

INVITATION FOR QUOTATION

TEQIP-III/2018/ycma/Shopping/16

12-May-2018

To,

Sub: Invitation for Quotations for supply of Goods

Dear Sir,

1. You are invited to submit your most competitive quotation for the following goods with item wise detailed specifications given at Annexure A,B,C,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Electromagnetic Theory Lab(Specification: Annexure C)	1	30	TEQIP COORDINATOR, C/O DEPARTMENT OF ELECTRONICS ENGINEERING, YMCA UNIVERSITY OF SCI AND TECH FARIDABAD	YES
2	EMI – EMC Lab (Specification: Annexure B)	1	30	TEQIP COORDINATOR, C/O DEPARTMENT OF ELECTRONICS ENGINEERING, YMCA UNIVERSITY OF SCI AND TECH FARIDABAD	YES
3	Vector Network Analyzer with Spectrum Analyzer (Specification: Annexure A)	1	30	TEQIP COORDINATOR, C/O DEPARTMENT OF ELECTRONICS ENGINEERING, YMCA UNIVERSITY OF SCI AND TECH FARIDABAD	YES

2. Government of India has received a credit from the International Development Association (IDA) towards the cost of the **Technical Education Quality Improvement Programme[TEQIP]-Phase III** Project and intends to apply part of the proceeds of this credit to eligible payments under the contract for which this invitation for quotations is issued.

3. Quotation,

3.1 The contract shall be for the full quantity as described above.

3.2 Corrections, if any, shall be made by crossing out, initialing, dating and re writing.

3.3 All duties and other levies payable by the supplier under the contract shall be included in the unit price.

3.4 Applicable taxes shall be quoted separately for all items.

3.5 The prices quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account.

3.6 The Prices should be quoted in Indian Rupees only.

4. Each bidder shall submit only one quotation.

5. Quotation shall remain valid for a period not less than **55** days after the last date of quotation submission.

6. Evaluation of Quotations,

The Purchaser will evaluate and compare the quotations determined to be substantially responsive i.e. which

6.1 are properly signed ; and

6.2 confirm to the terms and conditions, and specifications.

7. The Quotations would be evaluated for all items together.

8. Award of contract:

The Purchaser will award the contract to the bidder whose quotation has been determined to be substantially responsive and who has offered the lowest evaluated quotation price.

8.1 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.



- 8.2 The bidder whose bid is accepted will be notified of the award of contract by the Purchaser prior to expiration of the quotation validity period. The terms of the accepted offer shall be incorporated in the purchase order.
9. Payment shall be made in Indian Rupees as follows:
- Delivery and Installation - 0% of total cost**
- Satisfactory Acceptance - 100% of total cost**
10. All supplied items are under warranty of **36** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **13:00** hours on **28-May-2018** .
12. Detailed specifications of the items are at Annexure I.
13. Training Clause (if any) **YES**
14. Testing/Installation Clause (if any) **YES**
15. Information brochures/ Product catalogue, if any must be accompanied with the quotation clearly indicating the model quoted for.
16. Sealed quotation to be submitted/ delivered at the address mentioned below,
YMCA University of Science & Technology, NH-2, Sector-6, Delhi- Mathura Road, Faridabad - 121006,
Haryana
17. We look forward to receiving your quotation and thank you for your interest in this project.

Washishata
18-5-2018
TEQIP-III Coordinator/Co-coordinator
YMCA University of Science & Technology
Faridabad-121006
(Authorized Signatory)

Name & Designation

Annexure: A

4 GHz Handheld Vector Network Analyzer with Spectrum Analyzer Qty 1		
S. No	Parameter	Required Specification
1	Frequency range	30 kHz to 4 GHz , full two Ports
2	RF Connector	N type (female)
3	Aging rate	± 1 ppm/yr
4	Dynamic range	100 dB for upto 4 GHz
5	S-parameter measurement	S11, S21, S12, S22 (both Magnitude and Phase)
6	IF bandwidth	10 Hz to 100 kHz
7	Data points or resolution	101, 201, 401, 601, 801, 1001, 1601, 4001, 10,001 , Arbitrary number of points settable through SCPI
8	Test port output power (nominal)	3dBm : > 625 MHz to 3 GHz
9	Minimum Output Power Level	≤ -45 dBm, nominal Power settable in 1 dB steps across power range (Settable in High, Low and Manual)
10	Trace Noise (-10 to 55 °C) at 300 Hz IF bandwidth	Magnitude: ± 0.004 dB (rms) from 300KHz to 6 GHz Phase: ± 0.07 degrees from 300KHz to 6 GHz
11	Receiver compression at 9 GHz	+10 dBm, 0.10 dB compression
12	Immunity to interfering signals	+16 dBm (nominal)
13	Spectrum Analyzer	5 KHz to 4 GHz, resolution 1 Hz
14	Resolution Bandwidth	1 Hz to 5 MHz
15	Video Bandwidth	1 Hz to 5 MHz
16	Maximum Input Voltage	+27 dBm
17	Sweep Time	Zero Span : 1 μs to 1000 s
18	Accessories	Necessary cable and mechanical cal kit should be supplied along with instrument & CalReady should be inbuilt and Quick Cal optional.
19	Display	6.5" transfective color VGA LED-backlit
20	PC Connectivity	USB, LAN, remote control capability with iPhone & iPad Optional.
21	Warranty	Standard warranty – 3 Years. Manufacturer should have NABL Accredited Calibration Lab facility with more than 30 Parameter (as per NABL) in India.
22	Future Upgradable Features	The instrument should have following future upgradable features: <ul style="list-style-type: none"> ➤ Independent Source, ➤ Interference Analyzer ➤ Time Domain Option ➤ Mixed Mode S-Parameter Measurement ➤ Built – in Power Meter and USB Power Sensor Support ➤ Vector Voltmeter ➤ Real Time Spectrum Analyzer ➤ Pulse Measurement ➤ Built - in Variable DC Voltage ➤ Built – GPS

Annexure: B

EMI – EMC Lab	Qty 1
The EMI source module must include commonly found EMI sources such as: <ul style="list-style-type: none">➤ High speed digital pulses: 1 ns, 3 ns and 6 ns➤ 10 MHz sine wave oscillator➤ 50 MHz Square wave oscillator➤ DC brushed motor circuits	
The electromagnetic coupling module must include at least the following types of transmission lines for EMI measurements: <ul style="list-style-type: none">➤ Single microstrip➤ Couple microstrip with 0.56mm edge-to-edge spacing and coupled length of 100mm➤ Couple microstrip with 1.2 mm edge-to-edge spacing and coupled length of 100mm➤ Couple microstrip with 0.56mm edge-to-edge spacing and coupled length of 50mm➤ Coaxial line for transfer impedance measurement➤ Single co-planar line➤ Coupled co-planar line with coupled length of 100mm	
The kit must also come with a Near-field probe for H-fields measurements, and other accessories required to perform the lab experiments (such as terminators, attenuators, cables, etc.)	
The training kit shall be certified with CE certification	
The training kit should have lab exercises, reference materials related to theories and concepts of EMI and EMC must be provided in editable format for ease of customization and presentation. It shall cover a typical one full semester of undergraduate teaching with the following topics: <ul style="list-style-type: none">➤ Introduction to EMI/EMC➤ Basic Theories➤ EMC Control and Design➤ PCB Layout Design Issues➤ Filters, Cables, and Connectors➤ Isolators, Transient, and Surge Protection, Shielding, Grounding and Bonding➤ EMC Measurement Review➤ EMI/EMC Troubleshooting Techniques and Methodologies, System Integrity	



Electromagnetic Theory Lab Qty 1	
➤	Microwave source output power: ± 1 dBm
➤	Microwave source output frequency: 2400 – 2600 MHz
➤	Microwave source output frequency Accuracy: ± 2
➤	Input Voltage: 5 V
➤	Input Current: 30mA
➤	EMC: IEC61326-1:2005 / EN61326-1:2006, CISPR11:2003/EN55011:2007, Group 1, Class A
➤	Warranty: 3 – year
➤	Accessories:
➤	Microwave oscillator module, RF Coaxial Cable, N(m) – SMA Adaptor, N(f) – SMA Adaptor, Male – male SMA Adaptor, 50 Ohm coaxial termination, USB Cable, Power Adaptor

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: _____

To: _____

Sl. No.	Description of goods (with full Specifications)	Qty.	Unit	Quoted Unit rate in Rs. (Including Ex Factory price, excise duty, packing and forwarding, transportation, insurance, other local costs incidental to delivery and warranty/ guaranty commitments)	Total Price (A)	Sales tax and other taxes payable	
						In %	In figures (B)
Total Cost							

Gross Total Cost (A+B): Rs. _____

We agree to supply the above goods in accordance with the technical specifications for a total contract price of Rs. _____ (Amount in figures) (Rupees _____ amount in words) within the period specified in the Invitation for Quotations.

We confirm that the normal commercial warranty/ guarantee of _____ months shall apply to the offered items and we also confirm to agree with terms and conditions as mentioned in the Invitation Letter.

We hereby certify that we have taken steps to ensure that no person acting for us or on our behalf will engage in bribery.

Signature of Supplier

Name: _____

Address: _____

Contact No: _____

