



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: 8/2017-18/रा.पा.जी.अनु.सं/ एसएंडपी

दिनांक: 25/5/2017

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. of Plant Growth Chamber** for the laboratory of our Institute in two bid system, as per the specifications attached at Annexure – II.

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 ₹ 16,000/- (Rupees Sixteen Thousand only), being the EMD in the name of Director, NIPGR, New Delhi and must be sent in a **Sealed Envelope** duly super-scribed on top of envelope as “**Quotation for 01 no. of Plant Growth Chamber**” so as to reach to the undersigned latest by **14/6/2017 (3:00 PM)**, the same shall be opened on same day at **3.30 PM**.

धन्यवाद,

(क्रय एवं भंडार अधिकारी)

Encl: - Terms & Conditions (Annex – I)
- Technical Specifications (Annex-II)

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. 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. In case the successful tenderer after award of acceptance of work fails to perform as per work order or violates any condition of tender, the security deposit/ performance security will be forfeited/encashed.
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 to 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 letter of acceptance. Performance Security may be deposited in the form of Demand Draft or Bank Guarantee from State Bank of India or any Scheduled bank which shall be valid till completion of the warranty period of quoted / ordered items. In case 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.

(क्रय एवं भंडार अधिकारी)

Specification of Plant Growth Chamber

The plant growth chamber should have following features-

1. Cabinet construction: Interior should be made of 24-gauge (or better) galvanized electro-zinc plated steel; exterior should be made of 24-gauge galvanized exterior electro-zinc plated steel. Welded seams and joints on outer and inner shells. Inner shell should be supported by non-compressing/ non-thermal material locking inner liner in place without a metal-to-metal bond to outer case. Chamber should be completely self-contained. It should be painted with highly reflective coating for good light distribution. It should have foamed-in-place non-CFC insulation and over all wall thickness of at least 2 inches.
2. The door should close tightly with a magnetic gasket providing a tight seal.
3. Chamber should contain casters assembly and adjustable leveling legs to compensate for floor unevenness and floor should be equipped with floor drain and hose assembly.
4. It should have high quality castor wheels (with locking option) for ease of mobility.
5. The growth chamber cabinet should come with epoxy coated steel wire shelving which can be moved up and down in ½" increment.
6. The growth chamber should have two shelves with light sources, minimum shelving/floor area of 0.5m² /shelf (total 1 m²) and the growing height of not less than 20 inches in each shelf (45 inches or more when using single shelf).
7. Light source should provide light by PAR cool white fluorescent light and incandescent lamps. Light/lamps should be properly place to provide uniform light intensity over entire shelves. Additional sleeves/light filters should be included for each shelf.
8. It should have a minimum of 300 µmoles/m²/s of light irradiance with three ON/OFF light events on each tier.
9. Holder used for tube light should be universal (compatible with different color lights, which also should be available for quoted machine).
10. Control panel should have following features:
 - a. The control panel should be microprocessor based with minimum 50 programs to control light, temperature, humidity in the growth chamber.
 - b. The number of output channels used for control of lighting events should be 23 or more.
 - c. There should be auto-start in case of power failure.
 - d. Dual experiment protection via integrated yet independent temperature limit shutdown. Auto-restart when temperature inside is normal. Temperature low and high deviation alarm, (audio and visual) ambient temperature monitoring.
 - e. Programs should be configurable to run in real time or elapsed time. It should have continuous, diurnal and multi-step program feature.
11. The growth chamber should work in 10 - 44°C temperature conditions with temperature setting accuracy of 0.1°C and temperature uniformity at all temperature be ±0.5°C.

12. Refrigeration should be provided with a self-contained air-cooled condensing unit with hot gas bypass system for continuous compressor operation. It should have solenoid valve and evaporator coil integrating with air circulation fans. No heater should be used for temperature maintenance.
13. Humidity: the cabinet should have an option for maintaining relative humidity of up to 80% with the help of an inbuilt humidifier with electronic sensor (from parent company).
14. The cabinet should have general features like door lock with keys, 220 - 240 volts operation, password protection for controller operation, status LED in front to display mode of operation.
15. Attach catalogue for the model quoted highlighting the important features and including records for installments in Indian institutes.
16. The quoted instrument model should have all other standard feature for proper functioning.
17. The system should come with minimum 2 years unconditional warranty, no additional cost shall be paid during warranty period.
18. The cabinet should come with a standard 5KV servo voltage stabilizer.
Additional light: Besides lights integrated with the growth chamber, an additional complete set of lights/lamps (for each tier) should be supplied.