

**Format for Submission of Expression of Interest and details specification of
Equipments for Instrumentation Lab**

Brief about Expression of Interest.

Name of the Equipment/ Good	Equipments for Instrumentation Lab.
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 24.02.2020
Contact person	Nodal Officer, Procurement, TEQIP-III, VSSUT, Burla
Phone Number of Contact person	9437177717
Email	pcvssutb@gmail.com
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> • The sealed envelope containing the EoI should be super scribed with “Expression of Interest (EoI) for supply of equipments for Instrumentation lab in Department of ETC” 	

Instrumentation lab requirements

Sl. No	Name of the instrument	Specifications
1	Optical transducer trainer	Transducers: 4 Nos. a. Photoconductive Cell b. Photovoltaic Cell c. Phototransistor d. PIN Photodiode Light Source: Filament Lamp Signal Conditioning Circuitry: 1. Power Amplifier 2. Current Amplifier 3. DC Amplifier 4. Comparator 5. Electronic Switch 6. Buffer Power Supply: 100 V – 240V AC, 50Hz Power Consumption : 2 VA (approx.) Operating Conditions : 0-40° C, 85% RH
2	Temperature transducer trainer	Transducers : 4 Nos. N.T.C. Thermistor Platinum R.T.D. K Type Thermocou IC Temperature Sensor Heating Element : Wirewound resistance 47W, 10 W Signal Conditioning Circuitry : Instrumentation Amplifier X100 Amplifier DC Amplifier Comparator Electronic Switch Power Supply: 100 V – 240V AC, 50Hz Power Consumption : 2 VA (approx.) Operating Conditions : 0-40° C, 85% RH
3	LVDT Trainer	Measurement Range : 20 mm (± 10 mm) Excitation Frequency: 4 KHz (approximately) Excitation Voltage : 4 V (approximately) PP Sensitivity : 10 mV DC/ mm Linear Range : Full Scale Signal conditioner output : 0.1 V DC or Maximum Displacement Display: 3½ Digit LED with Polarity Indicator Micrometer Scale: 25 mm Micrometer Least count: 0.01 mm Power Consumption : 2 VA (approximately)
4	Strain gage trainer	Strain Gauge (350 Ω) :4 nos. Gauge factor : 2.1 Maximum bearable weight : 500 gm Bridge Voltage : +8 V DC Bridge configuration : Full Bridge Display : 3½ Digit LED
5	Oscilloscope	Bandwidth : DC-20 MHz (-3 dB)

	Trainer	<p>Risetime : 17.5 ns (approx.) Deflection coefficients : 12 calibrated steps 5 mV / cm – 20 V /cm Accuracy : ± 3 % Input Impedance : 1 MW 30 pF Input coupling : DC – AC – GND Maximum Input voltage : 350 V (DC Peak AC) Pre-Amp, Final Amp Outputs at Test Points. Input Impedance : 1 MW 30 pF</p>
6	PID CONTROLLED KIT	<p>Proportional Band : 5% to 55%. Integrator : 1 msec to 11 msec ON/OFF controller : ON = 12 V, OFF = -12 V On board Generator : Square Wave & Triangular Wave Generator of 0-156 Hz, Two Variable DC Supply +6V,+10V</p>
7.	Digital storage Oscilloscope	<p>Type : Digital Cathode Ray Oscilloscope Display : 8" Color LCD, TFT display, 800×600 pixels, 65535 colors Channel Isolation : 50Hz : 100 : 1 ; 10MHz : 40 : 1 Bandwidth : 30 MHz Sweep Rate : 4ns/div – 100s/div No. of Channels : 2+1 (External) Record Length : 10K Sample Rate : 250MS/s Interpolation : (x)/x Max Input : 400V (DC+ACp-p) Rise Time : <14ns</p>
8	Wheatstone bridge trainer	<p>On board test points to observe signals On board schematic diagram</p>
9	Schering Bridge Experiment Board and Trainer Kit	<p>On board test points to observe signals On board schematic diagram</p>

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:
11. Annual Turnover of the firm/company.

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.