

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

Ph No: 0135 - 2524317, 4318
Fax 0135 - 2748041
Email: pns@iirs.gov.in

Date : 18/07/2014

M/s

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Our Ref No : GIER 2014-000155-01

Tender Due: 15:00 Hrs IST on 12/08/2014

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 Digital Water Level Recorder (DWLR) with data logger and telemetry (Technical Specifications given in annexure-1)	NOS	6

DELIVERY AT: IIRS

MODE OF DESPATCH DOOR DLVRY

DUTY EXEMPTIONS

SPECIAL INSTRUCTIONS NIL

SPECIFIC TERMS


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

GENERAL 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. For order value above 2.0 lakhs, 90% payment within 30 days and 10% against Bank Guarantee for the warranty period.
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
6. Compliance Statement of the quoted model may please furnish along with the quotation, without complicity statement quotations will not be considered

Annexure -1: Technical specifications for complete DWLR with data logger + telemetry

Input Sensor– Vertical Shaft/Stilling basin type water level sensor with float device due to water pressure changes
Float Cable Length: 10m
Processor: 16 bit Extreme Low Power
Parameter Monitored: Date, Time, Instantaneous Water Level, Maximum Water Level (Log Rate), Minimum Water Level (Log Rate).
Display: LCD (16 X 2) to display the instrument status.
Membrane Keyboard: To be provided for on-site programming without help of computer.
PC Software: GUI based software for Data download and compatible with latest windows OS.
Accuracy: 0.2% FSO
Real Time Clock: Internal with accuracy of +/- 2 minutes /year & leap year compensation.
Data Logging Interval: 1 min to 24 hrs with facility to program log Start time within next 24 hours
Memory: more than 8192 data points
ADC Resolution: 16+ bits
Battery Life: More than 1.5 Years
Battery: 12V 14AH SMF Battery Pack with integral solar charging kit to keep the batteries charged.
Operating Conditions: Humidity 0 to 100%, Operating Temp: - 20 to 70 °C
Data Output Format: MS- Excel

The DWLR should have unattended recording of Water Level, should have least maintenance schedule.
The float cable length cost per m should be quoted separately. The DWLR should have GSM/GPRS based telemetry.

GSM/GPRS based Telemetry:

For Wireless data transfer from Data logger to website/server. The terminal (GSM/GPRS Modem) to be provided should be a general purpose intelligent device for various remote monitoring applications. The GSM Modem to be connected to Data Logger for transporting data to the web.

Features of GSM/GPRS Modem

- a) A GSM/GPRS enabled SIM is supposed to be installed in the Terminal. Based on the Operator; the GPRS settings have to be configured in the terminal.
- b) Once a proper SIM card is inserted and the terminal should be switched ON, so that it will register to the GSM/GPRS network using public APN.
- c) The terminal should continuously monitor RS-232 port for messages received from the device connected.
- d) When modem receives a valid command in the RS-232 port it should upload the data to a web server in HTTP protocol.

Optional: INSAT based telemetry for remote locations of DWLR (quote separately):

- a) Data logger should be compatible with INSAT based satellite telemetry for real time data transfer for remote locations where GSM/CDM/GPRS based telemetry is not feasible.
- b) The INSAT based system should consist of the INSAT Certified Transmitter, a synchronous interface and cable, a test receiver.

SPECIAL TERMS AND CONDITIONS

1. The entire DWLR System should be supplied with all accessories and should be installed by the vendor at sites decided by IIRS. The system should be made full operational on turn-key basis including all communication devices/charges for a period of three years.
2. Communication- In case GPRS/GSM/INSAT network is not available; the system should store data in the data logger/flash card with 15 min. interval (Industrial grade) for at least 6 months, which can be retrieved at regular interval perfectly through flash cards (industrial Grade).
3. Data logging interval would be from 1 minutes to one hour. Installation and site preparation charges are to be included in the total cost. Full warranty and AMC of all instruments of DWLR is to be provided for first year. Comprehensive AMC along with full warranty is to be provided for a period of next three years and is to be quoted separately.
4. In case of any manufacturing and replacement of parts, it has to be replaced with similar or higher standard spare parts. Calibration certificate of data logger and other instruments should be provided.
5. Quote separately for spare parts and mention their availability for at least 5 years.

MPR Opening Statement

Supply, installation and operationalization of DWLR as per the Specification and condition enclosed on Annexure-1.