

Supply & Installation of DSP Laboratory Equipment

NIT SIKKIM

Tender No.:

Tender date: 4.08.2014

Pre bid meeting and Demo of Equipment: 12.08.2014

Last Date of submission: 25.08.2014

National Institute of Technology Sikkim Ravangla Campus, Barfung Block,
South Sikkim 737139

National Institute of Technology (NIT) Sikkim, Ravangla, South Sikkim invites tender for supply, installation and commissioning, testing and demonstration of communication laboratory equipments, as per the items and specifications given in the Schedule attached to the Tender form annexed hereto. All offers should be made in English and should be written in both figures and words. Tender forms can be downloaded from the website (www.nitsikkim.ac.in) of the Institute.

The bidders are requested to read the tender document carefully and ensure compliance with all specifications/instructions herein. Noncompliance with specifications/ instructions in this document may disqualify the bidders from the tender process.

The Institute reserves the right to accept or reject any quotations or to select the item (in single or multiple units) or to reject the bidding process or any quotation wholly or partly without assigning any reason.

Incomplete tenders, amendments and additions to tender after opening or late tenders are liable to be ignored and rejected.

Terms and conditions:

1. The technical and financial bids should be quoted separately and put in different sealed envelopes marked “**Technical bid**” and “**Financial bid**” as applicable and are to be put in separate envelopes, which should also be sealed. The EMD of Rs. Fifty Thousand (Rs. 50000/-) should be enclosed in the technical bid in the form of A/C payee DD in favor of “**Director, NIT Sikkim**”.

2. The financial bid should include the cost of main equipment/item and its accessories. If there is any separate cost for installation etc. that should be quoted separately. The quotations shall be submitted in a sealed envelope duly marked “Quotation against Tender No.: NIT(3)Electronics Purchase/LabEg-2/FIDA/2013-2014, dated 24.07.2014 due on 25.08.2014 on the corner of the envelope.

3. The printed literature and catalogue/brochure giving full technical details should be included with the technical bid to verify the specifications quoted in the tender. The bidders should submit copies of suitable documents in support of their reputation, credentials and past

performance. The rates should be quoted in figures (typed or printed) and cutting should be avoided. The final amount should be in figures as well as in words. If there are overwriting, they should be duly initialed, failing which the bids are liable to be rejected. No alternate price will be entertained in the quotation.

The technical and financial bids should be addressed to

Officer on Special Duty,
National Institute of Technology Sikkim
Ravangla Campus, Barfung Block,
South Sikkim 737139.
Email: osd@nitsikkim.ac.in

4. All tender documents should have to be sent through courier, speed post or registered post only or may be dropped in the tender box at NIT Sikkim. All tender documents received after this specified date and time should not be considered.
5. Quotation received after the closing date/time will not be considered.
6. While sending rates, the firm shall give an undertaking to the effect that “*the terms/conditions mentioned in the inquiry letter/Tender Notice against which the rates are being given are acceptable to the firm.*” In case the firms do not give this undertaking, their rates will not be considered.
7. If a supplier/firm is original equipment manufacturer (OEM)/authorized dealer/sole distributor of any item, the certificate to this effect must be attached.
8. The quantity shown against the item is tentative and may vary as per dynamic requirement of the Institute.
9. In the event of any dispute or difference(s) between the vendee Institute (NIT Sikkim) and the vendor(s) arising out of non-supply of material or supplies not found according to specifications or any other cause whatsoever relating to the supply or purchase order before or after the supply has been executed, shall be referred to “The Director, NIT Sikkim”, Sikkim who may decide the matter himself.
10. All tenders in which any of the prescribed conditions is not fulfilled or any condition is put forth by the tendered shall be summarily rejected.
11. If the successful bidder fails to supply the kits/Product within stipulated time, then the EMD may be forfeited.
12. Successful bidder shall have to deposit PBG of 10% after the P.O. is endorsed to the suppliers.

The Technical bid will be opened on 25.08.2014. The bidders or their authorized representative may also be present during the opening of the Technical Bid, if they desire so, at their own expenses.

Price bids of only those bidders will be opened whose technical bids are found suitable by the committee appointed for the purpose. Date and time of opening of price bids will be decided after the committee has evaluated technical bids. In exceptional situation, an authorized committee may negotiate price with the qualified bidder quoting the lowest price before awarding the contract.

Clarifications:

In case the bidder requires any clarification regarding the tender documents, they are requested to contact Mr. Hemant Kumar Kathania (e-mail: hemant.ece@nitsikkim.ac.in), Assistant Professor, NIT Sikkim on or before 25.08.2014.

Pre – Qualification Criteria:

- a. Bidders should be the manufacturer / authorized dealer. Letter of Authorization from original equipment manufacturer (OEM) on the same and specific to the tender should be enclosed.
- b. An undertaking from the OEM is required stating that they would facilitate the bidder on a regular basis with technology/product updates and extend support for the warranty as well. In case of proprietary items, suitable declaration documents from the manufacturer to be submitted.

Prices:

The Prices quoted should be inclusive of all taxes or duties, packing, forwarding, freight, insurance, delivery and commissioning etc. at destination site (NIT Sikkim, Ravangla, Sikkim). **Prices should be quoted separately inclusive and exclusive of Customs/Excise Duty.** The rates shall be firm and final. Nothing extra shall be paid on any account.

Validity:

The bid should be valid for acceptance for a period of 120 Days. The Bidders should be ready to extend the validity, if required.

Delivery:

The Equipment should be delivered and installed within the period as specified in the purchase order and be ready for use within 12 weeks of the issue of purchase order unless otherwise prescribed.

Liquidated Damage:

If the bidder fails to deliver and place any or all the Equipment or perform the service by the specified date, penalty at the rate of 1% per week of the total order value subject to the maximum of 10% of total order value will be deducted.

Warranty

Bidders must give the comprehensive onsite warranty as required from the date of successful installation of Equipment against any manufacturing defects and also give the warranty declaration that *“everything to be supplied by us hereunder shall be free from all defects and faults in material, workmanship and shall be of the highest quality and material of the type ordered, shall be in full conformity with the specification and shall be complete enough to carry out the experiments, as specified in the tender document.”* P.T.O

Any deviation in the material, and the specifications from the accepted terms may liable to be rejected and the bidders need to supply all the goods in the specified form to the satisfaction / specifications specified in the order / contract and demonstrate at the their own cost.

Detailed Technical specification

Sl No.	Quantity	ITEM: Digital Storage Oscilloscope (DSO) with probes and accessories
1.	08	Mention SPECIFICATIONS against these parameters (One may extend their specifications beyond these parameters)
		<p>Manufacturer (Make)</p> <p>Sample mode: Real time</p> <p>Bandwidth: 100MHz</p> <p>No. of channel: 2</p> <p>Sampling Rate: 1GS/s – 2 GS/s</p> <p>Time base range: 1nS/div - 50S/div.</p> <p>Vertical sensitivity 2mV – 10V/div</p> <p>Modes Main, Window, Zoom, Roll, X-Y.</p> <p>Trigger Modes Auto, Normal, Single, Pulse Width, Video</p> <p>Delay pre-trigger – 10 div., post trigger – 1000 div.</p> <p>Vertical Resolution 8 bit</p> <p>Math operation Add/Subtract/Multiply, Autoset, FFT, FFTrms, Zo</p> <p>datalogger facility.</p> <p>Automatic Measurement Multiple types</p> <p>Cursor Measurement ΔV, ΔT. $1/\Delta T$.</p> <p>Acquisition Modes Sample, Peak Detect, Average</p> <p>Memory (Record Length) 1M points per channel</p> <p>Peak Detect 10nS</p> <p>Communication Interface USB 2.0, optional LAN, Device.</p> <p>Mains input 100 – 240V AC, 50Hz</p> <p>Display 5.5 inch (minimum) LED/LCD/WVGA</p> <p>Operating System</p> <p>High Update rate</p> <p>Accessories and softwares</p> <p>Temperature variation: -10^0 to 50^0</p> <p>Warranty: at least 3 years</p>
Sl No.	Quantity	ITEM: Digital Storage Oscilloscope (DSO) with probes and accessories
2.	02	Mention SPECIFICATIONS against these parameters (One may extend their specifications beyond these parameters)
		<p>Manufacturer (Make)</p> <p>Sample mode: Real time</p> <p>Sample Rate: 2 GSa/S (Maximum)</p> <p>Number of channels: 2</p> <p>Input Coupling: DC, AC, GND</p> <p>Input Impedance: $1\text{ M}\Omega \pm 3\%$; $14\text{ pF} \pm 2\text{ pF}$</p> <p>Max input voltage: 400 V (peak), 300V (rms).</p> <p>Time base range: 1 ns/div to 100 s/div.</p> <p>Memory Length: 2M</p> <p>Waveform update rate: 50000 / second to 100000 / seconds</p> <p>Bandwidth: DC to 100 MHz</p> <p>Bandwidth Limit: 20 MHz</p> <p>Vertical Resolutions: 8 bits</p>

		<p>Vertical sensitivity: 1mV/div to 5V/div. Rise time: 3.5ns Trigger: Edge, Pulse Width, Pattern, Video Waveform math: +, -, ×, ÷, FFT, FFTrms, d/dt, ∫, √ Parameter measurement (auto): 20 to 35 parameters. I/O Connectivity: USB devices and host, Ethernet, GPIB Operating system Optional mixed signal / digital analyzer of 8/16 input channel Optional Built in wave form generator Display: 8 inch (minimum) Colour WVGA/LCD/LED Temperature variation: -100 to 500</p> <p style="text-align: center;">Warranty: at least 3 years</p>																																																										
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4	02	<p>Make</p> <p>Frequency - 0.1Hz to 10MHz</p> <p>Distortion - -55dBc (best)</p> <p>Amplitude - 1.1mV p-p to 10 volt p-p (into 50 ohm) 2mV p-p to 20V p-p in Open Circuit</p> <p>Duty Cycle control - 1% to 99% ≤100KHz & 20% to 80% ≤5MHz</p> <p>Simultaneous display of frequency amplitude & Offset.</p> <p>Wave Form - Sine, Square, Triangle, Ramp, Pulse, Noise, Arbitrary, TTL</p> <p>Arbitrary Function</p> <p>Sample Rate - 20MS/s</p> <p>Repetition Rate - 10MHz</p> <p>Waveform Length - 4K</p> <p>Amplitude resolution - 10 bit</p> <p>Power - 230V.AC, ±10%, 50Hz</p> <p>Accessories and software</p> <p>Warranty at least 3 years</p>
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