

**Format for Submission of Expression of Interest and details specification of  
Thermograph Metric Analyser**

**Brief about Expression of Interest.**

Name of the Equipment/ Good	<b>Thermograph Metric Analyser</b>
Location of the Supply	Veer Surendra Sai University of Technology, Burla, Odisha-768018
Name of Authority	Vice-Chancellor
Eligible firms	The firm should be the OEM/Authorized Dealers of the OEM having experience in supply and maintenance of the same item earlier.
Date of Submission of EOI	Last date is 28.11.2019
Contact person	Nodal Officer, Procurement, TEQIP-III, VSSUT, Burla
Phone Number of Contact person	9437177717
Email	<a href="mailto:pcvssutb@gmail.com">pcvssutb@gmail.com</a>
Address for submission of EoI	<u>Nodal Officer, Procurement, TEQIP-III</u> Veer Surendra Sai University of Technology, Burla, Odisha-768018.
Selection Process	Stage1: Expression of Interest (EOI); Stage 2: Quotation proposal submission in TEQIP-III format
<ul style="list-style-type: none"> <li>• <b><u>The EoI will be submitted by Speed Post/Registered Post only</u></b></li> <li>• The sealed envelope containing the EoI should be super scribed with “<b>Expression of Interest (EoI) for supply of Thermograph Metric Analyser in Department of Chemical Engineering</b>”</li> </ul>	

**Specifications:-**

- Temperature Range: 25 °C to 1500 °C
- TGA should have ultra-microbalance with minimum 0.1 g sensitivity with top load design.
- Balance Design: Single Beam vertical design with exchangeable sensor.
- Furnace cooling down: 1500 °C to 30 °C within 20 minutes with built-in forced air cooling.
- Forced air cooling system should be provided
- Built-in Mass Flow controller for two difference gases.
- Heating rate 0.1 to 200 °C/min or better
- TGA and DTA should operate up to 1500 ° C.
- The gas flows to be controlled through built-in Mass Flow Controller and Software.
- The flows to be set through software as well as gas switching at the desired temperature.
- Sample capacity 2000 mg or higher
- The system should have built-in DTA mode with simultaneous scanning facility in single run.
- DTA signal should have provision to convert into DSC mode/signal for quantitative studies.
- Calorimetric precision should be ± 2 % or better
- All the three curves/parameters like TGA/DTA/DTG or DSC to be displayed on single screen.
- Software should be provided to determine the kinetic analysis of the thermal degradation
- Software should have the facility for real time update of spectral information.
- Software should be provided to determine the area under the peak

- 10 numbers of crucibles (sample holders) should be provided which will be operated at 1500 °C temperature.
- Filled Nitrogen gas cylinder of capacity 30 litres and Oxygen cylinder of capacity 30 litres along with all the necessary attachments such as regulators, SS/ Copper pipe should be provided as per the requirements
- Flow controller such as rota meters for air and nitrogen flow should be provided
- Required connection pipes and fittings should be provided
- Instrument should be provided with three years of Annual Maintenance charges
- Demonstration should be given after installation of the instrument
- Instrument received any damaged condition will be replaced
- Provision to collect the result in excel file, ASCII file, PDF file and Image file
- The result should be obtained in CD and Pen-drive
- A CD of TGA software should be provided after installation
- Operation manual should be provided with the instrument at the time of installation
- Should be supplied with i7 processor PC, Printer and 1KVA online UPS.
- All necessary attachments should be provided for the smooth running of the instrument

## APPLICANT'S EXPRESSION OF INTEREST

To,  
Nodal Officer, Procurement, TEQIP-III  
TEQIP Cell  
Veer Surendra Sai University of Technology  
PO- College of Engineering, Burla  
Sambalpur - 768018  
Odisha

**Sub: Submission of Expression of Interest for supply of ..... with the given Technical specification under TEQIP-III.**

Dear sir

In response to the Invitation for Expressions of Interest (EOI) published on \_\_\_\_\_ for the above purpose, we would like to express interest to carry out the above proposed task. As instructed, we agree to supply the equipment /item with the following Technical specification:

### **Technical specifications**

### **Organizational Details :**

1. Name of the Organization
2. Complete postal address with pin code:
3. GST No:
4. PAN No.:
5. Telephone No.
6. Fax Number
7. Mail Id:
8. Name of representative:
9. Representative Mobile Number :
10. Representative E mail Id:

**Experience in related fields:** Attach the purchase orders if supplied to the institutions or organizations of repute. This is a key requirement to consider a firm for inviting quotation.

### **Additional information (if any):**

**Declaration:** We hereby confirm that we are interested in supplying the above equipment/item as per the given Technical specification to VSSUT, Burla under TEQIP III and we certify that our organization has not been blacklisted during last three financial years. All the information provided herewith is genuine and accurate.

Sincerely Yours,

Signature of the applicant  
[Full name of applicant]  
Stamp.....  
Date:

**Note: This is to be furnished on the letter head of the organization and signed in every page.**