



# राष्ट्रीय पादप जीनोम अनुसंधान संस्थान

(जैव प्रौद्योगिकी विभाग, विज्ञान एवं प्रौद्योगिकी मंत्रालय, भारत सरकार का स्वायत्त अनुसंधान संस्थान)

## NATIONAL INSTITUTE OF PLANT GENOME RESEARCH

(An Autonomous Institution of the Department of Biotechnology, Ministry of Science and Technology, Government of India)

अरुणा आसफ अली मार्ग, पो. बाक्स नं. 10531, नई दिल्ली-110067

Aruna Asaf Ali Marg, Post Box Number 10531, New Delhi-110067

संख्या: 8/2015-16/रा.पा.जी.अनु.सं./एस एण्ड पी

दिनांक: 11/12/2015

विषय / Subject: मुहरबंद कोटेशन का निमंत्रण / Invitation of Sealed Quotations

Sealed Tenders are invited on behalf of Director, NIPGR from the Original Equipment Manufacturer or their authorized dealers for the purchase of **01 no. each of Soil Moisture Sensor and Compatible Data Logger with accessories** for the laboratory of our Institute, as per the following specifications:.

### Soil moisture sensor (should be quoted under required item)

- Should be compatible with the data logger
- Range: 0% VWC (Volumetric water content) to Saturation
- Power: 3 to 10V @ 6 TO 10Ma or more
- Output Analog Voltage: 0.5 - 1.5 V for a 3V excitation
- Resolution: 0.1% VWC
- Accuracy: 1-3% VWC
- Sensing Area should not be more than 6 x 2 cm<sup>2</sup>
- Dimensions ≤ 2.4 in (6 cm) x 0.8in (2cm) x 0.1in (0.3cm);
- Probes should be compatible for measurement of soil moisture content in small pots (2 in x 2 in).
- Oscillator Frequency should be 80 MHz
- Connector should be 2.5 mm stereo pin
- Should work under Temperature of 4-70 °C
- Should be easy to calibrate with different soil types.
- Should be compatible with rain and irrigation water
- Should be compatible with software enabling data storage in graphical and tabular form as well as run reports customized to our application.
- Cable Length: 3-5 ft

### Data logger (should be quoted under required item)

- Should have 4 or more External Sensor Port.
- LCD should display current sensor readings (soil moisture sensor along with the accessory sensors) and battery level
- Should be able to log ≥ 10,000 intervals (6 months at intervals of half an hour)
- Data logger should be in water proof material so that it can work under field conditions.
- Data should be stored in all safe non-volatile memory.
- Data should be easily transferrable from the data logger to any PC.
- Should be compatible with the soil moisture sensor



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### Additional accessory items (should be quoted under optional):

1. Internal Sensors to measure temperature and humidity (compatible with the data logger)
  - Operating Temperature Range: 4° C to 55° C
  - Accuracy: +/- 1° C
  - RH Range : 0 to 100%,
  - Accuracy : +/-3% at optimal temperature
2. Additional laptop for data storage (compatible with the data logger)
  - OS- Windows 7/8 or higher
  - Processor- Dual Core or higher
  - RAM- 2 GB or higher
  - Storage- 500 GB or higher
  - Screen Size- 15.6 cm or lower

You are therefore requested to please send your offer in **two bid system** indicating the maximum discount offered, installation charges along with a copy of authorization certificate, issued by the Principals/OEM. The quotations must accompany a Demand Draft amounting to ₹ 1,500/- (Rupees One Thousand Five Hundred only), being the EMD in the name of Director, NIPGR, New Delhi and must be sent in a **Scaled Envelope** duly super-scribed on top of envelope as "**Quotation for Soil Moisture Sensor and Compatible Data Logger with accessories**" so as to reach to the undersigned latest by **31/12/2015 (3:00 PM)**, the same shall be opened on same day at **3.30 PM**.

धन्यवाद,

(कय एवं भण्डार अधिकारी)

Encl: Terms & Conditions (Annex – I)



## Annexure – I

### नियम और शर्तें:

1. Every tender shall be accompanied with the tender cost of ₹ 500/- (Rupees Five Hundred only) in the form of Demand Draft drawn in favor of “**Director, NIPGR**” payable at New Delhi in separate sealed envelope along with the tender. In case the tender cost is not submitted, the tender will not be considered.
2. Every tender shall be accompanied with the required Earnest Money Deposit in the form of Demand Draft drawn in favour of the “**Director, NIPGR**” payable at New Delhi. Any tender not accompanied by such earnest money will be rejected straight away.
3. The rates quoted in the tender shall remain valid for a period **180** days from the date of issue of Award Letter / Letter of Acceptance of Tender. No tenderer can withdraw/or modify his tender or revoke the same within the said period. If a tenderer on his own withdraws or revokes the tender or revises or alters or modifies the tender for any item or condition within the period mentioned in the tender notice, his earnest money deposit shall stand forfeited. Notwithstanding foregoing, the Institute reserves the right to take other actions as deemed appropriate.
4. NIPGR does not bind itself to accept the lowest or any tender and reserves the right to reject any or all tenders without assigning any reason.
5. In two-bid system the tenders should be submitted containing (a) Technical Bid consisting of all technical details along with commercial terms and conditions and (b) Financial Bid indicating item wise price for the items mentioned in technical bid. The technical bid and financial bid should be sealed by the bidder in separate covers duly super scribed and both these covers must be put in a bigger cover which should also be sealed and duly super scribed. NIPGR will not pay any expense, whatsoever incurred by tenderer for the preparation and submission of tenders.
6. The notice inviting tender, will form part of the contract agreement to be executed by the successful tenderer with the NIPGR.
7. All the correspondence on the tender shall be addressed to the Director, NIPGR, Aruna Asaf Ali Marg, New Delhi and any communication addressed to anyone else shall not in any manner be binding upon the NIPGR, Aruna Asaf Ali Marg, New Delhi.
8. The tenderer shall submit a copy of PAN/TIN numbers allotted to them.
9. NIPGR reserves the right to change the quantities of the units while issuing the letter of award of work.
10. The successful tenderer shall be required to deposit an amount equal to 10% of the Tender value as Performance Security after adjusting the Earnest Money Deposit within 10 days from the date of issue of award letter. Performance Security may be deposited in the form of Demand Draft or Bank Guarantee from State Bank of India Or any Scheduled bank. Incase of violation of any condition of Tender, the Security Deposit / BG will be forfeited / revoked.
11. The rates shall be inclusive of Transportation, loading, unloading, taxes etc., nothing extra will be paid.
12. The supplier should be responsible for any damage and site clearance and nothing extra shall be paid.

(कय एवं भण्डार अधिकारी)