

**GOVERNMENT OF INDIA  
DEPARTMENT OF SPACE  
INDIAN INSTITUTE OF REMOTE SENSING  
IIRS  
DEHRADUN  
PURCHASE & STORES  
INVITATION TO TENDER**

Ph No: 0135 - 2524317  
Fax 0135 - 2528041  
Email: pns@iirs.gov.in

Date :23/01/2014

Our Ref No : GIER 2013-000459-01

Tender Due: 15:00 Hrs ISTon 11/02/2014

M/s

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Dear Sirs,

Please submit your sealed quotation , in the Tender Form enclosed here along with the descriptive catalogues / pamphlets /literature ,superscribed with Our Ref.No. and Due Date for the supply of the following items as per the terms & conditions mentioned in Annexure( Form No: )

S.No.	Description of Items with Specifications	Unit	Quantity
1	Supply & Installation of Soil Moisture Sensors with Data Logger/Monitor and Telemetry (Specifications as per annexure I & II)	SET	2


**DELIVERY AT:** IIRS

**MODE OF DESPATCH** DOOR DLVRY

**DUTY EXEMPTIONS**

**SPECIAL INSTRUCTIONS** NIL

**SPECIFIC TERMS**

  
**V.V. NARAYANAN KUTTY**  
**PURS. & STORES OFFICER**  
For and on behalf of the President of India  
The Purchaser

O/C

**Terms & Conditions:**

1. Material should be delivered & installated at IIRS
2. The Supplier should submit the dealership certificate along with the quotations from original manufactures or suppliers and should submit the copy of purchase bills from original manufacturers or suppliers along with bill send to IIRS.
3. Payment will be made within 30 days from date of receipt of supply and acceptance of the material for orders value upto Rs.2.0 lakhs.
4. We cannot furnish Form C/D. Please indicate the applicable percentage of Trade tax / VAT in your quotation, if applicable. Otherwise the quoted rate will be considered as inclusive of all taxes.
5. Clearly mention the Make / Brand of the item in your quotation. Please enclosed the Authorization Certificate from the principal of the quoted Make / Model along with the quotation.
6. Also clearly mention the exact delivery period and validity of your offer shall be min 60 days.

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PURCHASE & STORES**

Ph No: 0135-2524317

Fax No: 0135-2524081

Email: [pns@iirs.gov.in](mailto:pns@iirs.gov.in)

Date: 22/01/2014

INDENT NO 2013000459-01 DESCRIPTION


Soil Moisture Sensors

S.No	Description of Items with Specification	Unit	Quantity
	<b>Supply &amp; Installation of Soil Moisture Sensors with Data Logger/Monitor and Telemetry Facility which Should include:</b>	<b>Set.</b>	<b>02</b>

- SOIL MOISTURE TENSION (Solid-state electrical resistance type) – 07 Nos.
- Monitoring Unit/Data Logger having compatibility with sensors and Telemetry Units/Cellular Gateway – 01 No.
- Soil Temperature Sensors in Centigrade compatible with Monitoring Unit/Data logger and recommended by original soil moisture sensors/data logger/interface software manufacturers with connection lead at least 4 m long, RANGE: 0-50°C – 01 No.

Along with warranty and technical support for each of the components

Detailed Specifications as per annexure II enclosed

  
Purchase & Stores Officer  
For and Behalf of the President of India  
The Purchaser

## SPECIFICATIONS FOR SOIL MOISTURE SENSORS WITH DATA LOGGER/MONITOR AND TELEMTRY FACILITY

Sr. No	Item Description
1	<p>a) <b>SOIL MOISTURE TENSION SENSORS</b> (solid-state electrical resistance type);</p> <p><b>Specification :</b> highly corrosion resistant electrodes that are imbedded within a granular matrix;</p> <ul style="list-style-type: none"> <li>• Range: 0-200 Centibar</li> <li>• Permanent sensor- Should not dissolve in soil</li> <li>• Stainless steel enclosure</li> <li>• Fully solid state</li> <li>• Not affected by freezing temperatures</li> <li>• Internal compensation for salinity (commonly found levels)</li> <li>• Maintenance Free</li> <li>• MATERIALS: ABS plastic caps with stainless steel body over a hydrophilic fabric covered granular matrix.</li> <li>• DIMENSIONS – DIAMETER: around 22 mm LENGTH: around 83 mm</li> <li>• WEIGHT: around 0 .067 kg – with 5 ft. lead</li> <li>• WIRE LEADS: AWG 20, 2 leads</li> <li>• WARRANTY: at least One year</li> <li>• CONNECTION LENGTH OF LEAD : at least 4.5 m compatible with monitoring unit/read out unit/Data logger</li> </ul> <p>b) <b>Monitoring Unit/Data Logger having compatibility with sensors and Telemetry Units/Cellular Gateway</b></p> <p><b>Specification :</b></p> <ul style="list-style-type: none"> <li>• Automatically reads sensors at user selectable interval (minimum 1 minute frequency), with date and time tagging facility</li> <li>• Reading capacity/ports (minimum 8 nos.) for soil moisture sensors, soil Temperature Sensors, Tipping Bucket Rain Gauges (with 900M-RGA adapter), Tensiometers (with RSU)</li> <li>• On/Off switch states</li> <li>• 4-20 mA, 0-5 V</li> <li>• 9 Volt battery included</li> <li>• In-field display of current reading</li> </ul> <p>Along with interface Software (for MS Windows included Temperature compensation facility, download history to a computer and Outdoor mount</p> <p>c) <b>Soil Temperature Sensors in Centigrade compatible with Monitoring Unit/Data logger and recommended by original soil moisture sensors/data logger/ interface software manufacturers) with connection lead at least 4 m long</b></p> <p>RANGE : 0 – 50° C</p> <p>The temperature sensor and its output should be compatible with data logger and interface software having temperature compensation facility</p>