



राष्ट्रीय प्रौद्योगिकी संस्थान मणिपुर  
NATIONAL INSTITUTE OF TECHNOLOGY MANIPUR

Imphal, Manipur, Ph. (0385) 2058566 / 2445812

E-mail:- [director@nitmanipur.ac.in](mailto:director@nitmanipur.ac.in) , Website : [www.nitmanipur.ac.in](http://www.nitmanipur.ac.in)

An Autonomous Institute under MHRD, Govt. of India.

No. NITM.1/(213-Estt)/Civil/DST/Bakim/2016 - 1089

Date: 23.12.2016

To,

.....  
.....  
.....

**Subject: Enquiry for supply of equipments to be used in land degradation risks assessment and monitoring Manipur, India: a multi-scale approach for Civil Engineering Department, NIT Manipur.**

Sir,

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

Sl. No.	Description	Qty (Nos.)
1.	Name of the instrument/accessories: <b>Soil EC meter</b> <b>Specification:</b> Water proof Soil EC meter, Model: 2246 Measuring Parameter: Conductivity, TDS, salinity and temperature Measurement Units: $\mu\text{S}/\text{cm}$ , $\text{mS}/\text{cm}$ , ppm, ppt, mg/l and g/l Accuracy: $\pm 2\%$ Measurement Ranges: Conductivity: 0.00 to 199 $\mu\text{S}/\text{cm}$ , 200 to 1,999 $\mu\text{S}/\text{cm}$ or 2.00 to 19.99 $\text{mS}/\text{cm}$ TDS: 0 to 99.9mg/l, 100 to 999mg/l or 1.00 to 9.99g/l Salinity (fixed ratio of 0.5): 0 to 99.9 ppm, 100 to 999 ppm or 1.00 to 9.99 ppt Temperature: 32 to 194°F (0.0 to 90.0 °C) Conductivity cell, protective sensor cap, sample cup with cap, four SR44W button batteries and 48 in (1.2m) neckstrap. <b>Includes:</b> i) Conductivity Standard, 1.41mS/cm, 250ml; Model: 2251 ii) Field Laptop/Notebook: Intel core i5 processor- 3.2 Ghz, 4GB RAM, 500GB HDD; with data logging capability.	01
2	Name of the instrument/accessories: <b>TDR rods 1.5/3/4.8/8 inches</b> <b>Specification:</b> TDR rods 8 inches; Model 6432FS Sturdy Stainless Steel Field Replaceable	01
3	Name of the instrument/accessories: <b>Probe 8"(20cm) &amp; Probe 24"(60cm) for the soil EC meter.</b> <b>Specification:</b> SMEC probe 6470-20 Range: VWC: 0% to saturation, EC: 0 to 10 $\text{mS}/\text{cm}$ , Temp: 33 to 175°F (0.5 to	01

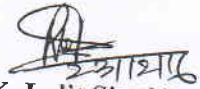
  
23/12/16

	<p>80°C).  Resolution: VWC: 0.1% , EC: 0.01mS/cm, Temp.: 0.1°F(0.1°C)  Accuracy: VWC: 3% , EC: ±2% , Temp.: ±1°F(0.6°C)  Cable Length: 6m standard  Power requirement: 3V @ to 10mA</p>	
	<b>Includes:</b> i) 1200 data logger Model:3680wd1	01
4	<p>Name of the instrument/accessories: <b>Digital Soil compaction.</b>  <b>Specification:</b>  Measurement Units: Cone index (PSI or kPa)  Resolution: 1 in (2.5cm), 5 PSI (35 kPa)  Accuracy: ±0.5 in (0 to 45cm), 0to 1000 PSI (0 to 7000 kPa) pressure  Range: 0 to 18 in (0 to 45 cm), 0 to 1000 PSI (0 to 7000 kPa)  Battery/ Life: 4AAA Alkaline batteries, approximately 12 month life  Data Logger capacity: 772 profiles without GPS, 579 profile with GPS  <b>Includes:</b> Instruments with ½ &amp; ¾ inch cone tips, Field Scout Software  Carry case</p>	01
5	<p>Name of the instrument/accessories: <b>Accessories for SC900, TDR 300 &amp; EC110</b>  <b>Specification:</b>  Accessory for TDR 300 (4.8" rods Model:6431FS3)  2 4.8 in (12 cm) rods  Sturdy Stainless Steel  Field Replaceable  <b>Includes:</b></p>	01
	i) Specs connect software with cable.	01
	ii) Laser Distance Meter. Specification: Power range technology TM P54 dust and water splash protection, Illuminated 3-line display Automatic multifunctional end-piece	01
6	<p>Name of the instrument/Accessories: <b>Digital Soil Moisture (TDR)</b>  <b>Specification:</b>  Measurement Principle: Time- Domain measurement method  Measurement Units: Percent Volumetric water content,  Resolution: 0.01% volumetric water content  Accuracy:±3.0% Volumetric water content with electrical conductivity &lt;2mS/cm  Range: 0% to saturation (Saturation typically around 50%volumetric water)  Battery/Life: 4AAA alkāline batteries; approximately 12-month battery life  Data logger: 3250 measurements without GPS, 1350 with GPS/DGPS  <b>Includes:</b>  Instrument with carry case, rods 1.5 and 3 inches, pilot hole maker, GPS/DGPS cable, GPS mounting bracket, USB to 3.5.mm stereo plug adapter, GPS.</p>	01

  
23/11/2016

7	<p>Name of the instrument/Accessories: <b>IR Infrared Gun Thermometer Digital Temperature Meter Non Contact Laser</b></p> <p><b>Specification:</b>  One lightweight hand held device, easily measures both leaf and soil temperature.  Backlit LCD display  Includes 9V battery, wrist strap and case  Distance to Target Ratio: 8:1  Fixed emissivity: 0.95  Temperature: -40 to 600°F (-40 to 316°C), Accuracy: ±2% or ±3.6°F (±2°C)</p>	01
---	--	----

Yours sincerely,



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

**Terms & Conditions:**

1. Quotation should reach Registrar, NIT Manipur, Langol on 16.01.2017 at 3:00 P.M.
2. The envelope should be superscribed as "**Quotation for supply of equipments for Civil Engineering Department**".
3. Prices must be inclusive of taxes.
4. Prices must be F.O.R NIT Manipur Stores, Langol, Imphal.

**Copy to:**

1. Member, Purchase Committee
2. Technical Officer, NIT Manipur for uploading in website.
3. CF/GF