

VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA, ODISHA  
(Formerly University College of Engineering, Burla)

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**QUOTATION CALL NOTICE**

No. VSSUT/MECH/ 1639 /2015

Date: 08.04.2015

**Sub: Quotation for supply of the following Article/Materials, their technical specifications are specified in different annexures.**

The Registrar, "Veer Surendra Sai University of Technology (VSSUT), Burla" invites sealed quotation from intending reputed and experienced firms for Supply, Installation and Maintenance of equipment for **Mechanical Engineering Department** (the list of equipment are mentioned in the following annexure) at the University website. This quotation documents must reach to "The Registrar, Veer Surendra Sai University of Technology, Burla, Sambalpur-768018 (Odisha)" by 5 PM of Date 30th APRIL 15 under a sealed cover by registered/speed post only. The quotations received after the due date and time is liable to be rejected. Quotation by FAX/ e-mail will not be entertained.

Sl. No.	Description of articles/materials/machineries/services	Quantity	Remarks
1.	Digital Mass Flow Controller of Methane (0-20 SCCM), Nitrogen (0-500 SCCM), Argon (0-500 SCCM) and Hydrogen (0-500 SCCM) with Controller, Connecting Cables, Fittings Swagelok	One each	Appendix-I
2.	Handheld Surface Roughness Measurement Machine, Standard Stylus, 2D Analysis Software, Cables, Battery	One set	Appendix-II
3.	Apple make tablet (ipad Air) silver colour having Wi-Fi + Cellular technology with 64/128 GB capacity	One set	-
4.	Metal/Ceramics Micro/Nano powders of diamond, Iridium, Strontium titanate, Strontium titanate single crystal substrate, Zirconium(IV) oxide-yttria stabilized nanopowder, MoS <sub>2</sub> Powder, WS <sub>2</sub> Powder	Minimum amount of each one	Appendix-III
5.	DC Power supply Input: 230V AC, Output:0-2000V DC, DC Variable Output Current: 0-500mA (Setable)	One set	-

**Terms and Conditions**

1. The undersigned reserves the right to accept or reject any/all quotations without assigning any reason thereof.
2. The quotationer shall quote quality specifications, if any, of the articles/materials/services, unit price and taxes and other duties liable, if any, on the cost separately.



3. The period of warranty of services/replacement, if any, shall be indicated clearly.
4. Vendors must give the comparative statement each of equipment separately with specified university technical specification. (By simply copying the university technical specification liable to rejected by competent authority).
5. The quotation must be submitted in separately each and every equipment. If, same company quoting more than one equipment must be submitted in two or more separate sealed envelope clearly marking the equipment name and quotation call on the outer cover.
6. The vendors should be a registered firm in India, having CST/VAT/PAN/TIN/Service Tax etc.
7. If any clarification required on your technical specification, competent authority may call the intending firms to visit the University, at their own expense during office hours. It doesn't mean that university going to place the order to that vendor. The University reserves the right to call the vendors and to conduct negotiations, if necessary and has the right to select more than one vendor for one or more items at its discretion.
8. This quotation documents must be filled in completely and signed by the authorized signatory of the vendor on all the pages as acceptance of all the technical specifications, terms and conditions laid in this quotation document.
9. The University reserves the right to reject any or all the quotations without assigning any reason and the decision of the university shall be final & binding.
10. The element of applicable taxes is required to be shown separately and distinctly.
11. The University is not responsible for delay, loss or non-receipt of quotation documents sent by the post.
12. Any deviation in terms and conditions shall not be entertained. If it is necessary to change any of the terms and conditions of the contract during the contract execution process, it should be agreed upon by both the parties.
13. The quotation should contain the following documents.
  - I. This quotation document signed on each page by the authorized signatory of the bidder.
  - II. Self-attested copy of PAN, VAT registration, VAT clearance and service tax and incorporation etc., issued by appropriate government authority for the required services with seal of the quotation.
  - III. List of user Clients and documents related to experience of the bidder along with address and contact no.
  - IV. Detailed specification of product along with the service support.
  - V. A technical capability document describing the relevant facilities and services available with them.
  - VI. Any other documents in support of the eligibility of the Vendor.

Yours faithfully,

  
**REGISTRAR**  
REGISTRAR  
V.S.S. University of Technology  
Burla, Sambalpur, Odisha-768019

**VEER SURENDRA SAI UNIVERSITY OF TECHNOLOGY, BURLA, ODISHA-768018**

No. VSSUT/MECH/ 1639 /2015

Dated: 08.04.2015

**QUOTATION CALL NOTICE**

Sealed quotations are hereby invited for supply of MFCs, surface roughness measurement machine, Apple make Tablet, metal/ceramics micro/nano powders, DC power supply to VSSUT Burla, in the District of Sambalpur, Odisha. The interested firms/agencies/suppliers/dealers/SSI Units can log on to the University Web site [www.vssut.ac.in](http://www.vssut.ac.in) for verification of the other terms and conditions in details.

Sd/-

REGISTRAR

No. VSSUT/MECH/ 1640(4) /2015  
Copy to:-

Date: 08.04.2015

1. M/s Display Lines, 219, Saheed Nagar, Bhubaneswar-751007 with request to publish the above advertisement in one issue of the all Odisha daily edition of "The Samaja" and "The Times of India" 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. Dean F & P, with a request to upload the notice and documents in the University website.
4. PA to Hon'ble Vice Chancellor for kind information.

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

**APPENDIX-I: DETAIL SPECIFICATION OF MFC, CONTROLLER AND CABLES**

Sl. No.	Description of the items with specifications	Quantity
1.	Elastomer Sealed, Digital Mass Flow Controller, Full Scale Flow Range: 20 SCCM, Fittings: Swagelok 4 VCR male, Connector: Analog 0-5 V DC (9 pin D connector), Seals: Viton, Valve: Normally Closed, Calibration Gas: Methane (CH <sub>4</sub> )	1
2.	Elastomer Sealed, Digital Mass Flow Controller, Full Scale Flow Range: 500 SCCM, Fittings: Swagelok 4 VCR male, Connector: Analog 0-5 V DC (9 pin D connector), Seals: Viton, Valve: Normally Closed, Calibration Gas: Argon (Ar)	1
3.	Elastomer Sealed, Digital Mass Flow Controller, Full Scale Flow Range: 500 SCCM, Fittings: Swagelok 4 VCR male, Connector: Analog 0-5 V DC (9 pin D connector), Seals: Viton, Valve: Normally Closed, Calibration Gas: Hydrogen (H <sub>2</sub> )	1



4.	Four-Channel Mass Flow Controller Readout	1
5.	Power Cables to connect from digital MFCs to MFC Controller	3

#### APPENDIX-II: DETAIL SPECIFICATIONS OF SURFACE ROUGHNESS TESTER

Items	Specifications
Gauge Range	400 um 100 um 10 um
Resolution	50 nm 10 nm 5 nm
Display Size	100mm X 50mm
Noise floor (Ra)	150 nm 100 nm 50 nm
Repeatability (Ra)	1% of value + noise 0.5%
Pickup type	Inductive
Gauge force	150 - 300 mg
Stylus tip radius	5 µm
Measurement type	Skidded
Calibration Process	Automated software calibration routine
Maximum X-Axis range	25 mm or above
PC Connection	Full data analysis with supported software
Software	Levelling, Symmetries, Zoom, Material Ratio Curve, Distance Measurement, Area of a hole/peak
Data storage	Internal 100 measurement results, 1 raw profile
USB	(4GB to be supplied) >39,000 raw profiles, up to 100,000 results per batch (>70 batches)
Parameters Standards	ISO 4287, ISO 13565-1, ISO 13565-2, ASME 46.1, JIS 0601, N31007

#### APPENDIX-III: DETAIL SPECIFICATIONS OF POWDERS

Sl. No.	Sigma Aldrich Product No.	Description of the Items	CAS No.	Quantity (In grams)
1.	636428-5G	Diamond nanopowder, <10 nm, 97% trace metals basis	7782-40-3	5
2.	209686-500MG	Iridium powder, 99.9% trace metals basis	7439-88-5	1
3.	517011-50G	Strontium titanate nanopowder, <100 nm particle size, 99% trace metals basis	12060-59-2	50
4.	634670-1EA	Strontium titanate single crystal substrate, <110>, ≥99.99% trace metals basis	12060-59-2	-
5.	572349-25G	Zirconium(IV) oxide-yttria stabilized nanopowder	114168-16-0	25
6.	234842-100G	MoS <sub>2</sub> Powder, 99% Purity, Particle Size less than 2 µm	1317-33-5	100
7.	243639-50G	WS <sub>2</sub> Powder, 99% Purity, Particle Size less than 2 µm	12138-09-9	50