

National Institute of Plant Genome Research

No.: 8/2019-20/NIPGR/S&P

Dated: 01/7/2019

Corrigendum

This has reference to our tender no. 8/8/2019-20/NIPGR/S&P dated 24/5/2019 published vide CPPP Tender ID No. 2019_NIPGR_472179_1 regarding supply and installation of 04 nos. of Plant Growth Chambers at NIPGR.

In this context, the following changes may please be noted for compliance.

Revise specifications

| S.No. | Description |
|-------|---|
| 1 | Growth Area: 55-60 Sft in three tier |
| 2 | Growth Height- 14-22-inch Per Tier in Three Tier configuration |
| 3 | Floor Dimensions: ≤ 101 inches (L) x 41 inches (W) x 112 inches (H) |
| 4 | Temp Range: 10-40± 0.7°C Deg C (Light ON) and 4-40 ± 0.5°C(Light OFF) at all control set point |
| 5 | RH- up to 90% or better using Spray nozzle humidifier with dehumidification to maintain stable RH |
| 6 | Light Intensity: 300-500umole/m ² /s @ 6" from the lamp bank per Tier, using Fluorescent Lamp and incandescent lamp, horizontally placed in each Tier. Total Three Tier. Fluorescent lamps to cover PAR spectrum with 40-100% control with Dimmable tier or event based with PAR sensor |
| 7 | Air Flow: Uniformly distributed air circulation using air diffuser and travel thru shelves (Horizontal Air flow) |
| 8 | Single Board Controller to control Temp, Light, RH, Dual experiment protection via integrated yet independent temperature limit shutdown. Temperature low and high deviation alarm (audio and visual); ambient temperature monitoring Light control: The growth chamber should have a 24 hours photo- period provided with day and night/ Diurnal/ Multi step program in ramping or elapsed time. Multiple program to be linkable to create complex environment condition. Power failure event logging. Password protection for controller operation, status display on controller for mode of operation. on Board Ethernet connection with Email Alert |
| 9 | Refrigeration should be provided with Remote air-cooled condensing unit with hot gas bypass system for continuous compressor (CFC and HCFC free refrigerant) operation. Electronic/ Solenoid Valve with Quiet operation and precise temp control. |
| | Other Required Specifications |
| 10 | The cabinet should have two doors with magnetic gasket providing a tight seal. |
| 11 | Chamber should contain casters assembly and/or adjustable levelling legs to compensate for floor unevenness and floor should be equipped with floor drain and hose assembly. |
| 12 | The cabinet should have two power sockets inside the chamber to connect any small equipment. To have on/off control of one power receptacle thru controller. |
| 13 | 220 Single/ 3 phase, 50Hz operation |
| 14 | Attach catalogue for the model quoted highlight the important features and including records and performance statement of (3-5) such installations in India out of which at least 01 should be working satisfactorily for more than 5 years. (we may visit for on-site Demo) |
| 15 | Suitable Servo Voltage Stabilizer for chamber and offline UPS for controller dedicated for each chamber. |
| 16 | Local service person based in Delhi and service calls should be attended in 24-48 hours |
| 17 | Complete one set of Extra Fluorescent lamp to be provided with each chamber |
| 18 | Warranty: Three years comprehensive warranty (with free software upgrade). Warranty parts to be replaced by company on DDP/FOR basis with ZERO or No additional cost to NIPGR. The cost for additional two year of warranty may be quoted as optional. |
| 19 | optional: Quote Temp range to 60°C, CO ₂ addition and CO ₂ removal |
| 20 | Technical bid to be submitted and all components/ module/ accessories being provided/ quoted should be clearly specified with information. |
| 21 | Price to be quoted in CIF Delhi ICD basis or FOR NIPGR basis |
| 22. | The vendor should submit a certificate from principals stating that the spares / accessories for the quoted model will be available for next 10 years |

All other terms and conditions of the tender remain unchanged. The Corrigendum forms a part of the main Tender mentioned above.