INVITATION LETTER

Package Code: TEQIP-III/2019/ntst/109 **Current Date: 20-June-2019**

Package Name: NITS/TEQIP-III/CE/05 **Method: Shopping Goods**

Sub: INVITATION LETTER FOR NITS/TEQIP-III/CE/05

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:

S.No.	Item Name	Quantity	Place of Delivery	Installation Requirement (if any)
1	Instruments for Environmental Engineering Laboratory	As per Annexure -I	NIT Sikkim	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. **Qualification Criteria**:

   The bidder/supplier should have:

   3.1. The bid should be accompanied with an EMD (Earnest Money Deposit) of Rs. 1,50,000/- (Rupees One Lakh Fifty Thousand only) in favour of The Director NIT Sikkim in the form of Demand Draft (DD) drawn on any commercial bank payable at Ravangla/Gangtok.

   3.2. A minimum of 3 years experience of supplying similar items, substantiated by relevant documents.

   3.3. A turnover of Rs.50 Lakh in last three years.

   3.4. Not been blacklisted by any Govt. Institution/Organization.

4. **Quotation:**

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

   4.2. The vendors are requested to quote lowest rate for the supply of all the items in the prescribed **Format for Quotation Submission.**

   4.3. Corrections, if any, shall be made by crossing out, initialling, dating and re writing.

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

4.5. Applicable taxes shall be quoted separately for all items. The Institute has DSIR certificate (applicable GST would be 5%).

4.6. 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.

4.7. The Prices should be quoted in Indian Rupees only.

4.8. The vendor should submit trade licence/certificate of Registration (as applicable) in the required business/field, GST registration number and photocopy of the GST registration certificate, the PAN of proprietor/firm/company with photocopy of the PAN card. Please attach a certificate that the quoted price is not more than that of any govt. organization/Intuition in India. This has to be mention in the offer letter clearly.

5. Each bidder shall submit only one quotation.

6. Quotation shall remain valid for a period not less than **45** days after the last date of quotation submission.

7. The quotation should include the following information:

7.1. Authorization certificate from the OEM/Principal assuring full guarantee and warrantee obligations during the liability period, for the goods offered.

7.2. The list of clients (IITs, NITs/Central Universities and other reputed Institution) duly supported by copies of purchase order.

7.3. Details of service/supports centres located in India.

8. **Evaluation of Quotations**: The Purchaser will evaluate and compare the quotations determined to be Substantially responsive i.e. which:

8.1. are properly signed; and

8.2. Confirm to the terms and conditions, and specifications.

8.3. The vendor should provide complete technical details (printed literature of the manufacturer along with model/make) and the same should be verifiable from the website of the vendor/OEM. Mere copying the technical specification provided in the Annexure-I may lead to cancellation of the bid.

8.4. The Institute reserves the right for pre-inspection of the goods/equipment quoted by the vendor.

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

10. **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.

10.1. 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.

10.2. 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.

11. Performance Bank Guarantee: Performance Security has to be submitted by the successful bidder. A Bank guarantee issued by a Nationalized Bank in India towards PBG for an amount equal to 5% of total order value of purchase order and valid till the period of beyond the 2 months of completion of warrantee period should be submitted in favour of **Director NIT Sikkim**. In case, the vendor fails to provide satisfactory service, the PBG is liable to be forfeited.

12. Payment shall be made in Indian Rupees as follows:

    Satisfactory Delivery & Installation - 70% of total cost
    Satisfactory Acceptance - 30% of total cost

13. Liquidated Damages will be applied as per the below:

    Liquidated Damages per Day Min %: 0
    Liquidated Damages Max %: 10

14. **All supplied items are under onsite warranty of 5 years from the date of successful acceptance of items and AMC/Others is NA.**

15. You are requested to provide your offer latest by **17:30** hours on **15-July-2019.**

16. Detailed specifications of the items are at **Annexure-I**.

17. Training Clause (if any) **YES**

18. Testing/Installation Clause (if any) **YES**

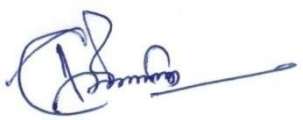
19. Performance Security shall be applicable**: 5%**

20. Information brochures/ Product catalogue must be accompanied with the quotation clearly indicating the model quoted for.

21. **The vendors should submit the technical and financial bids in two separate sealed envelopes. Financial bids of only the technically responsive bidders will be evaluated.** Sealed quotation to be submitted/ delivered at the address mentioned below:

    The Nodal Office (Procurement),
    TEQIP-III,
    National Institute of Technology Sikkim,
    Barfung Block, Ravangla, South Sikkim
    Pin Code-737139.

22. We look forward to receiving your quotation and thank you for your interest in this project.



Dr. Achintesh N. Biswas
Nodal Officer (Procurement)

Annexure-I

A. Diode-Array UV-vis Spectrophotometer (Quantity:01)		
S. No	**Components**	**Specification**
	Single-beam spectrophotometer with high resolution display for operation on 220V/50 Hz. Complete control through PC with PC software.	
1	Wavelength Range	190–1100nm or better
2	Slid width	1 nm or better
3	Detector	**Photodiode array detector capable of acquiring a complete spectrum in less than 1 second**
4	Spectral Bandwidth/ Band pass(nm)	0.01 to 5.00nm with 0.01nm step or better
5	Photometric Range	Absorbance: -4 to +4.0 Abs
6	Transmittance	0.0 to 400%
7	Photometric accuracy	< ± 0.005 A or better
8	Photometric Noise	<0.00005A or better
9	Wavelength Accuracy	± 0.2 nm or better
10	Wavelength Selection	Method-dependent, freely selectable
11	Wavelength reproducibility (nm); Standard deviation of10 measurements	<0.02 nm or better
12	Stray Light	≤ 0.03% or better (at 220 and 370nm)
13	Source	Deuterium and Tungsten or a deuterium discharge lamp for the full UV and visible range
14	Typical scan time	Less than 2 s for the entire range
15	Shortest time scan	0.1 s for the entire range or better
16	Quartz Cuvettes	a) A pair of Quartz Cells of 3mL capacity and 10mm pathlength b) A pair of Quartz Cells of 1mL capacity and 10mm pathlength
17	Software	Data Acquisition Modes: All operational modes as standard – Photometric; Spectrum;Quantization; Kinetics, Time Scan, DNA and Protein Quantification instand-alone and PC mode. Additionally, Multi-Component measurementshould be available in stand-alone mode. It should have theordinates: Abs, %T, %R,Absolute %R,Log Abs,Absorptivity etc. It shouldhave the Abscissa:Continuous, stepped &multi-point modes: nm, cm^{-1},Å, min/sec, mm, angle etc.Itshould have BaselineCorrection (unlimitedbaseline scans can be stored). Modes include: Multicell,Multiangle, 0% and 100% Corrections and Standardreference correction. Data Collection Modes:Continuousscanning. Stepped Scanning, Signal to noisemode scanning etc. Software up gradation andbackup should be covered. Operating System: Suitablefor windows 10 onwards. Inbuilt software tocontrol/regulate thetemperature of samples forkinetic studies.
18	**Accessories**	Thermoelectrically Temperature- Controlled Cell Holder including magnetic stirring. Uses Peltier effect for controlling the temperatures of the sample and reference sample. • Temperature control range: 10°C to 70°C or better • Temperature display accuracy: ± 0.5°C or better • Temperature control precision: ± 0.1°C or better

B. Microprocessor Dissolved Oxygen Meter (Qty:02)

Microprocessor with functions automatically controlled

- Modes: mg/l or %
- Display: Digital, unit mg/l or %
- Measuring range: 0 to 20 mg/l or better
- Accuracy: ± 1.5% of Full Scale
- Temp. Compensation: 1 to 50° C or better
- Temperature measurement range: 1 to 50° C or better
- Accuracy: ± 1° C or better
- Calibration: Should be automatic and precise in water vapour saturated air
- Oxygen Electrode: Should be a membrane covered amperometric oxygen electrode, suitable for the measurement of DO up to 5 m depths, should be zero current free and pressure resistant. Should be provided with calibration and maintenance kit and storage holder.

System should be complete in all respects for D.O. measurements, and should be provided with Funnel set, stirring accessory. Fixing ring, operational manual, dust cover. Power cable, 5 meter electrode cord, charger for Battery (230 ± 10) V 50 Hz and plug, and spares for 5 years of continuous operation.

C. Vertical Autoclave (Qty:01)

- Inner & Outer chamber, Basket, Lid made of Stainless Steel and tightened by radial Locking Provided with Pressure gauge (02.1 kgf/cm^2)
- Autoclave should have safety device, water level indicator and neoprene/silicon gasket.
- Steam, Vacuum Release and Water Draining By Valve
- Operating Pressure should be 5 to 20 (psi adjustable)
- Sterilizing pressure should be 1.2kgf / cm (15psi) at 121°C.
- Sterilization temperature should goup to 134 degree °C.
- Floor standing vertical type top loading
- Instrument should have LED display for time and temperature.
- Volumetric Capacity should be 90 to100 liters.
- Power requirements–220 V, 50 HZ

D. BOD Incubator (Qty: 01)

BOD Incubator

MICROPROCESSOR CONTROLLED COOLING INCUBATOR TEMP. RANGE 5 TO 60 ˚C ± 0.5 ˚C

- Double walled inside Stainless Steel/ outside made of mild steel duly painted with white enamel paint with Insulation of 75 mm.
- Chamber with shelf supports, allowing wide range of shelf positions & spacing. Supplied with (3 Nos.). Removable perforated Stainless Steel shelves.
- Full view inner Acrylic door allows inspection of sample without disturbing temp. of working chamber.
- Outer double walled metal door the MAGNETIC GASKET LOCK & KEY.
- Door operated illumination lamp.
- Cabinet mounted on Castor wheels, for ease of movement.

OPERATIONS:

Temp. should be controlled by Digital Temp. Indicator cum controller from 5 – 60 ˚C, Accuracy ± 0.5 ˚C.

Air circulating system is provided by 2 Nos F.H. Motor with fan which keeps uniform temp. throughout the chamber.

* A quite running sealed CFC Free Compressor (**ISI Marked**) with all its protective devices along with a fan cooled condensing unit are placed below the working chamber.

* Heating is done with sheathed heaters.

CONTROL PANEL:- Fitted with LCD TOUCH SCREEN (HMI), having colour display for temp. and storage of data. The data + Date + Time) up to 10000 records (3 to 4 days) can be stored in the internal memory of the HMI which can be downloaded in the USB Pen Drive and easily seen on the PC to excel sheet.

D. Assembly for Complete MICROBIOLOGICAL ANALYSIS OF WATER, of low bacterial load (Total coliform &E.coli at a time) (Quantity:01)	
	Should contain • Microfil Filtration system • Oil free Portable vacuum pump (15 lit/min, 27" max vacuum, max. 35 psi pressure with 1/16 HP motor or better) • Sterilized Microfil Funnels and EZ-Pak membrane compatible with Microfil Filtration system • Individually packed Sterile, Gridded membrane Filters • Filtering Flask 1000 ml with rubber cork & glass tube fitting- 2 nos • Silicon Rubber Tubing, 1.5mm wall thickness- 1.5 mt • Petri Dish Radiation sterile polysterine, with Radiation sterile polysterine made for Bacteriological analysis, pack of 250 nos, 55-60mm dia x 12-15mm height • **Petri Dish- Glass-** Autoclavable 80 mm dia X 17mm height • **Coliform Agar Chromogenic,** for at least 1000 samples • Kovac'sIndole reagent, 100 ml • Forcep SS Blunt tip- 1 no • **Portable Autoclave:** SS- Lid is provided with dial pressure gauge. Spring loaded safety valve, dead weight type safety valve & steam release valve. A joint-less neoprene gasket is also provided for leak proof, 25 lit capacity. • **Water Bath-SS,** SS single hole, concentric ring for reduction of hole dia, heated by immersion heater.
E. Arsenator Digital Arsenic Tester (Qty: 01)	
	• Sensitivity down to 2 µg/l As - unique in a field analysis system • 3-stage filter system increases sensitivity, removes interference from sulphide and protects operators • Comprehensive field kit containing all required accessories and consumables.
F. Digital TDS Meter (Qty: 06)	
	Digital TDS meter, Bright red LED display, Selectable cell constant (0.1, 1 and 10), Calibration points 1 to 3. Supplied with manual, dust cover, stand, rod, clamp & amp: electrode, able to measure conductivity and salinity
G. Electrodes (Qty: 01)	
	Ion-Plus Sure Flow Combination. Measurement Range : 0.02 ppm to Saturated for fluoride 0.1 ppm to 14000 ppm for nitrate 0.1 ppm to 17000 ppm for ammonia Single ion meter with Electrodes, Electrode Holder Stand, Power Adaptor with all respective standard and ISA solution.
I. pH meter (Qty: 06)	
	Microprocessor Based, LCD Display • Range: -1 to 14, 1-5 points calibration • Accuracy: ±0.01pH, Temperature Range: 0 to 150°C • Power required: 9V DC adapter for 220V AC • Memory: 500 readings stand with clamp, Dust cover Std. supply: Electrode: Single Junction pH combination electrode, BNC Connector, cables, ATC probe, Buffer tablets for pH 9.0, 7.0 and 4.0 pH
J. Titration Test Kit (Qty: 06)	
	Non corrosive retort stand with polypropylene covering and clamp, 6 no of burette
K. Water Bath (Qty: 01)	
	Inside made of Stainless steel, Outside made of mild steel with powder coating. 75mm (3'') opening (holes) are provided with concentric ring. Digital temperature indicator cum controller range 5°C above ambient to 99°C. Temperature controller knob and on off switch. Operating on 220/230 Volts A.C.

L. Shaker (01)	
	Angle Iron Structure with mild steel housing with Spray Painted. Complete with F.H.P DC Motor, Pully, Cord Etc. Controllable Speed.
M. Filtration Assembly (Qty: 01)	
	Filter Holder • Material: Stainless Steel Lid, Funnel, base, clamp and filter support of SS perforated filter mesh with 6 place Manifold. • Filter diameter: 47 mm • Filtration area: 12.5 cm2 • Funnel capacity: Autoclable SS body, 47 mm dia with 650 ml (Minimum) Capacity • Suction Flask Cap: 1.0 / 2.0 litre • Operating pressure: Vacuum only Vacuum Pump • Type: Single Phase motor with IP 44 type of protection, with carrying handle and sturdy rubber feet • Vacuum: Should be adequate for smooth filtration of water / waste water. The pump should be an oil free pump / diaphragm with continuous heavy duty type. • Flow Rate /Rating: 15 LPM (maximum) / 0.12 KW or 1/16 HP • Supply Voltage: 230 ± 10 Volts, 50 Hz, Single Phase AC The Filtration Assembly should be complete with perforated Neoprene stopper, Vacuum hose pipes, stainless steel forceps, power cord with plug and toggle switch and operating manual with standard tool kit

All major instruments should be NABL certified

FORMAT FOR QUOTATION SUBMISSION

(In letterhead of the supplier with seal)

Date: .....

To,

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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.: .....