

GOVERNMENT OF INDIA
DEPARTMENT OF SPACE
INDIAN INSTITUTE OF REMOTE SENSING
IIRS

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

DEHRADUN
PURCHASE & STORES
INVITATION TO TENDER

Date :29/08/2013

M/s

000000

Our Ref No : GIER 2013-000253-01

Tender Due: 15:00 Hrs IST on 26/09/2013

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 FACILITY , WHICH SHOULD INCLUDE: a) SOIL MOISTURE TENSION SENSORS , DETAILED SPECIFICATION AS PER ANNEXURE-I ENCLOSED	SET	1


DELIVERY AT: IIRS

MODE OF DESPATCH ON SITE

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 & installed at IIRS
2. 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.
3. 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.
4. 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.
5. Also clearly mention the exact delivery period and validity of your offer shall be min 60 days.

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INDENTNO 2013000253 DESCRIPTION SOIL MOISTURE SENSORS WITH DATA LOGGER

SUPPLY & INSTALLATION OF SOIL MOISTURE SENSORS WITH DATA LOGGER/MONITOR AND TELEMTRY FACILITY (SET-01), WHICH SHOULD INCLUDE: (a) SOIL MOISTURE TENSION SENSORS (SOLID-STATE ELECTRICAL RESISTANCE TYPE: NO-07) , b) MONITORING UNIT/DATA LOGGER HAVING COMPATIBILITY WITH SENSORS AND TELEMTRY UNITS/CELLULAR GATEWAY : NO-01 . c) SOIL TEMPETURE SENSORS IN CENTIGRADE COMPATIBLE WITH MONITORING UNIT/DATA LOGGER AND RECOMMENDED BY ORIGINAL SOIL MOISTUER SENSORS/DATA LOGGER./ INTERFACE SOFTWARE MANUFACTURES) WITH CONNECTION LEAD AT LEAST 4 M LONG, RANGE: 0-50°C Add-On: d) REMOTE DATA ACESS UNIT WITH ALL THE NECESSARY ACCESSORIES TO COLLECT DATA AT SERVER/COMPUTER AT CENTRAL FACILITY (IIRS, DEHRADUN) COMPATIBLE WITH DATA MONITOR/DATA LOGGER PREFERABLEY CELLULAR GATEWAY WHICH USES GPRS DATA NETWORK HAVING FACILITY OF SECURE CONNECTION ACCESSIBLE FROM AN WEB ENABLED COMPUTER WITH OUTDOOR ENCLOSURE/ OUTDOOR INSTALLATION CASE, NO- 01) , ALONG WITH WARRANTY AND TECHNICAL SUPPORT FOR EACH OF THE COMPONENTS.

Specific Conditions :

- 1) In case of total cost exceeding the budget available the comparison will be done based on cost of sensors (soil moisture & soil temperature) + cost of monitoring unit / Data Logger as basic setup & then the cost of Remote Data Access Unit will be taken as add-on unit which may be excluded from total cost if required.
- 2) The supplier should submit the dealership certificate along with the quotations from original manufactures or suppliers & should submit the copy of purchase bills from original manufactures or suppliers along with bill send to IIRS.

P. T. O.

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

Sr. No	Item Description
1	<p>a) SOIL MOISTURE TENSION SENSORS (solid-state electrical resistance type);</p> <p>Specification : highly corrosion resistant electrodes that are imbedded within a granular matrix;</p> <ul style="list-style-type: none"> • Range: 0-200 Centibar • Permanent sensor- Should not dissolve in soil • Stainless steel enclosure • Fully solid state • Not affected by freezing temperatures • Internal compensation for salinity (commonly found levels) • Maintenance Free • MATERIALS: ABS plastic caps with stainless steel body over a hydrophilic fabric covered granular matrix. • DIMENSIONS – DIAMETER: around 22 mm LENGTH: around 83 mm • WEIGHT: around 0.067 kg – with 5 ft. lead • WIRE LEADS: AWG 20, 2 leads • WARRANTY: at least One year • CONNECTION LENGTH OF LEAD : at least 4.5 m compatible with monitoring unit/read out unit/Data logger <p>b) Monitoring Unit/Data Logger having compatibility with sensors and Telemetry Units/Cellular Gateway</p> <p>Specification :</p> <ul style="list-style-type: none"> • Automatically reads sensors at user selectable interval (minimum 1 minute frequency), with date and time tagging facility • Reading capacity/ports (minimum 8 nos.) for soil moisture sensors, soil Temperature Sensors, Tipping Bucket Rain Gauges (with 900M-RGA adapter), Tensiometers (with RSU) • On/Off switch states • 4-20 mA, 0-5 V • 9 Volt battery included • In-field display of current reading <p>Along with interface Software (for MS Windows included Temperature compensation facility, download history to a computer and Outdoor mount</p> <p>c) 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</p> <p>The temperature sensor and its output should be compatible with data logger and interface software having temperature compensation facility</p> <p>Optional</p> <p>d) Remote Data Access Unit with all the necessary accessories to collect data at server/computer at central facility (IIRS, Dehradun) compatible with data monitor/Data Logger preferably cellular gateway which uses GPRS data network having facility of Secure connection accessible from an web enabled computer with outdoor enclosure/ outdoor installation case,</p> <p>Specification of Remote Data Access Unit : POWER REQUIREMENT : 12v NETWORK REQUIREMENT: GPRS TEMPERATURE RANGE: -30° to 70° C</p>