



राष्ट्रीय प्रौद्योगिकी संस्थान मणिपुर
NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR

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An Autonomous Institute under MHRD, Govt. of India.

No. NITM.1/(147-Estt)/CivilDep/2017 - 690

Date: 10.10.2017

To,

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Subject: Enquiry for supply of Equipments & Software for the Department of Civil, NIT Manipur.

Sir,

Please provide sealed rate quotation for supply of the following items as furnished below:

Sl. No.	Description	Qty (Nos.)
1.	<p><u>Gas Chromatography</u></p> <p>GAS CHROMATOGRAPH MODEL 5770</p> <ul style="list-style-type: none">Series 5770 Microprocessor based Gas Chromatograph with Heated Injector, Pneumatics, Heating Section, Temperature Controller of detector and Injector heating Blocks & Oven with Temperature Programming facility, Temperature control Range : AT+3~400°C Temperature control accuracy : ±0.1°C, Auto Cooling Facility, No. of Ramps: 4, Carrier Gas Cut Off switch etc,Installation Kit includes:<ul style="list-style-type: none">a. Soap Bubble Flow Meterb. Silicon Rubber Septums (20 Nos.)c. Set of Fusesd. Set of Toolse. Copper Tubing for Gas Connectionsf. Instruction Manualg. Dust CoverThermal Conductivity Detector (TCD) with Control Module with carrier gas cut-off protection facility. SS Packed Columns of 1/8"OD x 2mtr. Length suitable for the application.Gas Sampling Tadar BagRecording Device Windows based Single Channel Chromatography Data Station with Data Acquisition Hardware, Chromatography Software.Hamilton Gas Tight syringe 1 ml capacityArgon Gas cylinder- 47 Litre water capacity filled with ultra high purity gas with double stage pressure regulator. (In Argon, O2 Less than 2ppm, Moisture less than 2ppm)UPS of 3 KVA capacity having 30 mts. back up suitable for Gas ChromatographStandard Gas Mixture for the Gas in 0.5 litre WC Canister.Sample Displacement Tube for taking Std. SampleGas Sampling Valve (6 Port, Manual) for online analysis of Gaseous Samples	01
2.	<p><u>Portable Air Quality Monitor</u></p> <p>Séries 500 lithium Monitor base with lithium bat logging and PC software</p> <p>Features:</p> <ul style="list-style-type: none">Built-in data-loggingLithium battery as standard	01


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Sl. No.	Description	Qty (Nos.)
	<ul style="list-style-type: none"> ● PC software (Windows 7, 8, XP) ● Connect to PC via USB cable ● High and low alarms, control output ● Link data to a specific location and Interchangeable gas sensor heads (30+ choices) ● Temperature and RH sensor optional (plug -and-play) <p>SENSORS:</p> <p>(i) NO₂ Sensor</p> <ul style="list-style-type: none"> ➤ Sensor Type: GSE ➤ Sensor Code: ENW ➤ Range: 0-1 ppm <p>(ii) SO₂ Sensor</p> <ul style="list-style-type: none"> ➤ Sensor Type: GSE ➤ Sensor Code: ESP ➤ Range: 0-100 ppm <p>(iii) CO Sensor</p> <ul style="list-style-type: none"> ➤ Sensor Type: GSE ➤ Sensor Code: ECN ➤ Range: 0-100ppm <p>ACCESSORIES</p> <ul style="list-style-type: none"> ➤ Carry Case Large ➤ Calibration Accessory ➤ Remote Sensor Kit 	
3.	<p><u>Meteorological data (Lakes Environmental)</u></p> <ul style="list-style-type: none"> ➤ 1 Year(s) of MM5-Preprocessed Meteorological Data, AERMET-Ready ➤ Period: Jan 01, 2016 - Dec 31, 2016 ➤ Latitude: 24.817000 N, Longitude: 93.936800 E, Time Zone: UTC + 5 ➤ Closest City & Country: Guwahati, India 	01
4.	AERMOD View v 9.5 Software	01
5.	<p><u>Bomb Calorimeter</u></p> <ul style="list-style-type: none"> ● Microcontroller based ● Automatic measurement and calculation of CALORIFIC VALUE / WATER EQUIVALENT ● JUMBO size 16 x 2 characters LCD display with backlight ● Temperature Indication : 16 x 2 character Digit display ● Temperature Indication range : 0 – 100 °C ● Differential Temperature Range : 0 - 10 °C (Difference in water temperature before and after firing the bomb) ● Reading Accuracy of Temperature : 0.01 °C ● Firing Voltage : 12 V AC ● Timer control through RTC (Real Time Clock) which makes it highly accurate. ● Thermal printer interface for printing the final result ● 16 soft-touch Keypad for Menu driven settings of different parameters ● Automatic detection of temperature rise & fall. ● Automatic measurement and mathematical calculation of the calorific value/Water Equivalent; which eliminates the ● Requirement of operator to be continuously present to note the maximum temperature rise & to do the calculations manually. ● Weight of tablet feedable through keypad by user. ● Water equivalent settable through keypad by user. ● Automatic calculation for Sample Test or Water Equivalent Test from maximum temperature rise value. ● Full test report printout with date and time & company name. ● TRUE Temperature scanning resolution of 0.01 degree Celsius. ● Automatic alarm on Firing as well as after the test completes. ● Sensor open detection. 	01



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Sl. No.	Description	Qty (Nos.)
	<ul style="list-style-type: none"> ● Fuse wire open detection. ● No paper or printer door open detection. ● User friendly system handling messages on LCD ● Type of test selectable 	

Terms & Conditions:

1. Quotation should reach Registrar, NIT Manipur, Langol on 31.10.2017 at 2:00 P.M.
2. The envelope should be superscribed as “**Quotation for supply of Equipments & Software for Department of Civil, NIT Manipur**”.
3. GST and all other applicable charges must be indicated separately.
4. The vendor must submit the technical brochure of the items providing details specification of the products.
5. Quotation will be opened on 07.11.2017 at 2:00 P.M. at the Department of Civil, NIT Manipur in the presence of the representatives of the vendors. No quotation received after the due date and time will be accepted/entertain.
6. All bidding vendors may send their representatives to attend the opening of quotation.
7. Price must be F.O.R NIT Manipur Stores, Langol, Imphal.

Yours sincerely,


 (R.K. Lalit Singh)
Registrar NIT, Manipur

Copy to:

1. Member, Purchase Committee, Department of Civil, NIT Manipur
2. HOD, Department of Civil, NIT Manipur
3. Technical Officer, NIT Manipur for uploading in website
4. CF/GF