

# Supply & Installation of Surveying Lab Equipments

NIT SIKKIM

Tender No.: NITS/CE(1)/SURVEYING LAB INST./2014-15

Tender date: 15.10.2014

Last Date of submission: 10.11.2014

Date of Opening Technical Bid: 11.11.2014

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. **Bidders may quote for all or any of the items mentioned here.** 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](http://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 **for each item** and are to be put in separate envelopes, which should also be sealed. The below mentioned EMD should be enclosed in the technical bid in the form of A/C payee DD in favors of “**Director, NIT Sikkim**”.

Sl. No.	Item	Tender Notice No.	EMD
1	As per the attached list of survey instruments	NITS/CE(1)/SURVEYING LAB INST./2014-15	Rs. 121000

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.: NITS/CE(1)/SURVEYING LAB INST./2014-15, dated 15.10.2014 due on 10.11.2014 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](mailto: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.
13. The vendors should be **authorized dealer** for the concerned instruments.

The Technical bid will be opened on 11.11.2014. 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. Mohan S. C. (e-mail: [mohansc@nitsikkim.ac.in](mailto:mohansc@nitsikkim.ac.in), mob: +91-8001024453), Assistant Professor, NIT Sikkim..

**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 equipments should be delivered and installed within the period as specified in the purchase order.

**Liquidated Damage:**

If the bidder fails to deliver and place any or all the equipments 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.”*

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.

**Table: Detailed List of Survey Instruments and Technical Specifications**

<b>Item No</b>	<b>Surveying Instruments Needed</b>	<b>Quantity needed</b>
1	Measuring Surveyers chains 30 mtrs as per ISS	7
2	Arrows: Good quality, hardened and tempered steel wire 5mm diameter, 40 cm length as per ISS	35
3	PVC / Cloth fibre Measuring Tape – 30m	14
4	Ranging Rod: 2 mtrs steel rod 25mm diameter, alternative red and white painted	21
5	Ranging Rod 3 mtrs steel	14
6	Offset Rod – 2 mtr	7
7	Optical Square (Prism Square)	7
8	Ghat Tracer	2
9	Wooden Pegs	35
10	Plumb Bob (Brass)	14
11	Levelling Staff: Aluminum 5m, telescopic in canvas cover 5sec. least count 1mm, alternative black and white painted, every meter in red,	7
12	Wooden Mallet	7
13	Prismatic Magnetic Compass: 150 mm diameter (brass),30' least count, High accuracy, the graduations on the circle are engine divided for accuracy, well designed, portable, robust in construction and attractively finished with tripod stand.	7
14	Line Ranger	7
15	Clinometer compass	7
16	Plane Table: Superior Quality sets 750mm x 600mm x 22mm,complete with metallic disc of 160mm diameter at base and with highly polished wooden Stand fitted with brass screws and washers and conforming to BIS-1764:1961, Brass Sight Vane, Plumb Bob, spirit Level 150mm long, Trough compass, 280 mm long brass U-fork, Water proof canvas cover	8
17	Plumbing fork / U-fork	2
18	Survey Umbrella: with 2m diameter spread and alluminum pole with stand.	7
19	Graticule	2
20	Subtense bar as per specifications made by survey of india	2
21	Measuring scale (1m)	7
22	Surveyor's Compass	7
23	Simple Alidade	7
24	Telescopic Alidade	7
25	Cross staff: Oxidized brass cross staff with box and stand	7
26	15cm size spirit level	7
27	Dumpy level: Three foot screw, image erect, length-178mm, Aperature-38mm, Magnification-30X, object glass diameter-40mm, short focus-1.5m, stadia ratio 1:100, additive constant - 0, accuracy $\pm 2$ mm/Km, circle diameter -95mm, graduation - 10', plate level sensitivity -40'/2mm, with tripod stand and other accessories	2

28	<p><b>AUTOLEVEL:</b>  Magnification: 24x, Compensating range: +/-15'  Resolving power: 3.5", Objective aperture: 30 mm  Minimum Focus: 0.3 m, Magnetic Damping compensator  Accuracy (1 km double run): +/- 2mm, Circular vial sensitivity: 8'/2mm</p> <p><b>ESSENTIAL ACCESSORIES:</b>  Aluminium Telescopic Tripod – 1no.  5m Aluminium Telescopic Staff – 1no.  (Complete with all standard accessories)</p>	6
29	<p>GPS hand held with GIS software for adding maps and surveying facilities  Accuracy &lt; 2 meters  On screen mapping should be possible and screen should performs under different light conditions  With Barometric altimeter, Batteries: Duration 24 hr  Waterproof and durable. Dedicated GPS units should cope with rain.  Touch screen type, Included electronic compass  Should have external memory card facility  USB Interface</p>	1
30	IOP Level with Tripod complete with telescopic stand, box and accessories	2
31	<p>Standard Vernier Theodolite with erect image, optical plummet alongwith Aluminium stand and with the following specifications in wooden box:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Accuracy 20 seconds, length - 178mm, Effective Aperature - 38mm, Magnification 30X, Short focus - 1.5m, stadia ratio 1:100, addetive constant - 0, resolving power 4", circle diameter -113 mm, graduation - 10', vernier reading - 20", plate level sensitivity -45'/2mm, verticle circle level - 1'/2mm with tripod stand and other accessaries .</li> <li><input type="checkbox"/> Erect Image using prisms.</li> <li><input type="checkbox"/> Optical plummet system embeded in circle.</li> <li><input type="checkbox"/> Dark blue coated lenses.</li> <li><input type="checkbox"/> Steel axis with ball bearings.</li> <li><input type="checkbox"/> Circles made from pure silver.</li> <li><input type="checkbox"/> Carrying case.</li> </ul>	6
32	<p>Digital Planimeter (Roller type with computing function)  LCD with 8-digit figures, 10 symbols.  Symbol : Batt-E, SCALE, MEMO, HOLD, cm2, m2, km2, in2, ft2, acre.  Converting : Unit and scale value.  Measuring Rang : Maxium vertical width: 325 mm  Horizontal roller rotating length: 30 m.  Accuracy : Witin ± 0.2% (within ± 2/1000 pulses)  Power Supply : Built-in Storage Battery (rechargeable through AC adapter).  AC 100V, 120V, 220V and 240V, (using the supplied AC adapter)  (provided with auto power-off function)  Operating Duration : Approx. 30 hours of continuous operation.  Battery Charging : Approx. 15 hours.  MainUnit Weight : 750 g.  Accessories : Supplied AC adapter and plastic case.</p>	2

33	<p><b>ELECTRONIC THEODOLITE</b>  Angular Accuracy: 5", Least count: 1", Magnification: 30x  Objective aperture: 45mm, Minimum Focus: 1.35m  Image: Erect, Angle measuring mode: Absolute encoder  Tilt compensator: Yes, Compensating range: +/-3'  Display: Dual side, identical display with Alphanumeric keyboard,  Power supply: Battery: 4 x single three (AAA) type dry battery  Optical Plummet, Operating temperature: -20°C to +50°C  <b>ESSENTIAL ACCESSORIES:</b>  Aluminium Telescopic Tripod – 1no.  (Complete with all standard accessories)</p>	2
34	<p><b>Total Station : Windows based Long range Reflector less</b>  Magnification: 30X , Angular Accuracy: 5" (As per DIN 18723/ ISO 17123-3)  Least count: 1", minimum focusing distance: 1.5m  Operating system: Windows, Processor: 400MHz  Internal Memory: 64MB SD-RAM, 128MB Internal non volatile flash storage with provision for USB pendrive as extra memory device.  Display : Dual side identical 3.7 inch TFT with Electronic buuble.  Operating Temperature: -20°C to +50°C , Range with Single Prism: 7000m  Distance accuracy with Prism: +/- (2mm + 2ppm) X D  Distance accuracy without Prism: +/- (3mm + 2ppm) X D  Range without Prism : 550m, Dual Axis Compensator: +/- 3'  Temperature, Pressure sensor: In built, Laser plummet.  Data communication: RS-232, Mini USB  Card slots: SD MMC Card slot, CF Card slot.  Essential accessories:  Wooden Telescopic Tripod – 1 No.  Rechargeable Batteries –2 No.  Charger with adapter – 1 No.  Data transfer cable – 1 No.  Prisms With Holder And Target Plate – 1 No.  Reflector Poles Telescopic With Circular Bubble, Meter Graduation – 1 No.  USB Pendrive 4GB - 1 No.  (Complete with all standard accessories)</p>	1
35	<p><b>Windows based Total Station with all possible features</b>  Magnification: 30X , Angular Accuracy: 5"  Least count:1mm, USB type port for pendrive  Operating Temperature: -20°C to +50°C  Distance accuracy: +/- (2mm + 2ppm) X D  Temperature, Pressure sensor: In built, Laser plummet.  Essential accessories:  Wooden Telescopic Tripod – 1 No.  Rechargeable Batteries –2 No.  Charger with adapter – 1 No.  Data transfer cable – 1 No.  Prisms With Holder And Target Plate – 1 No.  Reflector Poles Telescopic With Circular Bubble, Meter Graduation – 1 No.  USB Pendrive 2GB - 1 No.  (Complete with all standard accessories)</p>	2