

Tender Fee: Rs.2,000/- (GST Inclusive)

(Non-Refundable)

विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर-440010 (भारत)

VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR-440 010 (INDIA)



TENDER DOCUMENT FOR

SIMULTANEOUS THERMAL ANALYZER (TGA-DSC)

TENDER NO.: VNIT/STR/MM/AP/JB/2020-2021/02/2nd Call dt.14/10/2020

DATE OF ISSUE OF TENDER : 14th OCTOBER 2020 UP TO 3.00 P.M.
LAST DATE OF SUBMISSION OF TENDER : 3rd NOVEMBER 2020 UP TO 3.00 P.M.
DATE OF OPENING OF TENDER : 3rd NOVEMBER 2020 UP TO 3.30 P.M.
EMD: Rs.50,000/-

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:



VISVESVARAYA NATIONAL INSTITUTE OF TECHNOLOGY, NAGPUR- 440 010 (INDIA)
TENDER NOTICE Advt.No: VNIT/STR/MM/AP/JB/2020-21/02/2nd Call dt. 14/10/2020
Tenders in Sealed Envelope are invited for
Simultaneous Thermal Analyzer (TGA-DSC)
for Metallurgical & Materials Engg. Department

For complete details visit our website: www.vnit.ac.in. The bidders can download the tender form/ documents from **14/10/2020** Institute's website and send self addressed Envelope, invariably along-with bank draft of Rs.2,000/- (GST inclusive) (Rs. Two Thousand with inclusive GST Only, **Non Refundable**) drawn in favour of The Director, VNIT, Nagpur, towards the cost of **TENDER ITEM FORM** to stores section, along with the cost of each tender form.

V.N.I.T will not be responsible for postal delay/ non-receipt of tender form/ D.D, sent through the post. Tender forms duly filled in all respect in only original prescribed format, supplied by the VNIT, duly super-scribed , should reach office of the Stores Officer, VNIT, Nagpur -440010, on or before **03/11/2020 upto 3.00 p.m.** The tenders are likely to be opened at **3.30 p.m** on the same day. The Director, VNIT reserves the right to accept or reject any or all tender offer.

For Enquiry contact Stores office, VNIT, Tele No : 0712-2801243, 2801369



विश्वेश्वरय्या राष्ट्रीय प्रौद्योगिकी संस्थान, नागपुर 440 010 (भारत)
निविदा सूचना क : VNIT/STR/MM/AP/JB/2020-21/02/2nd Call dt.14/10/2020
निम्नलिखित मदो की खरीदी हेतु मुहरबंद आमंत्रित है ।
Simultaneous Thermal Analyzer (TGA-DSC)
for Metallurgical & Materials Engg. Department

संपुर्ण जानकारी के लिए इच्छुक विक्रेता संस्थान कि वेबसाइट www.vnit.ac.in पर जा सकते है । इच्छुक विक्रेता निविदा प्रपत्र दि. **14/10/2020** तक संस्थान कि वेबसाइट से डाउनलोड करके स्वयं के पते युक्त लिफाफा भेजकर विज्ञापन क्र. उल्लेख कर के निविदा मद प्रपत्र के मुख्य हेतु रु. 2000/- (GST inclusive) (Non Refundable) बैंक ड्राफ्ट निदेशक, वी.एन.आय.टी., नागपुर, के साथ निविदा प्रपत्र भंडार अनुभाग में भेज सकते है ।

डाक द्वारा विलंब होने पर / निविदा दस्तावेज न मिलने पर/ D.D न मिलने पर, वी.एन. आय. टी. (वि. रा .प्रो.सं) जवाबदेह नही होगा । संस्थान द्वारा प्रदत्त केवल वास्तविक निर्धारित प्रपत्र को पूर्ण रूप से भर कर दि. **03/11/2020 के अपरान्ह ३.०० बजे** तक या इससे पूर्व भंडार अनुभाग (वि. रा .प्रो.सं) नागपुर मे जमा करे। निविदा उसी दिन अपरान्ह ३.३० बजे खोली जाएगी । किसी भी या सभी निविदाओ को अस्वीकृत करने का अधिकार निदेशक का होगा।

For Enquiry contact Stores office, VNIT, Tele No : 0712-2801243, 2801369

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

INVITATION of QUOTATION/TENDER for
Simultaneous Thermal Analyzer (TGA-DSC)

Dear Vendor,

Sub: Tender Enquiry for Procurement of **Simultaneous Thermal Analyzer (TGA-DSC)**

for Metallurgical & Materials Engineering Department.

VNIT herewith invites tender / bid in sealed envelope for procurement of equipment **Simultaneous Thermal Analyzer (TGA-DSC)** at the Metallurgical & Materials Engineering Department. Interested bidders are requested to submit the most competitive bid / quotation, details below:-

Description of the Goods / Equipment	Specifications	Unit / Quantity	Delivery Period & Place of Delivery	Price	Earnest Money Deposit (EMD) Amount in Rs	Installation
Please refer enclosed "QFA/Bill of Material" for complete details	As per QFA/Bill of Material	As per QFA/Bill of Material	3 Months from the Date of award of PO / Contract MM Engg. Department, VNIT, Nagpur	F.O.R. VNIT, Nagpur	Rs.50,000=00 (Fifty Two Thousand only) in form of <u>DD</u> drawn in favour of the Director, VNIT, Nagpur [To be enclosed with the quotation in separate envelope]	Good(s)/Equipment(s) to be / installed / commissioned at place of Delivery by the bidder at Free of Cost

Signature of Bidder
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Date:

Schedule & Instructions for Tender/Bid Submission

Tender Ref. No VNIT/STR/MM/AP/JB/2020-21/02/2nd Call

dt 14/10/2020

Item: Procurement of **Simultaneous Thermal Analyzer (TGA-DSC)**
for Metallurgical & Materials Engg. Department.

Date of Issue	:	14/10/2020
Last Date of Submission	:	14/10/2020 up to 3.00 pm
Tender Fee	:	Rs 2,000/- (GST Inclusive) through DD drawn in favor of Director, VNIT, Nagpur
Amount of EMD	:	Rs.50,000/- payable through DD drawn in favor of Director, VNIT, Nagpur
Tender Opening Date & Time	:	03/11/2020 at 3.30 pm

Submission of Bid

TWO BID Viz. **Technical/ Qualifying Bid** and **Price/Commercial Bid** Systems will be followed for this tender.

The Technical bid and the Financial bid should be sealed **in separate covers both duly super-scribed** and both these sealed covers are to be put **in a bigger cover** which should also be sealed and **duly super-scribed** with for **Simultaneous Thermal Analyzer (TGA-DSC)**

For Technical /Qualifying Bid - Envelope to be super-scribed with "**TECHNICAL /QUALIFYING BID for Simultaneous Thermal Analyzer (TGA-DSC)**" and should be submitted with prescribed Tender Fee & EMD and the associated supporting documents. Bill of material (without any price), indicating the compliance of technical specification should also be included with the qualifying bid. The Tender Fee & EMD DD to be put in separate envelope.

For Price/Commercial Bid - Envelope to be super-scribed with "**PRICE/COMMERCIAL BID for "Simultaneous Thermal Analyzer (TGA-DSC)"**" The Price should be indicated in the prescribed format in the Price/Commercial Bid only. Any other format will lead to disqualification.

Both above sealed covers are to be put **in a bigger envelope** which should also be sealed and **duly super-scribed** with - Tender Enquiry for "**Simultaneous Thermal Analyzer (TGA-DSC)**" for MME Department.

The sealed envelope super-scribed with - Tender Enquiry "**Simultaneous Thermal Analyzer (TGA-DSC)**" for Metallurgical & Materials Engg. Department, and to be sent to Joint Registrar (Stores), VNIT, South Ambazari Road, Nagpur 440 010. Sealed envelope can also be submitted in person in the "**Tender / Quotation Box**" kept in The Stores Section. VNIT, Nagpur. The last date of submission is **03/11/2020 by 3.00 P.M.**

Tender received after the last date / time of submission (as mentioned in tender notice) will not be considered and will lead to rejection.

Each envelope / cover should also indicate clearly the name and address of the bidder.

Signature of Bidder
(Authorized Signatory)

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Date:

General Instructions, Terms & Conditions for the Bidder / Vendor

1. Price Bid

- a) The price should be quoted **F.O.R. VNIT, Nagpur** on delivery basis.
- b) The price/rates quoted by the bidder shall be FIRM & FIXED and shall not be variable/subject to adjustment on any account.
- c) The price bid shall be valid for a period of 180 days from the date of opening.
- d) The duties, taxes and other levies payable by the vendor shall be shown separately in bidding document. The basic price per unit should be separately mentioned in price bid in the given format.
- e) Duties & taxes viz. Custom, GST, Freight / Transportation, Packing & Forwarding, Insurance, Price Ex-Works etc. shall be indicated separately in the given format only.
- f) **The bidder is requested for special educational discount to the Institute.**
- g) The contract shall be for the full quantity as described in QFA/Bill of Material. Correction if any shall be made out by crossing out, initialling, dating and re-writing.
- h) In case of price quoted in foreign currency, its conversion rate to INR on the date of opening the quotation/tender shall be considered.

2. Technical Bid

- a) The good/s offered must meet / comply with the Technical Specifications detailed in "**Technical/Qualifying Bid**" given in tender. In case of deviation if any, the firm's bid is liable to be treated as non-responsive.
- b) VNIT has the sole discretion to accept or reject tenders / bids based on deviations, if any, from the technical specification.
- c) The price bids of the bidders who **do not conform** to the Technical Specifications & Eligibility Criteria given in Technical/Qualifying Bid will not be opened. The EMD of such bidder/s will be returned in due course.

3. Bid Evaluation

The Purchaser will evaluate and compare the bids determined to be substantially responsive i.e. which;

- a) Are properly signed, and
- b) Confirm to the general terms and conditions, special conditions, and technical specifications.

4. Each Bidder shall submit only one bid. VNIT Ref. No. and item name must be mentioned on envelope / cover containing the quotation.
5. Bidder shall submit Firm's registration certificate, GST registration certificate, PAN, Delivery Period, Warranty/Guarantee, others etc with the bid.
6. Bidder shall furnish the information in the prescribed format of Technical and Price Bid only (as applicable). Any other format will lead to disqualification. Each and every document submitted with Technical and Price Bid should be duly signed & stamped. **Incomplete or Conditional Bid(s) will not be accepted.**
7. **Earnest Money Deposit (EMD):** Bidder shall submit EMD in form of Demand Draft in favor of "**Director, VNIT Nagpur**" payable at Nagpur. The EMD to be submitted strictly in a separate envelope superscribed with Vendor / Firm's name & address & also on back side of **DD** with stamp. **Bid received without EMD will be summarily rejected.**
8. **EMD Exemption:** Exemption is applicable to MSE Firms engaged in manufacture/ production of goods or providing of any services, as per MSMED act. 27/2006 chapter – 1 2(e), subject to furnishing of relevant valid certificate (including terminal validity date of their registration) for the item tendered.
9. **Performance Security:-** Successful bidder/Firm who is recommended for award of contract will be required to **submit the Performance Security of 5% amount of basic price of goods** within 14 (fourteen) days after receipt of notification/letter of the award and it should remain valid for a period of 60 (sixty) days beyond the date of completion of all contractual obligations of the supplier. If successful bidder failed to submit the performance security within the given period, the EMD will be forfeited (if submitted) or in case of Supplier registered with MSME/NSIC/SSI etc., the Institute reserves the right to

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initiate action including reporting to principal Govt. authorities. The EMD/bid security will be returned to successful bidder on receiving of performance security. The performance security will be returned after the satisfactory delivery and installation of the good, and receipt of Performance Bank Guarantee (PBG) against the warranty.

10. Expression of inability for the supply or delivery of good/s as per specifications will lead to cancellation of PO and EMD (as submitted) will be forfeited. Further Institute may also disqualify / debar the Vendor from participating in any of its future enquiries for the period of two years as recommended by institute authorities.
11. **Specification and Make:** Bid should be given for the exact specification and make as shown in the tender enquiry against Sr. No. of the item / good. The bid which is not as per our tender enquiry will be treated as non responsive.
12. **Product Catalogue:** Information brochures/Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
13. **Client List:** Bidder shall furnish information of Client list along with the order copy of similar good/s / equipment supplied to any IIT/NITs/ any Govt. Organization in India including details of price & all other charges / duties with the bid. List of other clients shall also be submitted.
14. **ISI Certification:** Where ISI certification marked goods / items are available in market, procurement should generally be limited to goods with those or equivalent marking only.
15. **Authorization Certificate:** Sole selling agent/Authorized distributors/Dealers/ Suppliers are eligible to bid on behalf of Original Equipment Manufacturers (OEM) provided they submit requisite authorization and self certification from the (OEM). The bidder should enclose the latest authorization certificate from OEM.
16. **Taxes:** GST or any other taxes as per Govt. norms shall be applicable from time to time. The % of Tax must be indicated separately in the bid.
17. **Goods / Items for Research Purpose: Concessional GST @ 5% will be applicable for purchase of goods viz Scientific & Technical instruments and other required for the Research purposes only.** This is in accordance of Govt. of India, Ministry of Finance Notification 45/2017-Central Tax (Rate) dated 14th November, 2017 and 47/2017-(Integrated Tax (Rate) dated 14th November, 2017, and DSIR No. TU/V/RG-CDE (190)/2016 Dated: 20.02.2018. The description of goods is given in Govt. of India notification dated 14th November, 2017 mentioned above. A certificate in this respect will be issued to the vendor by the Institute.
18. **Taxes (For Import Item)** - Govt of India Ministry of Science & Technology, DSIR, New Delhi vide letter No TU/V/RG-CDE(190)/2016 dated 20/02/2018 has issued Certificate of Registration to VNIT, Nagpur for purposes of availing customs duty exemption in terms of Govt. Notification 51/96-Customs dated 23rd July, 1996 and this registration is valid up to 31.08.2021. VNIT is eligible to avail partially exemption for Customs Duty. Necessary documentation / exemption certificate for the same will be provided by the Institute wherever applicable. The supplier who has quoted the price in Rupees, but importing the items from the foreign country has to sign the High Sea Sale Agreement. Against High Sea Sales Agreement GST is not applicable; Custom Duty is applicable under Notification No 51/96. The charges towards HSS agreement, if any, will have to be borne by the firm.
19. **Valid Period of Quotation/offer:** The bidder should clearly mention the valid period of quotation/offer in the bid. The quotation/offer shall be normally valid for a period of **180 days** from the date of opening the tender.
20. **Rate Contract:** If the Good/s under enquiry is mentioned under the Govt of India, DGS&D rate contract, Vendor shall supply the good/s at DGS&D contract rate as VNIT Nagpur is Government of India's Institute of National Importance under the Ministry of HRD.
21. **Installation:** Goods / Equipments shall be delivered / installed at concerned laboratory / department of VNIT by the Bidder at free of cost.

Signature of Bidder
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22. **Service centre:** Vendor shall provide the details of Service Centre in Nagpur or other region nearby with name of contact person, their contact nos. & address.
23. **Payment (Indigenous Item):** Institute will release the full & final (100%) payment after delivery of items and its successful installation/ demonstration at concerned department / laboratories of VNIT Nagpur. The vendor will be required to submit the bills in triplicate along with delivery memo and Warranty certificates. Payment will be made through Crossed Cheque / ECS / NEFT / RTGS. For electronic payment mode, Firm / Company bank details on letter head will be required.
24. **Payment (Import Item):** In case of import good/s, the payment term shall be 100% through irrevocable Letter of Credit/Telegraphic Transfer, the 90% will be released against dispatch of original documents and items/goods received at the Nagpur Airport and the balance 10% will be released after delivery and successful installation of the goods at VNIT, Nagpur. Letter of Credit amendment charges will be borne by the beneficiary.
25. Vendor shall furnish price & other information in the prescribed Price Bid format. Each document submitted with quotation should be duly attested & stamped by the vendor, failing which submitted quotation will be treated as **Non-Responsive**. Incorrect, Incomplete or Conditional Quotation(s) will not be accepted and will be treated as **Non-Responsive**.
26. If any document of tender /quotation enquiry, certificate etc. submitted by the vendor is observed to be incorrect / false / forged / having ambiguity, intentionally or un-intentionally at any stage, the tender/quotation submitted by the vendor is liable to be treated **Disqualified/Non-Responsive**. Further the Institute reserves the right to initiate any action as deemed fit in such case against the vendor including the action of blacklisting of firm.
27. Incomplete or conditional quotation/bid shall be summarily rejected.
28. **Educational Discount:** VNIT, Nagpur is a Govt. of India's Institute of National Importance engaged in education & research of National & International repute, the Vendors shall give / offer the special educational discount on quoted rates.
29. The vendor shall take full responsibility in case of any damage, loss or injury to any person / building or to any part thereof, and shall repair / and make good the loss, at his own cost.
30. **Annual Turnover:** Balance sheet, profit & loss account for the proceeding 3 financial year must be enclosed as an evidence of the financial requirement.
31. **Guarantee or Warrantee & Delivery of Goods**
- a) **Guarantee/Warranty:** Normal comprehensive **Warranty/ Guarantee of 3 years** shall be applicable to the supplied goods. In case any part or whole of the equipment is found to be defective during the guarantee period, then the same will have to be replaced/repaired free of cost at our premises. The Vendor should guarantee that the goods/items and its accessories supplied are complete in every respect and confirm to the technical specification mentioned in the Bill of Material
- b)
- c) **Performance Guarantee:** A performance guarantee of 10% of the total invoice value for goods/items costing 10 Lacs & above, and valid for three year covering the entire warranty period will be required from the vendor executing the purchase order. In case of violation of any of the conditions of guarantee / warranty (for Three years), the aforesaid performance guarantee shall be invoked by VNIT.
- d) **Delivery of Goods:**
- i) Vender shall deliver/supply the goods within **12 Weeks** period.
- ii) Goods shall be supplied / delivered by the bidder at the installation site in concerned laboratory/department of VNIT Nagpur at free of cost on working days. Vendor shall strictly be adhered to above, failing which **Liquidated Damages Clause will be applicable**.
- iii) Goods should be securely, safely and adequately packed and dispatched at the risk of supplier. Purchase order Ref. No. & date must be mentioned/should be kept in all packing's.
- iv) Bidder shall deliver the goods in concerned laboratory/department perfectly before 4.00 pm on working day/s. Delivery of goods will not be accepted on Saturday, Sunday and Institute Holiday.

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32. Liquidated Damages Clause:

- a) The Director, V.N.I.T. Nagpur reserves the right to recover from the vendor, liquidated damages a sum equivalent to $\frac{1}{2}$ percent of the price of the undelivered stores at the stipulated rate for each week or part thereof, during which the delivery of such stores may be delayed subject to, a maximum limit in the case of an order exceeding Rs. One Lakh in value, upto **10** percent and in the case of an order not exceeding Rs. One Lakh in value upto **5** percent of the stipulated price, of the stores so undelivered.
- b) To purchase elsewhere, on vendor's accounts, at his risk, the stores etc. undelivered, or other of a similar description, where others exactly employing with the particulars, are in the opinion of the Director, Visvesvaraya National Institute of Technology, Nagpur are not readily procurable, without cancelling the contract, in respect of consignment not yet due for delivery.
- c) If the Supplier fails to deliver the material/goods within the stipulated delivery period, then Amount of EMD given by the Vendor shall be forfeited. In case of Supplier [registered with MSME/NSIC/SSI etc.] not required to submit the EMD, the Institute reserves the right to initiate action including reporting to principal Govt authorities.
- d) To cancel the contract.

In the event of action being taken under (b) or (c) above, the vendor shall be liable to make good for any loss, which the Institute may sustain, by reason of higher price of items/goods, so purchased or the otherwise, howsoever:

The decision of the Director, Visvesvaraya National Institute of Technology, Nagpur shall be final as regards to the acceptability of stores supplied by the seller and the Director, Visvesvaraya National Institute of Technology, Nagpur, shall not be required to give any reason in writing or otherwise at any time for the rejection of stores.

33. Award of Purchase Order / Work Contract

- a) Notwithstanding the above, the Purchaser reserves the right to accept or reject any bid and to cancel the bidding process and reject all bids at any time prior to the award of contract.
- b) The Purchaser will issue the **Purchase Order / Work Contract** to the vendor / bidder whose bid has been determined to be substantially responsive and who has offered the lowest evaluated bid price. The terms of the accepted offer shall be mentioned in the purchase order.
- c) On receiving of order by vendor, the vendor shall deliver / supply / install the good/s at free of cost up to installation site of concerned department of VNIT, Nagpur, failing which cost of delivery / installation will be deducted from the Vendors bill payment.
- d) After receiving of the Purchase Order / award of contract, it will be Vendor's obligation / responsibility to supply or delivery of the good/s as per specifications within specified time schedule/delivery period.
- e) Expression of vendor's inability for the supply or delivery of good/s as per specifications will lead to cancellation of PO and EMD (as submitted) will be forfeited. Further Institute may also disqualify / debar the Vendor from participating in any of its future enquiries for a period as recommended by institute authorities.

34. Post Delivery / Installation Warranty & Support:

- a) The Vendor should have their office or authorized representative / dealer in India. They should mention in detail their support infrastructure by which minimum downtime will be ensured.
- b) The Vendor shall submit details of Service Centres / Factory and information on service support facilities that would be provided after warranty period [Form].
- c) The Vendor will have to give undertaking that in case of any breakdown / damages during warranty period the goods / equipment will be restored back to its original status within **2 weeks** (This may include replacing some spares also).

35. Any corrigendum / amendment regarding this tender enquiry will be issued on institute website only. **www.vnit.ac.in/stores**

36. Director, VNIT, Nagpur reserves the right to increase/decrease the ordered quantity by up to 25% (Twenty Five) per cent at any time, till final delivery date (or the extended delivery date of the contract/PO), by giving reasonable notice even though the quantity ordered initially has been supplied in full before the last date of the delivery period (or the extended delivery period) of goods at any stage.(As per Option Clause 9.3.1 of Manual for Procurement of Goods 2017).

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37. Director, VNIT, Nagpur reserves the right to accept or reject or cancel any or all enquires or bids/PO at any stage without assigning any reason thereof.
38. **For any disputes, the place of jurisdiction shall be Nagpur, Maharashtra (India) only.**
39. **It will be presumed that the vendor has read carefully all the above mentioned instructions, terms & conditions and abide by same.**
40. All Communication are to be addressed to –
Director
Visvesvaraya National Institute of Technology,
South Ambazari Road,
Nagpur 440 010
Maharashtra (India)
41. We look forward to receiving your bids and thank you for your interest in this project.

Sd/-

**Dean (P & D)
VNIT, Nagpur**

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

**TECHNICAL/
QUALIFYING BID**

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Technical Specifications and Eligibility CriteriaREF NO.: VNIT/STR/MM/AP/JB/2020-21/02/2ndcall

Date:14/10/2020

Tender Specifications “Simultaneous Thermal Analyzer (TGA-DSC)”

SL No	Features	Specifications
1.	Type of Measurement	The system should be capable of measurements of simultaneous TRUE TGA-DSC analyses like evolution of glass transition temperature, decomposition temperature, peak area, peak temperature, mass loss steps, specific heat determination, degree of crystallinity, phase transformation, transition enthalpies, melting temperature etc used in the characterization of ceramics, amorphous material, metal and alloys.
2.	Furnace	Temperature Range from Room Temperature to 1500°C or higher. MOC should be metallic for high-temperature applications. Furnace temperature precision must be $\pm 0.5^\circ\text{C}$ or better. Temperature resolution 0.01°C or better. Isothermal Temperature Precession $\pm 0.1^\circ\text{C}$.
3.	Temperature Scanning Rate (For both Heating and cooling)	0.01 to 50 °C/min for complete temperature range.
4.	System Design	Sample Weight Capacity up to 200 mg or better. Balance measuring range 1 gm or more, including tare weight. Balance Resolution upto 1 μg or better over full measuring range. TG drift in isothermal state should be better than 2 $\mu\text{g/hr}$, dynamic state 10 $\mu\text{g/hr}$ is preferable.
5.	Measurement environment	The system should have the facility to measure the sample under different gas atmosphere such as Ar, N ₂ , O ₂ , Air with integrated Mass Flow Controller for accurate gas flow (range 5 to 250 ml/min). System must be vacuum tight design, system must supply with vacuum pump for achieving 10 ⁻² mbar vacuum level. Atmospheres : Inert, oxidizing, static, dynamic.
6.	Mass Flow Controller	Integrated, software-controlled flow controller for automated switching of purge gas should be provided.
7.	DSC Features	DSC sensor, Temperature Accuracy: $\pm 0.3^\circ\text{C}$ or better. DSC measuring range: $\pm 500\text{mW}$. DSC resolution: 1 μW or better. Enthalpy Accuracy: $\pm 3\%$ or better (for standard samples). Enthalpy Precision: $\pm 0.5\%$. Temperature of Heat capacity measurement: Room Temperature to 1500°C. Cp sensitivity: $\pm 3\%$ or better for complete temperature range.
8.	Thermo couple	Pt-Pt /Rh (type R), Type S or better.
9.	Crucibles (Type, material)	Pt (5 no's), Alumina (20 no's) with lid must be quoted with the instrument. Must accommodate a minimum sample volume of 85 μl and above (excluding crucible volume).

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10.	Calibration kit (temperature and enthalpy):	For entire temperature range consisting of minimum eight standard samples with manufacturer certificate and detailed calibration instructions, for use in suitable crucible.
11.	Standard samples	Must provide sapphire standard for calibration of specific heat.
12.	Software	The system should have the Windows-based Thermal Analysis software with user interactive data analysis tools for analysing the captured data and automatic report generation. The heating rate must be programmable through the software and should have provision for multi-step heating and isothermal holding. Data storage facility and provision to conduct post-test analysis and review of test results later. The software should be capable enough to calculate the decomposition temperature, Specific heat capacity, Isothermal studies, temperature of transition (melting and glass transition), heat of fusion, weight loss or gain. Apart from this other generic functionality includes: Peak integration, Partial areas, Onset temperature, Step transition, running area integral plots, Data point value and Tabular data report. The instrument software should include facility like select a region of a curve, smoothing of curves, curve subtraction, 1st derivative, 2nd derivative, drift correction, calculation of integral curve, conditional experiment termination. For data collection and Treatments for routine evaluations the data must be available in ASCII format. Software should be compatible with Window 10 or higher version.
13.	Computer	A branded computer for operating the equipment with licensed Windows 10, core i5/i7 processor; 1TB HDD SATA and 4 GB RAM DDR4, Optical Drive, USB Key board Mouse Bundle, 19.5" monitor or better should be supplied along with the instrument free of cost.
14.	Warranty	The system should have three years of standard comprehensive warranty from the date of successful installation of the equipment including regular visit of trained manpower for inspection, maintenance and smooth operation of the Equipment.
15.	Installation	(a) Onsite at Free of Cost. (b) There should be at least 15 installations (in details with name, address and contact numbers) in Central Govt. sponsored Institutes in India.
16.	Other Requirements	The system must include all other essential accessories for operation. 6 kVA online UPS with 1 hr backup with maintenance-free batteries, Argon gas cylinder along with two stage SS regulator has to be supplied by the supplier of the instrument and those have to be connected and integrated with the main unit. UPS should contain all provisions to meet up the requirement of entire set up. Quote model should have provision for future up-gradation possibilities. Power supply: 230 V single phase/ 50-60 Hz.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 1
Check List for TECHNICAL / QUALIFYING BID

Ref No. VNIT/STR/MM/AP/JB/2020-21/02/2nd Call

dt.14/10/2020

Read the **Instructions** below:

Please fill in details of certification / compliance enclosed in respect of this tender enquiry in the following format (Yes / No) only. **Any other format will lead to disqualification.** Any reference to product brochure without filling **appropriate** entry as "**Yes/No**" in the column will lead to disqualification.

If there is any deviation from the required specification then, it should be clearly specified in the "**Remarks**" column and appropriate documentary proof, may be enclosed without fail. **Please arrange all enclosures in following order only**

Sr. No.	Requirement	Details of Certification Enclosed Mention - YES/NO	Page No.	Remarks
1.	EMD of 50,000=00			
2.	Latest Manufacturer's / OEM Authorization Letter			
3.	Service Centre Details with Address & Telephone Nos.			
4.	Order Copies of preceding 3 financial Years (2017-2018,2018-2019,2019-2020)duly certified, indicating details of Order Value executed (Enclose Proof)			
5.	Product Literature / Information Brochure			
6.	Preferably Vender / OEM should have ISO 9000 or similar Certification for Quality			
7.	Certificate of Incorporations			
8.	Registration Certificate			
9.	Company Profile			
10.	Customer List / Client List with contract details			
11.	Technical Manpower Employed with Qualifications & Experience			
12.	PAN			
13.	GST Registration Certificate			
14.	Methodology of Warranty Support			
15.	Brief History of the Company/ Firm with credentials if any			
16.	Warranty/ Guarantee (3 years)			
17.	Copy of performance reports from customers			

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 2

MANUFACTURERS (OEM) AUTHORIZATION LETTER

REF No.

Date

To

Dear Sir,

We who are established and reputable manufacturers of *(Name and description of goods offered)* having factories at *(address of factory do hereby authorize M/s (Name and address of Agent)* to submit a bid, and sign the contract with you for the goods manufactured by us against the above IFB No. VNIT/STR/. We hereby extend our full guarantee and warranty of 3 years for the goods and services offered for supply by the above firm against this IFB.

Yours truly,

(Name with Stamp/Seal of Competent Authority)

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to legally bind the manufacturer. It should be included by the Bidder in its bid.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 3

SERVICE SUPPORT DETAILS

LOCATION OF NEAREST SERVICE CENTER:-

Phone No.	Fax / Telex No.	Status of Office working Days & Hours	Number of Engineers	Value of Min. Stock Available at all times	List of Models & Types of Equipment under Service during last 2 years	Name of the Organization where the equipment are currently under AMC/ Service

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 4

PERFORMANCE STATEMENT

(From 2017-20 onwards)

Name of the Firm _____

Order placed by (Complete Address of Purchaser)	Purchase Order No. & Date	Description and Quantity of ordered equipment	Value of order	Date of completion of delivery		Remarks indicating Reasons for late delivery, if any	Has the equipment been satisfactorily Functioning (Attach a certificate from the Purchaser /Consignee)
				As per Contract	Actual date of supply		
1	2	3	4	5	6	7	8

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 5
CAPABILITY STATEMENT (CS)

1. Name & Address of the Bidder:

2. Phone:

3. Classification

- (1) Manufacturer : Y/N
- (2) Authorized Agent: Y/N
- (3) Dealer : Y/N
- (4) Other (Please specify)

4. Plant:

Location:

Description, Type & size of building:

Is property on lease or free hold? If on lease, indicate date of expiry of lease in such case:

5. Type of equipment(s) manufactured and supplied during last 2 years.

Name of Equipment	Capacity/Size	Quantity Manufactured	Nos. of Purchase Orders on hand

6. Types of Equipment(s) supplied during last 2 years other than those covered under 5 above.

Name of Equipment	Capacity / Size & Model	Name of Manufacturer & Country of origin	Total Nos. of Equipment(s) Supplied in India	No. of orders on hand

7. Turnover for similar equipments sold in last two years:

8. Details of Testing facilities available :

- i) List of testing equipment available.
- ii) Give details of type tests, which can be carried out using testing equipment.
- iii) Details of the staff available for testing.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

Personnel/Organization: Give Organization chart for following indicating clearly the No. of employees at various levels.

Quality assurance	
Production	
Marketing	
Service	
Spare parts	
Administrative	

9. Nearest Service Centres to each of the destination of installations:

Location	
Phone No.	
Year of Establishment	

10. Details of Organization (Enclose details of Organization Chart & Span of Control)at Service Centre:

No. of skilled employees	
No. of Unskilled employees	
No. of Engineering employees	
No. of Administrative employees	
List of special repair/workshop Facilities available (Specify Details of Equipments And Test(s) those which are performed)	
The storage space available for spare parts (Sq.m)	
Value of minimum stock of spares available at all the service centre in Respective currency	
Value of the models/types by number of equipment serviced by the centre in the last twoyears	

11. Enclose details of services provided duly authenticated by certification from the user in each case
 12. Names of two buyers to whom similar equipment was supplied in the past and to whom reference may be made by the Purchaser regarding the bidder's technical and delivery ability.

Buyer 1; Address & Contact No

Buyer 2; Address & Contact No

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

**PRICE/
COMMERCIAL BID**

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

PRICE / COMMERCIAL BID

REF No.: VNIT/STR/MM/AP/JB/2020-21/02/2nd Call

dt.14/10/2020

Item : Simultaneous Thermal Analyzer (TGA-DSC)

“for Metallurgical & Materials Engineering Department

Sr. No	Item with Specifications	Qty	Basic Rate P.U. (Rs.)	GST % & Amount P.U. (Rs.)	Total Amount P.U. (Rs.)
1	Simultaneous Thermal Analyzer (TGA-DSC) (Specification as per enquiry)				
	Educational Discount				
	Total Cost F.O.R. V.N.I.T. Nagpur				

[Note - The bidder should offer / quote special educational discount for the Institute.]

[A] DUTIES & TAXES (if applicable):

1. Custom Duty if any : _____
2. GST @ _____% : _____
3. Freight/ Transportation : _____
4. Insurance @ _____% : _____
5. Packing & Forwarding : _____
6. Others, (if any) : _____
7. **Final Offer (Including Installation Charges & Taxes) FOR VNIT Nagpur** : _____

[B] Others Details (Enclosed)

1. EMD No. & Amount : No.: _____ Dt. ____/____/2020
2. Specification as per Requirements : Yes / No
3. Warranty/Guarantee : _____ Years
4. Delivery period : _____
5. Firms Registration Certificate : _____
6. Authorization Certificate : _____
7. Details of client lists : _____
8. GST Registration Certificate : _____
9. PAN / GST No. : _____
10. Others, (if any) : _____

Note: Price/Commercial Bid & other details should be furnished as per Institute’s prescribed format if failed, the Price / Commercial Bid is treated as unresponsive and will be disqualified.

The Firm/Company agrees to supply the above items for **final offer price (Rs. _____/- [In Words Rs.....) inclusive of duties & taxes at [A] above within the period specified in the Invitation for Quotations.**

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 6

FORMAT OF QUOTATION / BILL OF MATERIAL

REF No.: VNIT/STR/MM/AP/JB/2020-21/02/2nd Call

dt.14/10/2020

Sr. No.	Description of Goods	Specifications	Qty.	Unit	Quoted Unit Rate in Rs. /	Total Amount	
						In Figures	In Words
	Please refer enclosed "QFA/Bill of Material" for complete details.	As per "QFA/Bill of Material"					
						GST %	
						GST Amt.	

Gross Total Cost : Rs.

We agree to supply the above Goods/Equipment/Software in accordance with the technical specifications for a total contract price of (In figure) (In word Rs) within the period specified in the Invitation for Quotations. We also confirm that the normal commercial warrantee /guarantee of **36 months** shall apply to the offered goods.

Signature of Bidder
(Authorized Signatory)

Stamp:

Date:

FORM 7

PRICE SCHEDULE

REF No.: VNIT/STR/MM/AP/JB/2020-21/02/2nd Call

dt.14/10/2020

1	2	3	4	5					6	7	8
Schedule No	Item Description	Country of Origin	Quantity & Unit	Price for each unit					Unit Price	Total Price	GST (%) & Amount payable
				Ex-factory, Ex-ware House, Ex-Show Room, Off the shelf	Custom Duty, as per actual	Packing & Freight	Inland transportation insurance and other local Costs Incidental to delivery	Incidental services			(To be mentioned clearly as Extra)
				(a)	(b)	(c)	(d)	(e)	a+b+c +d+e	4 x 6	

Note: In case of discrepancy in unit price and total price, the unit price shall prevail.

Total Bid Price in figure _____

In word _____

Signature of Bidder _____

Name _____

Business Address _____

Place:

Signature of Bidder
(Authorized Signatory)

Stamp:

Date: