University officials for extension if require and natural calamities.

Income Tax::

The Income Tax/TDS as per rules and surcharge thereon shall be deducted from bill amount, advance payment.

15 Cancellation of Purchase:

University reserves the right to cancel the purchase order under the following conditions in case bidder fails to supply the "Thermo gravimetric Analysis/ Differential Thermal Analysis (TGA/DTA)" within the stipulated or extended time, The University reserves the right to go for next lowest tender or other appropriate action will be taken.

Due to the above mentioned reason if the tender is cancelled, earnest money and security deposit shall be forfeited and also the tender may be allotted to the next lowest tender or the university reserves the right to take appropriate decision.

POWER OF ATTORNEY:

16 If the bidders are a firm or company, they should in their forwarding letter mentioning the names of all the partners together with the name of person who holds the power of attorney authorizing him to conduct all transactions on behalf of the firm, along with the tender.

17 Procedure for Refund of E.M.D. Amount:

Refund of Earnest money deposit to the Unsuccessful Bidders will be get online after upload of Award of Contract (AOC) to the Successful Bidders. University will not responsible for delay in refund of E.M.D. amount after uploading of AOC. Thereafter, Bidders should contact to officials of Mahatenders regarding refund of E.M.D.

18 Refund of Security Deposit:

Security Deposit shall be refund after successful completion of Warranty/ N.O.C. from concerned Department. Unless Security Deposit will not be refunded.

- The Tender Inviting Authority reserves the right to accept or reject bids with any minor deviations.
- The Tender Inviting Authority reserves its right to negotiate with the lowest acceptable bidder (L1).
- 21. In case of any dispute it will be addressed subject to Nanded district jurisdiction only.

Marathwada University, Nanded. (Maharashtra State) INDIA-431606

Bidder's Declaration

PURCHASE OF THERMOGRAVIMETRIC ANALYSIS/ DIFFERENTIAL THERMAL ANALYSIS (TGA/DTA) UNDER PM-USHA BUDGET FOR S.R.T.M.UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/TGA_DTA/PM-USHA/ET-09-2025

I hereby certify that, I have gone through all the information and Terms & Conditions of the tender booklet and I accept the same. Further, I certify that, our firm is not blacklisted, debarred or prohibited by Government of India or any other State Government, Union Territory, Authority or Organization. I also declare that, no case/s, criminal or Civil or Enquires of any kind are pending against our organization. For further correspondence I provide here under the address and contact details.

| | Name of Bidder / Firm, Signature / seal |
|--|---|
| | Name: |
| | |
| | |
| | |
| | |
| | |
| Name of Proprietor and comp | plete address : |
| Name of Proprietor and comp Telephone Numbers | plete address : |
| | |
| Telephone Numbers | |
| Telephone Numbers Office | |
| Telephone Numbers Office Residence | |

Signature / Seal of the Bidder

PURCHASE OF THERMOGRAVIMETRIC ANALYSIS/ DIFFERENTIAL THERMAL ANALYSIS (TGA/DTA) UNDER PM-USHA BUDGET FOR S.R.T.M.UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/TGA_DTA/PM-USHA/ET-09-2025

Appendix - II

| Item Code | Particulars | Bidder should Mention Company/Brand (With Model No.) to be Supply |
|--------------|---|---|
| | Thermogravimetric Analysis/ | |
| | Differential Thermal Analysis (TGA/DTA) | |
| 1 | : Thermogravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) for S.R.T.M.U.N. (Detail Specification Annexure-A as per mentioned in this Tender document) | |
| 2 | Desktop Computer (PC) | |
| - | (Details Specification as per Annexure-A) | |

This is to certify that, the Technical Specification & Model Number mentioned in this Appendix-II is as per Detail Specification mentioned in this Tender booklet. University has right to reject my tender if Technical specification is not as per Specification mentioned in Tender Booklet.

Signature / Seal of the Bidder



PURCHASE OF THERMOGRAVIMETRIC ANALYSIS/ DIFFERENTIAL THERMAL ANALYSIS (TGA/DTA) UNDER PM-USHA BUDGET FOR S.R.T.M.UNIVERSITY, NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/TGA_DTA/PM-USHA/ET-09-2025

Tender Schedule

| Sr. No | Key Days of the Tender | Start Date & Time | Expiry Date & Time |
|--------|--------------------------------------|---------------------------------|--|
| 1 | Tender Release | 14-06-2025 11:00 | 16.06.2025 15.00 |
| 2 | Tender document downloading | 16-06-2025 15:01 | 30.06.2025 15.00 |
| 3 | Online submission | 16-06-2025 15;01 | 30.06.2025 15.00 |
| 4 | Prebid Meeting | 20-06-2025 1 2 :00 | |
| 5 | Technical Bid opening& short listing | 01-07-2025 15:00 | - Table - Tabl |
| 6 | Financial Bid opening | 02-07-2025 15:00 if possible | _ |

Contact below Nos., If any Query

1) Toll free Nos.:

: 1800 3070 2232

2) Tender Enquiry

: 02462 215252 (Finance & Accounts Officer)

02462 215575 (Superintendent, Estate Deptt.)

Email id: estate@srtmun.ac.in

3) Technical Enquiry

Dr..Rajaram Mane sir,

Mobile No.: 7447295802

Swami Ramanand Teerth Marathwada University, Nanded. (Maharashtra State) INDIA-431606

PURCHASE OF THERMOGRAVIMETRIC ANALYSIS/ DIFFERENTIAL THERMAL ANALYSIS (TGA/DTA) UNDER PM-USHA BUDGET FOR S.R.T.M.UNIVERSITY NANDED-431 606 (MAHARASHTRA)

E-Tender No.: Estate/TGA_DTA/PM-USHA/ET-09-2025

<u>Specifications for Thermogravimetric Analysis/ Differential</u> <u>Thermal Analysis (TGA/DTA) – Qty-01 No.</u>

| hern | Compliance Remark | | |
|------|------------------------------------|--|--|
| 1 | Furnace design | TGA system/unit shall be either vertical or Horizontal design with flexibility of single or dual pans capability | |
| 2 | Balance Housing Temp | TGA shall have temp controlled balance housing for better Ultra micro balcne performance for its stability. | |
| 3 | Heating Element and Sensor Type | furance shall of Pt/Pt- Rh elements and sensor will be Pt/Rh for temp measurments. | |
| 4 | | Room Temperature to 1100 C or better | The state of the s |
| 5 | Temp and Mass | To be carried out using Pure Metal standards like | |
| | Calibration standards : | In, Sn and Ag to cover complete temp range or using magnetic standards like Al, PerkAlloy and Ni. | |
| 6 | Scanning/ Heating Rates | Scanning Rates should be the minimum of 0.1 C to 150C per min or better | |
| 7 | Temp Accuracy: | +/- 1.0 C or bettter with calibration standards | |
| 8 | Temp precision: | +/-0.5 C or better with calibration standards | |
| 9 | TGA Balance Drift | from RT-1000 C: ≤ 15 ug | |
| 10 | TGA Balance Stability | from RT-1000 C: ≤ 15 ug | |
| 11 | TGA Balance repeatability | from RT-1000 C: ≤ 15ug | |
| 12 | TGA Balance Resolution | 0.1µg or better | |
| 13 | TGA Balance Accuracy: | +/- 0.1% or better | |
| 14 | | +/- 0.05 % or better | |
| 15 | | +/- 400mg to 500mg | |
| | weighing Range using | | |
| 10 | Ceramic and Pt pans | Opening and closing of furnace shall be thru. | |
| - | Furnace Movement: | push button or software. | |

| It should be with ceramic protection and Pt/Ir heating elements and with additional embedded temp sensor in winding to ensure best temp accuracy and precision. It should be with either single or dual beam type or hang down wire. Sensor can be Cr/AI, or Pt/Pt-Rh or any other metal alloy Built in mass flow controller using software for gas flow setting and auto switch over at set time or temperature. The flow rates set shall be upto 200ml/min to clean the furnace from time to time. 20 The Cool Down time: 21 Gas Purge Types flexibility to be sued Direct entry of Active Gas near the sample coming in contact with sample quickly during the run. 23 Sample Pans 25 Thermal Analysis Software 26 Thermal Analysis Software 27 Standard Warranty 28 It should be with ceramic protection and Pt/Ir heating selection and winding to ensure best temp sensor in winding to ensure a best temp accuracy and precision. It should be with either single or dual beam type best temp accuracy and precision. It should be with either single or dual beam type or hang down time. To should be with either single or dual beam type or hang down to setting and auto switch over at set time or temperature. The flow rates set shall be upto 200ml/min to clean the furnace from time to time. 26 The Cool Down time: 27 The Cool Down time: TGA system shall cool down from 1000 C to 50 C less than 15 minutes with built in forced air cooling or with chiller, Ar, N2, O2, Air etc 28 This provision shall be present to have active gas coming in contact with sample quickly during the run. 29 The Cool Down time: TGA system shall cool down from 1000 C to 50 C less than 15 minutes with built in forced air cooling or with chiller, Ar, N2, O2, Air etc 29 The Cool Down time: TGA system shall cool down from 1000 C to 50 C less than 15 minutes with built in forced air cooling or with chiller, Ar, N2, O2, Air etc 2 | - | | |
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| embedded temp sensor in winding to ensure best temp accuracy and precision. It shuold be with either single or dual beam type or hang down wire. Sensor can be Cr/Al, or Pt/Pt-Rh or any other metal alloy Built in mass flow controller using software for gas flow setting and auto switch over at set time or temperature. The flow rates set shall be upto 200ml/min to clean the furnace from time to time. The Cool Down time: TGA system shall cool down from 1000 C to 50 C less than 15 minutes with built in forced air cooling or with chiller, Ar, N2, O2, Air etc This provision shall be present to have active gas coming in contact with sample quickly during the run. The Sond Direct entry of Active Gas near the sample Windows 10/11-based Thermal Analysis software for data collection and further analysis in Thermal Analysis. Multitasking and multi-module software with licensed version and working under Windows O/S for data acquisition and storage. All the parameters like DTA, TGA, DTG and DSC are measured and displayed on the screen for calculations. The software has the flexibility to measure data with respect to temp and/ or time. Various calculations like mass change,% change, derivative calculations, peak area, on set point, onset temp, end point, peak point, baseline correction, add, subtract, display of more curves on the screen, smoothening of data, slope adjustment, overlay of curves are built in. The software has capability to export data in excel or other suitable format. It is supplied with calibration routines for temperature, enthalpy, mass calibration for regular calibration purpose. Software like Kinetics, Controlled Rate Thermal Analyzer (CRTA) or High Resolution or Auto step, Simulation software, shall be quoted with TGA pacakge The system shall be upgradable with minimum 40 position auto sampler and desired quantity of Pt and ceramic pans to be included with offer as mentioend above. | 17 | | It should be with ceramic protection and Pt/Ir |
| best temp accuracy and precision. It shuold be with either single or dual beam type or hang down wire. Sensor can be Cr/Al, or Pt/Pt-Rh or any other metal alloy Built in mass flow controller using software for gas flow setting and auto switch over at set time or temperature. The flow rates set shall be upto 200ml/min to clean the furnace from time to time. The Cool Down time: The Cool Down time: TGA system shall cool down from 1000 C to 50 C less than 15 minutes with built in forced air cooling or with chiller, Ar, N2, O2, Air etc This provision shall be present to have active gas coming in contact with sample quickly during the run. Sample Pans Thermal Analysis Software The Tournel Analysis. Multitasking and multi-module software with licensed version and working under Windows O/5 for data acquisition and storage. All the parameters like DTA, TGA, DTG and DSC are measured and displayed on the screen for calculations. The software has the flexibility to measure data with respect to temp and/ or time. Various calculations, peak area, on set point, onset temp, end point, peak point, baseline correction, add, subtract, display of more curves on the screen, smoothening of data, slope adjustment, averlay of curves are built in. The software has capability to export data in excel or other suitable format. It is supplied with calibration routines for temperature, enthalpy, mass calibration for regular calibration propose. Software like Kinetics, Controlled Rate Thermal Analyzer (CRTA) or High Resolution or Auto step, Simulation software, shall be quoted with TGA pacakge The system shall be upgradable with minimum 40 position auto sampler and desired quantity of Pt and ceramic pans to be included with offer as mentioend above. | | construction | heating elements and with additional |
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| Pt/Pt-Rh or any other metal alloy Built in mass flow controller using software for gas flow setting and auto switch over at set time or temperature. The flow rates set shall be upto 200ml/min to clean the furnace from time to time. The Cool Down time: TGA system shall cool down from 1000 C to 50 C less than 15 minutes with built in forced air cooling or with chiller, Ar, N2, O2, Air etc This provision shall be present to have active gas coming in contact with sample quickly during the run. Pt 5 numbers and Ceramic Pans 10 numbers to be quoted Windows 10/11-based Thermal Analysis software for data collection and further analysis in Thermal Analysis. Multitasking and multi-module software with licensed version and working under Windows O/S for data acquisition and storage. All the parameters like DTA, TGA, DTG and DSC are measured and displayed on the screen for calculations. The software has the flexibility to measure data with respect to temp and/or time. Various calculations like mass change, derivative calculations, peak area, on set point, onset temp, end point, peak point, baseline correction, add, subtract, display of more curves on the screen, smoothening of data, slope adjustment, overlay of curves are built in. The software has capability to export data in excel or other suitable format. It is supplied with calibration routines for temperature, enthalpy, mass calibration for regular calibration purpose. Software like Kinetics, Controlled Rate Thermal Analyzer (CRTA) or High Resolution or Auto step, Simulation software, shall be quoted with TGA pacakge The system shall be upgradable with minimum 40 position auto sampler and desired quantity of Pt and ceramic pans to be included with offer as mentioend above. | | construction | or hang down wire. Sensor can be Cr/Al. or |
| Built in mass flow controller using software for gas flow setting and auto switch over at set time or temperature. The flow rates set shall be upto 200ml/min to clean the furnace from time to time. The Cool Down time: | | | Pt/Pt-Rh or any other metal alloy |
| gas flow setting and auto switch over at set time or temperature. The flow rates set shall be upto 200ml/min to clean the furnace from time to time. The Cool Down time: The System shall cool down from 1000 C to 50 C less than 15 minutes with built in forced air cooling or with chiller, Ar, N2, O2, Air etc Gas Purge Types flexibility to be sued Direct entry of Active Gas near the sample This provision shall be present to have active gas coming in contact with sample quickly during the run. Pt 5 numbers and Ceramic Pans 10 numbers to be quoted Windows 10/11-based Thermal Analysis software for data collection and further analysis in Thermal Analysis. Multitasking and multi-module software with licensed version and working under Windows O/S for data acquisition and storage. All the parameters like DTA, TGA, DTG and DSC are measured and displayed on the screen for calculations. The software has the flexibility to measure data with respect to temp and/or time. Various calculations like mass change,% change, derivative calculations, peak area, on set point, onset temp, end point, peak point, baseline correction, add, subtract, display of more curves on the screen, smoothening of data, slope adjustment, verlay of curves are built in. The software has capability to export data in excel or other suitable format. It is supplied with calibration routines for temperature, enthalpy, mass calibration for regular calibration purpose. Software like Kinetics, Controlled Rate Thermal Analyzer (CRTA) or High Resolution or Auto step, Simulation software, shall be upgradable with minimum 40 position auto sampler and desired quantity of Pt and ceramic pans to be included with offer as mentioend above. | 19 | Gas Flow Controls: | |
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| 26 Auto sampler upgrade in future Software like Kinetics, Controlled Rate Thermal Analyzer (CRTA) or High Resolution or Auto step, Simulation software, shall be quoted with TGA pacakge The system shall be upgradable with minimum 40 position auto sampler and desired quantity of Pt and ceramic pans to be included with offer as mentioend above. | | | |
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| Pt and ceramic pans to be included with offer as mentioend above. | 20 | 7.1173 | |
| mentioend above. | | iii iuture | |
| | | | |
| One year standard warranty | 27 | Chandaud 14/ | |
| | 21 | Standard Warranty | One year standard warranty |



28 Future Upgrade to Camera attachment

29 Country of Origin

PC Specification

The system shall have flexibility to upgrade TGA with Camera attachment USA, UK, Europe and Japan

Branded, Desktop: i5 processor with latest generation, 8GB RAM, 512 SSD, Display 21.5 Inch, Operating System Windows 11 Home, MS-Office 2024, Integrated Graphics Card. Ports: Audio In-Out, USB, HDMI, LAN Port 10/100/1000 GbE, etc., Keyboard, Mouse, On sit e 3 years warranty.

Signature / Seal of the Bidder



Tender Inviting Authority: Registrar, Swami Ramanand Teerth Marathwada University, Nanded.

Name of Work: E-Tender No.09-2025 for Purchase of Thermogravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) Under PM-USHA Budget, S.R.T.M.University, Nanded

Contract No: Estate/TGA_DTA/PM-USHA/ET-09-2025

(Rate should be Quot in Indian Rupee Only)

| Quoted Rate in Words | Total in Figures | 1.01 | _ | _ | No. | NUMBER # | Company: | Name of the Bidder/ |
|----------------------|---------------------|--|---|----|--|----------|---|------------------------|
| n Words | 8.5 | Thermogravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) for SRTMUN (Detail Specification as per Annexure-A mentioned in Tender document) | Purchase of Thermogravimetric Analysis/ Differential Thermal Analysis (TGA/DTA) for SRTMU Nanded: | 2 | item Description | TEXT# | Company: PRICE SCHEDULE PRICE SCHEDULE (This BOQ template must not be modified/replaced by the bidder and the same should be uploaded after filling the relevent columns, else the bidder is liable to be rejected for this tender. Bidders are allowed to enter the Bidder Name and Values only) | |
| | | 1.00 Nos | | 4 | Estimated Quantity | NUMBER # | ame should be | |
| | | Z Os | | 5 | Units per Nos. | TEXT # | uploaded after | |
| | | | | 7 | BASIC RATE In Figures To be entered by the Bidder in Rs. P | NUMBER# | PRICE SCHEDULE for filling the relevent of the selection | |
| | | and the parties of | | 8 | GST (If applicable in Percentage) | NUMBER | t columns, else t | |
| INR Zero Only | | 0.00 | | 9 | GST Amount in Rs. P | NUMBER | he bidder is lial | |
| Only | 0.000 | 0.00 | | 11 | TOTAL AMOUNT excluding taxes in Rs. P | NUMBER # | ble to be rejected for t | |
| | | | | 12 | including taxes Rs. P | NUMBER # | his tender. Bidders | |
| | 0.000 INR Zero Only | D.DOU HWA ZERO O'HIY | IND Zero Only | 13 | TOTAL AMOUNT in Words | 0.00 | are allowed to enter the Bidder | |

Haratura State | MOLA-431606