

**Format for Submission of Expression of Interest and details specification of
Gas Chromatography Single Quadrupole Mass Spectrometer (GC-MS):**

Brief about Expression of Interest.

Name of the Equipment/ Good	<u>Gas Chromatography Single Quadrupole Mass Spectrometer (GC-MS):</u>
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	<u>pcvssutb@gmail.com</u>
Address for submission of EoI	<u>Nodal Officer, Procurement, TEQIP</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"> • <u>The EoI will be submitted by Speed Post/Registered Post only</u> <p>1) The sealed envelope containing the EoI should be super scribed with “Expression of Interest (EoI) for supply of <u>Gas Chromatography Single Quadrupole Mass Spectrometer (GC-MS)</u> in Department of Civil Engg.”</p>	

Specifications:-

GC-MS system	[Quantity:1]
Gas Chromatograph:	<ol style="list-style-type: none"> 1. Fully Automated Microprocessor controlled GC with extensive self-diagnostic facility 2. Should have an operating range of few degrees above ambient to 450 °C. Maximum Heating Rate: 120°C/min or better and Oven Cool-Down time should be 450 °C to 50 °C in <4 minutes 3. Typical Retention Time Repeatability: <0.0008 min 4. Typical Peak Area Repeatability: <0.5 % RSD 5. Number of Ramps/Plateaus: 32/33 or more
Split/Splitless Injector : 01 no.	<ol style="list-style-type: none"> 1. Split/Splitless injector. 2. The injector should be capable to operate with capillary, wide bore and packed columns 3. The injector needs to be optimized, modular thermal profile for split and splitless injection with a cold head. 4. Maximum Temperature: 400 °C
Flame Ionization Detector (FID) – 01 no.	<ol style="list-style-type: none"> 1. Minimum Detection Limit (MDL): <1.4 pg C/s 2. Sensitivity: >0.03 Coulombs/gC 3. Linear Dynamic Range: >10⁷ (±10%) 4. Maximum Temperature: 450 °C in steps of 0.1 °C
Mass Spectrometer Detector (Single Quadrupole): 01 no.	<ol style="list-style-type: none"> 1. Should be user friendly & hassles free maintenance. 2. The source should be made of solid, non-coated, inert material. 3. Electron Impact Ionization (EI), with full scan (FS), SIM, and FS/SIM simultaneous within sample injection 4. Mass Range: 1.2–1100 u or more with unit mass resolution; 5. Pumping Systems: 66 L/s or more Turbomolecular pump; 6. Scanning speed: 20,000 u/s or more. 7. Dual filament assembly with improved filament lifetime and effective regulation of emission current across the available emission current range is preferable. 8. Transfer Line Temperature: Up to 400°C
Columns:	Capillary Column – 2 nos.
Computer and Printer for GC-MS	Suitable Branded Computer with installed software for running the GC-MS & HP Laser Printer -1 set
Gas Cylinders, regulator with gas	UHP guard Helium, Nitrogen, Hydrogen & Zero Air Gas Cylinder with Double Stage Pressure Regulator and gas purification panel – 01 no. each
On-line UPS:	Branded On-line 10 KVA UPS with 30 Min. back-up.
Warranty & AMC:	Minimum 3 years Warranty and 2 years AMC after expiry of warranty period.

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.