

INVITATION FOR QUOTATION

TEQIP-II/2014/NITECR/Shopping/61

26-Nov-2014

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 I,

Sr. No	Brief Description	Quantity	Delivery Period(In days)	Place of Delivery	Installation Requirement (if any)
1	Vector Network Analyzer	1	60	Electronics and Telecommunication Department, NIT Raipur	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 II** 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.

6.3 The Tenderer / Bidder need to submit the following certificates along with the quotation to

- * Confirm their eligibility:

- * Proof of establishment of Firms/shop/business/manufacturing unit etc. and Dealership certificate from the principals etc.

- * A valid Sales Tax/Commercial Tax/Service Tax certificate should be enclosed

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 **12** months from the date of successful acceptance of items.
11. You are requested to provide your offer latest by **15:00** hours on **18-Dec-2014** .
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,
National Institute of Technology (Formerly Engineering College, Raipur) Raipur – 492 010
(Chhattishgarh)
17. We look forward to receiving your quotation and thank you for your interest in this project.

REGISTRAR
NIT RAIPUR

Annexure I

Sr. No	Item Name	Specifications
1	Vector Network Analyzer	Vector Network Analyzer Manual Calibration Kit and all necessary cables/adapters must be supplied for antenna (with SMA female type connector) and filter measurement.

- Final price must be included with all essential cables and adopters.
- Must be future upgradable to spectrum analyzer, cable and antenna tester.

Parameters	Tender Specifications
Frequency Range	30 KHz – 18 GHz
No. of Ports	2
RF Output and input Port ConnectorImpedance	50 Ω
Directivity upto 18 GHz	≥ 32 dB
Source Match upto 18 GHz	≥ 30 dB
Load Match upto 18 GHz	≥ 27 dB
Reflection Tracking upto 18 GHz	± 0.1 dB
Transmission Tracking upto 18 GHz	± 0.5 dB
Dynamic Range	100 dB to 9 GHz, 90 dB to 18 GHz
Battery operating time	3.5 hours typical
Return loss	Display range: -1000 to 1000 dB

			with Resolution: 0.01 dB
		VSWR	Display range: 1.01 to 1000 with Resolution: 0.01
		External storage	Should support SD/SDHC memory cards and USB 2.0 memory devices
		Operating Temperature	-10 °C to +55 °C
		Power supply	External DC input: 15 to 19 VDC
		Power Consumption	14 W or minimum
		Max. Test Port Output Power	+1 dBm at 3 GHz -2 dBm at 6 GHz -6 dBm at 18 GHz
		Min. Test Port Output Power	-45 dBm nominal
		Power Step Size	Power should be settable in 1 dB steps across power range
		Immunity to interfering signals	+16dBm (nominal)
		VNA Measurements	full 2 port S-parameter measurement (S11, S21, S22, S12)
		Display formats	Log magnitude, linear magnitude, VSWR, phase, Smith chart, polar, group delay, unwrapped phase, real impedance, imaginary impedance or additional.
		Temperature Stability	± 0.08 dB/°C nominal at 18 GHz
		Compression (0.1 dB)	+10 dBm at 18 GHz

		Warranty	3 years
		2. Radiation Pattern measurement Setup • Radiation Pattern measurement Setup compatible with above 18 GHz vector network Analyzer consist of Transmitter Module, Receiver Module and Radiation pattern plotting software. • All necessary adopters and cables must be supplied to measure the antenna characteristics with the help of above VNA. Examples: RF coaxial cables, SMA (m) to SMA (m) and SMA (f) to SMA (m) etc. • All necessary lab manuals must be included. a) Transmitter Module: Frequency: upto 18 GHz, compatible with VNA Output impedance: 50 Ω b) Receiver Module: Frequency: upto 18 GHz, compatible with VNA Output impedance: 50 Ω c) Two quantities of Ultra-wideband horn antenna which can to be used as a transmitter. d) Radiation Pattern plotting Software: A. PC based controlled rotator [0 to 359 degrees] B. Variable step size [1 to 30 degrees/step] C. Compatible with Windows XP, 7 and 8. <u>Special Note: Vendors must provide all the above specifications in detail. Anything not provided will lead to technically disqualification.</u>	

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: _____