

# **NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM**

DEPARTMENT OF CHEMISTRY

Tender No.: 04 / NITS / Chemistry / Polarimeter / 2015 – 16

**Tender for Supply & Installation of Digital Polarimeter**

**At**

**Chemistry Department**

**NATIONAL INSTITUTE OF TECHNOLOGY SIKKIM**

**RAVANGLA CAMPUS**

**BARFUNG BLOCK, RAVANGLA**

**SOUTH SIKKIM – 737 139**

**Part A – Terms and Conditions**  
**Part B – Technical Specifications**

## **Important Dates:**

May 30, 2016 – Announcement of the Tender

July 11, 2016 – Last date for submission of Tenders

On or after July 12, 2016 – Tentative date for Opening of Technical Bids

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National Institute of Technology (NIT) Sikkim invites sealed Tender bids (in two bid system) for **Digital Polarimeter** for the Chemistry department. The bids should reach to the office of Faculty In-charge, Stores & Purchase Activities (FI-SPA), latest by 5:00 pm, July 11, 2016 Ravangla, Sikkim.

**Tender Documents** - Tender documents containing terms and conditions and technical specifications are available free of cost in the Office of the FISPA, NIT Sikkim, Ravangla, South Sikkim – 737 139, on all working days between 11.00 a.m. & 4.00 p.m. from May 30 to July 08, 2016. **OR** can also be **downloaded** from Tender section of [www.nitsikkim.ac.in](http://www.nitsikkim.ac.in).

**Addressing the Bids:** The tender bids duly complete in all respects, along with the necessary documents should be submitted to the above mentioned address, latest by 5:00 p.m. on July 11, 2016. The Technical Bids so received, shall be opened on or after July 12, 2016, after seeking approval from the competent authority of the NIT Sikkim. All the bidders may be notified about the exact date later.

***\*\*Please note that NIT Sikkim is located in a remote place in the north eastern state of Sikkim where private couriers do no operate and the speed posts also take at least 7 days to reach. So, all bidders are requested to send in their bids by Speed Post only and well in advance of last date or they can hand deliver it by their employees.***

***The Financial bids of only technically qualified bidders shall be opened on a later date.***

The date and time of opening the financial bids shall be announced after scrutinizing the Technical bids. Right to reject any or all tenders, without assigning any reason there of is reserved by the NIT Sikkim.

Sd/-

Faculty In-charge, Stores & Purchase Activities

NIT Sikkim, Ravangla,

South Sikkim 737139

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## Part A - Terms and Conditions

### Terms and Conditions of Supply:

1. Last date and time for submission of bids is on July 11, 2016 (Monday); 05:00 PM.
2. Suppliers shall submit the following documents along with their quotations.
  - (a) **Suppliers should be either manufacturer or authorized dealer of the said equipment and should submit the proof for the same.**
  - (b) **The names of the organizations and laboratories to which similar equipment have supplied. If possible, recommendation letters from such customers may be attached.**
  - (c) **In case of authorized dealers, bidder must furnish an authorization letter from the OEM.**
  - (f) **Technical compliance table** – The bidder shall furnish a Technical compliance table comparing the technical specifications given in Part - B.
  - (g) **EMD** should be @2% of the total cost of equipments in the form of **DD drawn in favour of “Director, NIT Sikkim” payable at SBI, Ravangla Branch (Code 07218)** and it should be contained in the technical bid. The bidders shall “self calculate the amount @2% including price for all items” and submit as EMD.
  - (h) The supplier should provide the Performance Guarantee @10% for the warranty period which may be in the form of Bank Guarantee / FD or deduction of amount of @10% from the payment which shall be kept for three (03) months beyond the warranty period.
  - (i) **Authorised Service Centre (Must)** - The OEM must have a technical service centre in India, preferably in Sikkim or West Bengal or its vicinity. The service centre must have competent engineers for providing services. The bidder must mention the address and contact person of this nearest service centre. Bids of bidders who does not have authorized service centre, shall be rejected.
3. The rates should be mentioned in the **Schedule** attached with the Tender Document. Each page of the tender shall be signed in full and stamped with the seal by the supplier. The supplier must clearly state in what capacity s/he is signing the tender.
4. The supplier shall submit the tender in two envelopes. The first envelope (marked “Technical Bid”) shall contain all the documents referred to in **Para two above** and sealed. The second envelope (marked “Commercial Bid”) shall contain the **Schedule**, in which the supplier shall register the rates of supply. The second envelope shall also, likewise, be sealed. Both the envelope then should be put together, and shall be sealed in an envelope, and shall prescribed time and date. The Technical Bid shall be opened first to ensure that supplier have submitted all the requisite documents. If the Technical Bids are not in order or are deficient in some respect, the commercial bids in respect of such tenders shall not be opened. The date and time of opening the financial bids shall be announced immediately after opening all the Technical bids.

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5. Supplier should read carefully all the instructions and terms and conditions, etc before registering rates in prescribed schedule of the tender. Taxes and duties etc., should be shown separately.

**6. Offer Period** - The offers made by the suppliers shall be open for acceptance within 120 days after the last Date of submission of tender.

### **7. Quoted Price:**

**The rates quoted should be inclusive of all the sundry Taxes and duties, Cess, Customs Duty, Entry Tax to Sikkim, Octroi etc. Price should be inclusive of all packing, forwarding, freight, insurance, clearing charges etc. The payment shall be made on the actual cost of on-site delivery, installation and commissioning of the equipment at the Ravangla Campus of NIT Sikkim. No other financial liability would be taken by NIT Sikkim**

(a) **F.O.R.** - The quoted price must be on F.O.R. basis at NIT Sikkim, Ravangla campus.

(b) **Currency** - The rate should preferably be **quoted in Indian rupees. If the material is imported, then the supplier should show the price in foreign currency as well as show the rate of that foreign currency at which the price has been calculated.** The prospective bidders may also quote price in foreign currency. In that case, the payment may be made through the “Letter of Credit (L/C)” instrument or advance payment, depending on the choice of the competent authority of NIT Sikkim. In case of L/C, the Bank Release Order shall only be issued on arrival of the instrument in Kolkata or Bagdogra airport.

(c) **Customs Duty** - **The bidders may please note that the NIT Sikkim has DSIR certificate and instrument can be imported with reduced customs duty.** But Custom Clearance against Custom exemption certificate & transportation should be done by supplier & Instrument and all accessories should be given F.O.R NIT Sikkim.

(d) **E-cess for Sikkim** - The charges to E-cess @1% of the cost of the equipment (exclusive of VAT / CST) to be paid to Sikkim Govt. / Road permit must be borne by the suppliers. This is the cost of special permit for nationally important educational institution like NIT Sikkim. **The bidder must add this 1% in the price bid. The NIT Sikkim will help in arranging waybill against invoice, but the e-cess amount and related expenses will be deducted.**

(e) **Warranty for 03 years** – The price shall include **“comprehensive onsite service warranty for 03 years”** (including service maintenance charges and replacement of parts). In case the OEM gives warranty of parts for less than three years, the bidders shall explicitly mention the warranty period and terms & conditions of the OEM. But the **bidder must provide onsite maintenance service for three (03) years from date of installation.** The bidder may take into calculation the charges for warranty services.

(f) **Price of Computer, Printer, UPS:** The quoted price shall include the prices of computer, printer, UPS. However, ***it is desirable that the prices of these items are shown separately in Indian Rupees (INR)*** and also the taxes (like VAT) component applicable on them. Separate E-cess / Waybill shall be arranged for these indigenous items.

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**8. Opening of bids:** The Technical Documents shall be opened by the Faculty In-charge, Stores & Purchase Activities (FISPA) in the presence of Faculty members, Department of Chemistry at the office of FISPA, NIT Sikkim, Ravangla Campus, South Sikkim 737 139. The bidders or their authorized representatives shall be allowed to be present at the time of opening of the tenders. *Financial bids of only qualified bidders shall be opened later in second phase.* The date and time of opening the financial bids shall be announced after opening all the Technical bids.

**09. Delivery & Installation** - The delivery, installation & operational training of the instruments / equipment should be completed within **60 days** from placing of the order, in case of the **imported equipment**, and within **30 days** if the instrument / equipment are **made in India**. No extension shall be granted to the contractors / suppliers for the period of delivery, under any circumstances. **No separate payment will be made for such services.**

**10. Liquidated damage charge** - **If the bidder fails to deliver any or all the equipments or perform the service by the specified dates, penalty @1% per week of the total order value will be imposed as liquidated damage charge.**

11. If the supplier fails to deliver the article as per the delivery schedule, the NIT Sikkim shall be free to procure the balance / undelivered supply, at the risk and cost of the supplier, from other such suppliers

12. The goods, articles, materials supplied by the supplier shall be accepted after inspection by an officer authorized by the competent authority. **No articles / materials which do not conform to the specifications laid down in the terms and conditions or damaged in transit shall be accepted.**

13. The bills of the suppliers shall be paid by the NIT Sikkim after all the materials / articles / equipments have been received, inspected and installation & commissioning as above.

14. The supplier must give comprehensive on-site warranty as required from the date of successful installation & commissioning of the equipment against any manufacturing defects. Any deviation in the material, and specifications from the accepted terms & conditions, may be liable to be rejected and the supplier needs to supply all the goods in the specified form to the satisfaction / specifications as in the purchase order and re-commission & re-install at the cost of the supplier.

**15. Warranty** - **The warranty period for the instrument is expected to be for THREE (03) YEARS from the successful installation & commissioning of the equipment at Ravangla Campus, NIT Sikkim. The bidder shall explicitly clarify the period and terms & conditions of the warranty of parts and services. The bidder must provide onsite comprehensive maintenance service for three (03) years from date of installation. In each quarter of each year of the three year warranty period the supplier must arrange for the visit by the Technical experts from the manufacturer / authorized service centre for the regular maintenance of the equipment. The warranty should include all the maintenance charges during the warranty period.**

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**16. Performance bank guarantee (PBG):** the vendor has to submit an unconditional irrevocable bank guarantee for an amount equivalent to 10% of basic value of the instrument (including all peripherals) with validity of one (01) year, within 15 days of installation, else equivalent amount of money shall be deducted from payment and held for the said one year.

**17. The basic operator training should be provided by the competent Engineer during the time of installation. The payment shall be released only after successful installation.**

18. Charges for AMC after three year of warranty for next every year (minimum 4 visits per year) should be clearly mentioned separately as optional item. A list of all the necessary accessories required to make the unit functional should be provided. Names and phone numbers of the persons responsible for Sales and Service for this territory should be mentioned.

**19. Printed catalogues & specification sheet along with tender Compliance Statement must be enclosed with the Offer.**

20. Notwithstanding the above, the Institute reserves the right to accept or reject any particular or all bids and to cancel the whole bidding process rejecting all bids, without assigning any reason, at any time prior to the award of contract. The bidder whose bid is accepted will be notified of the award of contract by the Institute prior to expiration of the quotation validity period. The terms of the accepted offer shall incorporate in the purchase order.

21. The bid document must be signed and sealed and enclosed with the bid as a token of acceptance of all terms and conditions in the bid document by the bidder.

22. All the terms and conditions of GFR 2005 (*including amendments made thereafter*) of the Government of India will be applicable.

23. If any dispute arises the matter shall be limited to the courts of Sikkim state only.

24. Queries / Clarifications – Normally interim queries are not entertained. However for specific clarifications (specially on technical specifications) prospective bidders can contact Dr. Taraknath Kundu, Assistant Professor, Department of Chemistry, NIT Sikkim (through email: [kundu.nit.sikkim@gmail.com](mailto:kundu.nit.sikkim@gmail.com)). However, such queries shall be made up to at least three days before opening of bids and not later than that.

**25. The bids should be addressed to “Faculty In-charge, Stores & Purchase Activities, National Institute of Technology Sikkim, Ravangla Campus, Barfung Block, South Sikkim 737 139”. On the Tender envelop should clearly mention the Tender No.: “Tender No.: 04 / NITS / Chemistry / Polarimeter / 2015 – 16”. Any tender received after July 11, 2016 will not be considered. Bids should be sent through India Post’s “Speed Post” only. Bids can also be personally dropped in the Tender Box at the Administrative Office of NIT Sikkim at Ravangla, South Sikkim – 737 139.**

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## Part B – Specifications for Automatic Digital Polarimeter

The required Automatic Digital Polarimeter will be used mainly to study absorbance of Organic compounds, biomolecules. The suppliers should supply all the requisite accessories, **softwares**, computer, printer and UPS. These things shall be considered as part of the package and no separate payment shall be made.

*The instrument must be from internationally reputed manufacturer having supplied the same instrument to various National institutes in India. The said OEM must have authorized service centre in Eastern India, preferably in the vicinity of Sikkim.*

*The price of the instrument shall include 1 – 5 below:*

### 1. Instrument Specification:

**Two Light sources:** Sodium Lamp (589 nm) and high intensity Hg- lamp (variable wavelength) – both required

**Optical wavelength(s):** 589 nm Na and variable Hg- Lamp (633 nm / 578 nm / 546 nm / 436 nm / 405 nm / 365 nm / 334 nm / 313 nm / 302 nm / 296 nm / 280 nm / 254 nm).

**Detector:** Must be Photomultiplier tube (PMT)

**Modulator:** Faraday cell

**Measuring range:** plus or minus 90 Deg.

**Resolution:** 0.001 Deg.

**Repeatability:** 0.002 Deg.

**Response speed:** Approx.  $\pm 6^\circ$  / sec.

**Accuracy:** 0.01- 0.002°

**Sample chamber:** should accept sample tubes up to 200mm

#### Accessories:

(a) V Shape Cell Holder

(b) **Cells:** (i) cylindrical quartz cell 2.5mm ID x 1000mm; (ii) cylindrical quartz cell 10mm ID x 100mm; (iii) cylindrical quartz cell 20mm ID x 100mm and (iv) 50mm ID x 100mm path length each one number.

(c) **Peltier thermostatted cell holder**

**Temperature range:** 0-40° C (accuracy +/- 0.1 Deg C).

**Readout modes:** Optical rotation, optical specific rotation, concentration sugar scale (Z), optical purity.

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**Display:** on screen LCD / LED (touchscreen) and / or on personal computer via USB ports (if operating on PC, PC requirement should be mentioned)

**Calibration:** Using Standards or In-built

**Software:** suitable software should be provided

**Aperture:** should be variable for low concentration measurements (must have 1.8, 3 and 8 mm diameters)

**Power requirement:** AC 220 V  $\pm$  10%; 50 HZ  $\pm$ 5%

**Future upgradation:** (i) The polarimeter should be up gradable on the field for other wavelength filters with appropriate light source; (ii) The instrument should have facility to upgrade with different accuracy like HPLC cell flow for future applications; (iii) facility to attaché Peltier.

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**2. Software specifications for Instruments:** (i) The software must be user-friendly; (ii) The software must be "all-in-one" software for data measurement, manipulation and evaluation; (iii) The software must come with a quantification tool; (iv) The software must include an automatic instrument test (OQ/PQ); (v) The software must allow multilevel user management; (vi) The software must be Microsoft Windows based; (vi) The software must be GMP / GLP conform.

### 3. Desktop Computer Specifications:

Intel® Core™ i5-6400T with Intel® HD Graphics 530 (3<sup>rd</sup> or 4<sup>th</sup> generation) / 4 GB (or better 8 GB) PC3-12800 DDR3L-1600 (12800 MB/s) / 1 TB 7200 RPM ATA / 19.45" (49.40 cm) Anti-Glare Widescreen LED Display / Connectivity - 802.11b/g/n; Bluetooth 4.0 / Integrated 10/100/1000 GbE LAN / Windows 10 / Free 3 years Onsite Warranty / (For example, HP Model NO.: HP All-in-One 20-r202in / Part code: **HP Part Code: T0Q88AA**)

### 4. Printer-cum-scanner Specifications: HP LaserJet Pro MFP M226dw

**5. UPS Specification:** (i) APC 2 KVA Online UPS with at least 15 minutes back up (Model No.: APC SU2200UXINET) with external batteries from the OEM of reputed brands like Amaron / Exide, etc. (ii) An iron rack (preferably with wheels for movement) shall be given to keep the batteries.



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## Part C – Declarations, Documents to be submitted

### Declaration Form – I

#### Manufacturers Authorization Letter Format

The Director

National Institute of Technology Sikkim

Ravangla, South Sikkim

PIN 737 139, INDIA

I / We who are established and reputable manufacturers of \_\_\_\_\_ having \_\_\_\_\_ factories at \_\_\_\_\_ (address of factory)

do hereby authorize M/s. \_\_\_\_\_ (Name and address of authorised vendor in India) to submit a bid, negotiate and receive the order from you against your tender enquiry no. 04 / NITS / Chemistry / Polarimeter / 2015 - 16.

No company or firm or individual other than M/s. \_\_\_\_\_ is authorized to bid, and conclude the contract in regard to this business.

I / We hereby extend our full guarantee and warranty for the goods and services offered by the above firm. I / We hereby declare that we have authorised service centre in India at \_\_\_\_\_ (Name and address of the authorised service centre) and we will extend full maintenance services through them during warranty period and beyond.

Yours faithfully,

(Name)

(Name of manufacturers)

**Note:** This letter of authority should be on the **letterhead of the manufacturer** and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the Bidder in its techno-commercial unpriced bid. ***In case of foreign manufacturers, a scanned copy of the letter shall be acceptable.***

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## Declaration Form – II

### Contact Details of Purchasers of the Same Instrument Model

The Director

National Institute of Technology Sikkim

Ravangla, South Sikkim

PIN 737 139, INDIA

This is to inform you that we have sold the Automatic Digital Polarimeter Model No.: \_\_\_\_\_ (same as we have bid against your Tender enquiry) manufactured by M/s \_\_\_\_\_ of \_\_\_\_\_ (*place and country of manufacturer*) to the following purchasers in India. You are free to contact them for taking feedback on the performance of the instrument.

Sl No.	Manufacturer	Model No.	Name of the Purchasing Organisation	Contact Person of the Purchaser (Name, official address, email id, phone no.)
01.				
02.				
03.				
04.				
05.				

*\*May please add more rows.*

*#Please give more emphasis on models sold to academic institutions in Eastern India.*

(Sign. & Seal of the bidder)

#### Notes:

1. Only furnish details of purchases made by reputed Nationally known institutions and industry.
2. Only show purchase made during last 03 years.
3. Only show the purchase of the same model quoted for NIT Sikkim. In case, the model is recently launched, you may show purchases of its immediate predecessor model.
4. This declaration shall be furnished by authorized person on the letter head of the bidder.

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## Declaration Form – III

### ON-SITE MAINTENANCE SERVICE FOR THREE YEARS

The Director

National Institute of Technology Sikkim

Ravangla, South Sikkim

PIN 737 139, INDIA

I / We declare that we will provide on-site full maintenance services for three years from the date of delivery of the Automatic Digital Polarimeter Model No.: \_\_\_\_\_ manufactured by M/s \_\_\_\_\_ of \_\_\_\_\_ (*place and country of manufacturer*) quoted against your tender no. 04 / NITS / Chemistry / Polarimeter / 2015 – 16.

During these three years we will not charge for maintenance services.

We will charge / not charge (*please choose appropriate one*) for replacement or repair of spare parts.

The warranty period for hardware parts of the instrument is for \_\_\_\_\_ (*please specify years & months from the date of installation*) through authorized service engineers.

We have enclosed herewith the explicit terms and conditions of the original equipment manufacturer for your perusal.

(Sign. & Seal of the bidder)

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## Check List

### **To be put inside Envelop A – Technical Bid**

1. EMD @2% of the entire price – in the form of DD in favour of the “Director, NIT Sikkim”. Please write the name of the bidder on the reverse side of the DD.
2. Declaration forms I to III
3. Technical documents / specifications / brochures on the instrument (hardware and software included)
4. Technical specifications / brochures on optional attachments / items
5. Technical specifications of attached computer, printer & UPS
6. Technical compliance table
7. Warranty terms and conditions

### **To be put inside Envelop B – Price Bid**

8. Price of the instrument in INR or foreign currency for instrument (software included)
9. Price of computer, printer & UPS in INR (also show VAT amount)

**Please write Tender No. on both sealed envelopes A & B and then put this in a bigger envelop and also write Tender No. on that and post it.**