



VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA

PO- ENGINEERING COLLEGE BURLA, DIST-SAMBALPUR,
ODISHA-768018

No. VSSUT/MME/OURIIP - II/ 1957 /2023

Date: 11/08/2023

TENDER CALL NOTICE

Sealed tenders are invited in *single bid form (Price & Technical bids together)* from original manufacturers/authorized dealers for the supply of instruments/equipments for the **Dept. of Metallurgical & Materials Engineering**, VSSUT, Burla, Sambalpur, Odisha. The tenders shall reach the office of the undersigned through **Speed/Registered** post only **on or before 06.09.2023 up to 5.00PM.**

For more details, please visit our university website www.vssut.ac.in. The authority the reserve right to accept or reject all the tenders without assigning any reason thereof.

REGISTRAR

VSS University of Technology
Burla, Sambalpur, Odisha-768018

Ref. No. VSSUT/MME/OURIIP – II/ 1958 /2023

Date: 11 /08/2023

Copy to:

1. The Director, Department of I & PR, Govt. of Odisha, Bhubaneswar with request to publish the above advertisement in one issue of English daily **“THE NEW INDIAN EXPRESS (All India Edition, using the minimum space)”** at the I&PR approved /lowest rate. The bill may be sent in triplicate along with a copy of the paper in which the publication is made.
2. University Notice Board of VSSUT, Burla.
3. Comptroller of Finance for information and necessary action.
4. PA to Vice Chancellor for information of the Hon'ble Vice Chancellor.
5. PA to Registrar for information and necessary action.
6. The Dean F&P with a request to display the advertisement in university website.

REGISTRAR

VSS University of Technology
Burla, Sambalpur, Odisha-768018

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VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY: BURLA

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(Established by Govt. of Odisha in 1956 & upgraded in 2009 to A State Govt. University Covered Under Section 2(f) & 12 (3) of UGC Act.)

P.O : Engineering College, Burla (Siddhi Vihar), Dist : Sambalpur Odisha -768018, INDIA

Ph : 0663-2430211, Fax : 0663-2430204 Website : www.vssut.ac.in

Ref: No: VSSUT/MME/OURIIP – II/ 1957 /2023

Date: // /08/2023

TENDER CALL NOTICE

Sealed Bids (Single Bid) (Technical Bid and Price Bid together) are invited by the “The Registrar, Veer Surendra Sai University of Technology, Odisha” from the manufacturers/authorized distributors/ dealers for supply of Instrument, equipment, machineries etc. of reputed make (National/ International) for the Department of Metallurgical & Materials Engineering, VSSUT Burla, Odisha. The list of equipments and their technical specifications are mentioned in the different annexures.

The list of equipments

Sl. No	Description	Quantity	Remarks
1.	Electric Raising Hearth Furnace Max Temp upto 1600 °C	1 No.	Annexure -I
2.	Trinocular Stereo Zoom Microscope with Camera & Software	1 No.	Annexure -II

The Bidders may download the Tender Documents directly from the website available at <http://www.vssut.ac.in>.

TIME SCHEDULE:

- Tender fee Rs 2000/- is required for bidding the tender document (Non – Refundable)
- Date of commencement of downloading bidding document 15.08.2023 at 10.00 AM
- Last date and time for Receipt of bids 06.09.2023 up to 5.00 PM
- Time and date of opening of Tender & technical bid 08.09.2023 at 11.30 AM
- Place of Opening of Tender and Address for Communication and Receipt of Bid Documents

THE REGISTRAR

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, ODISHA

At- Burla, Po - Burla Engineering College, Dist-Sambalpur-768018,

Tel. No – 0663 - 2430211 Fax No – 0663 -- 2430204

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General Terms and Conditions

GENERAL TERMS & CONDITIONS OF CONTRACT FOR SUPPLY, INSTALLATION AND DEMONSTRATION OF THE INSTRUMENTS, EQUIPMENT, MACHINERIES REQUIRED FOR DEPARTMENT OF METALLURGICAL & MATERIALS ENGINEERING, VSSUT, BURLA, ODISHA.

1. Document Establishing Bidder's Eligibility & Qualification

The Bidders shall furnish as part of the Bid the following Documents establishing Bidder's eligibility and qualification to the Purchaser's satisfaction.

- a. Manufacturer / Authorized Distributor / Dealer having valid license / certificates for the quoted item and the direct Importers holding valid Import License Manufacturer / Authorized Distributor / Dealer of the product are eligible to participate in the Bid.
- b. Bidders should have **ISI or equivalent** certification for quoted instruments and equipment. However, the Purchaser shall have the right to consider the items where ISI or equivalent certification is not applicable.
- c. The Bidder whether manufacturer/ distributor/ dealer must have experience of supply and installation of the quoted items in reputed Government Institutions / Public Undertakings / reputed Private Institutions within India during last preceding 3(Three) years reckoned from the date of bid opening and the details must be submitted along with documentary proof.
- d. The Bidders shall have to produce document in support of their service associates **nearest to Bhubaneswar/ Sambalpur**, Odisha.
- e. Bidder shall have to provide operational Training for **Machineries** to one Official of each consignee at Suppliers Plant or Consignee site **at least for 7 days whichever is suitable to Purchaser**.
- f. The Bidder shall quote items of one reputed Brand/model with all accessories in complete to perform functionality of Equipment/Machinery.
- g. Manufacturer has to submit copy of Industry Registration of quoted products and Tax Registration Certificate issued from Competent authority. In case of Authorized Distributor / Dealer/Suppliers have to submit Manufacture authorization along with copy of above documents of Manufacture Industry.

2. Document Establishing Goods Eligibility

The instruments and equipment offered against the schedule of requirement of instruments, equipment and Machineries should be in accordance with the stipulated specifications and of one reputed brand/model (**N.B: Variation in specification is allowed upto $\pm 5\%$ in case of Machineries/Equipments**)

- a. The documentary evidence establishing the brand and the model may be in the form of literature, pamphlets, manuals, drawing, circuit diagram etc.
- b. Detailed description of instruments and equipment with essential technical and performance characteristics may also be furnished.
- c. The Bidders should clearly mention in their bid regarding the compatibility of the various equipment or the individual units.
- d. The quantity shown in the bid can be increased or decreased to any extent depending upon the actual requirement.
- e. The instruments and equipment should have testing certificate for its satisfactory functioning.

3. Technical Bid & Price Bid together in a single bid

The following document should be submitted

- a. Technical details of the equipment and machineries as per **Annexure - I & II**
- b. Copy of the manufacturing license/ import license/ Authorized Distributor/ Dealer certificates
- c. Copy of the authorization from the Manufacturing Company in case of Authorized Distributor
- d. Dealer in **Annexure III** along with Manufacturer Industry Registration and Tax Registration Certificate.
- e. GST clearance certificate up to **date** where applicable.
- f. Performance/ Market standing certificate establishing that the Bidders have executed supply of similar items as mentioned in Schedule of Requirement of instruments and equipment to different Govt. Organizations/ Government PSUs / reputed Private Institutions. (Proof of documents)
- g. Copy of the IT PAN Card.
- h. Detail name, address, telephone no. fax, e-mail of the firm and of the Director/ Managing Director/ Proprietor of the firm (As per **Annexure - IV**)
- i. Address, Telephone No., e-mail, Fax of the Branch Office/ Contact Person/ Liaisoning Office in Odisha. (As per **Annexure - IV**)
- j. Power of Attorney/ Authorization to a person for liaisoning and monitoring the business on behalf of the manufacturer / bidder but not entitled to raise the bills.

- k. Document if any to establish the reorganization of the manufacturing unit in respect of ISO or equivalent.
- l. **The original bid document signed & sealed by authorized person in each page as a token of acceptance of all terms and conditions of the tender with original receipt.**
- m. Documentary evidence establishing that the instruments & equipment and ancillary services to be supplied by the Bidders shall confirm to the Bidding Document
- n. The bidder has to furnish technical details of the equipments and machinery with **one make & model** as per **Annexure - V**.
- o. Any deviation in the specification of the item including standard accessories / optional accessories in complete for functionality of Machine should be marked in **bold letters. (N.B: Variation in specification is allowed upto $\pm 5\%$ in case of Machineries/Equipments)**
- p. Details of foundation drawing for instruments and equipment, if any, should be provided.
- q. The details of the service station / service associates nearest to Bhubaneswar/Sambalpur shall have to be submitted to qualify in the technical bid.
- r. Willingness to provide operational Training for Machineries to one Official of each consignee at Suppliers Plant or Consignee site **at least for 7 days whichever is suitable to Purchaser**
- s. The hard copy of price bid giving the rates for various instruments & equipment and other items should be submitted
- t. Each quoted item and all accessories should cover the warranty / guarantee for **2(two)** year from the date of commissioning.
- u. The bidders are required to submit the list of the spare parts required for the machine as well as the list of the dealers/ Distributors of the spare parts nearest to Bhubaneswar, Odisha for its availability.

4. SUBMISSION OF BIDS

Sealing and Marking of Bids

Bid should be submitted in Single Bid system containing two parts as detailed below.

Part A: Technical Eligibility

Part B: Price Bid

The cover of the bid should be following indication:

- I. Name of Dept.: _____
- II. Reference No of Bid _____

- III. Bid regarding _____
- IV. Due date & time for submission of the Bid _____
- V. Due date & time for opening of the Bid _____
- VI. Name of the Firm _____


REGISTRAR
VSSUT, Burla
V.S.S. University of Technology
Burla, Sambalpur, Odisha-768018

Technical Specification of “High Temperature Muffle Furnace”

Important Technical features:

Description	Technical Specifications
Furnace type	High Temperature Muffle Furnace
Working chamber dimension	250 mm L x 250 mm W x 250 mm H
Maximum temperature	1600 °C (3 to 4hrs of shocking per batch with programmable)
Continuous temperature	1200 - 1500 °C
Heating element	As require
Voltage	440V, +/- 10%, 50Hz, +/-5%, Three phase with neutral supply
No. of control zone	Single Zone
Type of temperature controller	Programmable 8 Segments or 30 Segments. or 16 Segments. Make: - Reputed.
Number and location of the thermocouples	Two “B” type Thermocouples must be provided; One thermocouple will be used for measurement of the temperature and the other for over temperature protection.
Transformer	Isolated Transformer as required
Heating rate	Maximum rate of heating 8 °C per minute and timer of reach the temperature 3 to 4 hours. Continuous shocking 1600 °C for 4 hours and 1450 °C for 6 hours.
Temperature Accuracy	High temperature accuracy (+/- 2 °C for central)
Control Panel	All switch gear reputed make with ISI/CE marked
Insulation	The insulation inside the furnace should be made out of vacuum formed ceramic fiber block of Zirconia grade with a density of at least 200 kg/m ³ . The insulation should have low shrinkage as compared to conventional ceramic fiber blankets.
Furnace Casing	The furnace casing should be fabricated from mild steel plates duly powder coated. The furnace should have a suitable vent at the top/back for exhaust. The outside of the furnace should be suitably powder coated to prevent corrosion and rusting. The Furnace should be able to achieve low skin temperature due to

	accelerated air circulation between insulation and outer casing by means of exhaust fan.
Furnace Door	<p>The furnace door operation will be manual with hinge joint on one side and suitable handle lever on the other side. The door should also be insulated like side walls to reduce heat loss. The furnace should be provided with a viewing cap.</p> <p>Manual screw type clamps will be provided for proper sealing of door in closed condition. Limit switch will be provided to ensure switching off the heaters once the door is opened.</p>
Muffle	The inner muffle should be made of SS 304 material for withstanding the temp. of 1500 °C and the wall thickness 3 - 5mm.
Electrical Connections	<p>The furnace should be provided with an instrument cum control panel. The panel should house all the temperature control instruments as stated above. It should also house the switch gear components to supply power to heating elements.</p> <p>All electrical components must have CE/Suitable safety certifications. The vendors are required to provide certification of each electrical components used.</p>
Safety features	<ul style="list-style-type: none"> ➤ Excess temperature protection. ➤ Thermocouple breakage alarm ➤ Limit switch to cut off heaters while opening door. ➤ Earthing terminal to avoid electrical current leakage. ➤ Fuse Unit / Circuit breaker to cut off the supply in case of circuit faults.
Accessories	One Minimum Repair Kit of Consumables (Electrical, Fittings, and Seals) should be provided as Spare Kit.
Warranty	24 months from installation

Technical Specification of “Trinocular Stereo zoom Microscope”**Important Technical features:**

Description	Technical Specifications
Description	<ul style="list-style-type: none">• Supply and Installation of Trinocular Stereo zoom Microscope with camera & software for examining metallic sample
Standard test piece dimensions	<ul style="list-style-type: none">• Optical System with 450 Inclined Viewing Head
Viewing Head	<ul style="list-style-type: none">• Trinocular Head• Inclined at 45 degrees• Rotatable 360 degree• Interpupillary distance 54-76mm
Eyepiece	<ul style="list-style-type: none">• WF10x /Φ22 mm• Diopter adjustment tube on both Eyepieces
Zoom range	<ul style="list-style-type: none">• 0.67X to 4.5X
Zoom Ratio	<ul style="list-style-type: none">• 1:6.7
Magnification	<ul style="list-style-type: none">• 6.7X to 45X.
Working Distance	<ul style="list-style-type: none">• 105 mm
Illumination	<ul style="list-style-type: none">• LED Reflected illumination 3W• LED Transmitted illumination 3W
Microscope Camera	<ul style="list-style-type: none">• Sensor Size :1/2.8"• Resolution :5 MP• Pixel Size :2.0 μm x 2.0 μm• Frame Rate :22 fps• Data Interface: USB2.0• Color/Mono: Color Exposure• Mode: Auto/Manual
The Supplier	<ul style="list-style-type: none">• Supplier should have commissioned at least 5 no. machines to reputed research/ government establishments• At least 3 user performance certificates for similar type of machines to be attached to the quotation.• Manufacturer of machine should provide certificate on their letter head for “Spares and parts can be supplied up to 10 years from date of supply.

	<ul style="list-style-type: none">• Supplier Will provide certificate of calibration and inspection.
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MANUFACTURES' AUTHORISATION FORM

No. _____ / Date _____ /

To

The Registrar,
VSSUT Odisha
Burla, Sambalpur.

Dear Sir, Bid No. _____

We _____ who are established and
reputable manufacturers of _____ having factories at
_____ (Address of Factory)
do thereby authorize M/s. _____ (Name and address of Agent) to
submit a bid and sign the contract with you against the above bid.

* No company or firm or individual other than M/s. _____ are authorized to bid
and conclude the contract in regard to this business against this specific invitation for bid.

We hereby extend our full guaranty and warranty as per general conditions of contract for the goods and
services offered by the above firm against this bid.

Yours faithfully,
(Signature for and on behalf of Manufacturers)

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 bind the manufacturer. It should be included
original by the Bidders in its bid.

- This para should be deleted for simple items where manufacturers sell the product through
different stockiest.
- The Supplier/Managing Director of the Company (if the supplier is a Company) or the Power of
Attorney Holder having specific power to sign the contract can only sign the contract/execute the
agreement.

DETAILS OF THE BIDDERS

Bid Reference No.

Name and address of the Bidder:

01 Name of the bidder

- a) Full postal address
- b) Full address of the premises
- c) Telegraphic address
- d) Telephone number
- e) Fax number
- f) E mail:
- g) PAN No
- h) TIN No

02 Total annual turn-over (value in Rupees)

03 Quality control arrangement details

04 Test certificate held

- a) Type test
- b) BIS/ISO certification
- c) Any other

05 Details of staff

- a) Technical
- b) Skilled
- c) Unskilled

06 Branch Office/ Contact Person/ Liaisoning Office in Odisha.

- a) Address
- b) Telephone No.
- c) e-mail,
- d) Fax

Signature and seal of the Bidder

Technical details of the Machineries & Equipments to be supplied by the bidder

Bid Sl No. of the item	Tender specification	Bidders Specification with make and model no (Enclose manufactures catalogue / brochure for each item)	Deviation if any With university specification

Signature and seal of the Bidder