

# 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

8/59/2019-20/NIPGR/S&P

Dated: 06/01/2020

### Corrigendum

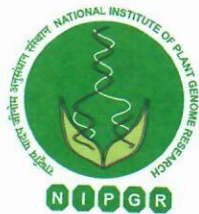
This has reference to our tender no. 8/59/2019-20NIPGR/S&P dated 17/12/2019 published vide CPPP Tender Id No. 2019\_NIPGR\_527993\_1 regarding supply and installation of 01 No. of Plant Growth Chamber at our Institute.

In this context, this is to mention that the specifications have been revised, the required specifications may be read as under.

### Specification for Plant Growth Chamber

Sr no.	Description
01	<b>Growth Volume:</b> 1100- 1500 liters or more
02	<b>Control Features:</b> A. Control system should have atleast full color/Black and white, high resolution touchscreen/touch pad B. Control system should be capable of storing multiple real-time user-entered programs. Each program should define a single 24-hour period. Programs should then enter into a "Schedule" to create a single day, multi day, or seasonal schedule. C. Controller should have Password-protected security for users, administrators and service personnel. Controller should be capable of storing multiple names and passwords for user and administrator profiles. D. Controller should have Audible and visual alarms are User-settable absolute alarms for all controlled processes E. Controller should be capable of programmed with varying restart times to reduce start-up loads after a power failure.
03	<b>Construction<sup>1</sup>:</b> 2.1 Exterior Dimensions 41-81"W x 30-35"D x 76-85"H 2.2 Should allow passage through a standard 36" or more 2.3 Exterior Finish: Powder Coated Steel/Galvanized 2.4 Interior Finish: Reflective white, powder-coated stainless steel for corrosion resistance, long life, ease of cleaning and maximum light uniformity/SS-304 2.5 Casters: Heavy duty, swivel casters should be provided. Adjustable leveling bolts should be provided to secure the unit. 2.6 Instrument port: One (1) measuring 2" with light tight cap should be provided.
04	<b>Growth Area:</b> Tiers: Three or more adjustable tiers, Growth area should be minimum 1.9 to 2 m <sup>2</sup> . Shelves: Three (3) height-adjustable, steel wire shelves
05	<b>Growth Height:</b> Growth Height: Minimum 31-46 cm growth height required on each tier





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06	<b>Lighting:</b> (Measurement at 150mm with chamber temperature of 25°C) A. Intensity: At least 370-400 $\mu$ mol/m <sup>2</sup> /s minimum intensity over each tier. B. Programming and Control: Closed loop dimmable lamp control through controller interface, represented in $\mu$ mol. Light intensity dimmable through controller with an output range as low as 10% and up to 100% of maximum intensity.
07	<b>Temperature Control:</b> A. Range: +4°C to +44°C lights OFF and +10°C to +44°C lights ON B. Control: $\pm 0.5^\circ\text{C}$ , at control point. C. Primary: A programmable min and max temperature or a limit alarm. Safety temperature limit factory preset, independent from control system, turns chamber off.
08	<b>Refrigeration System:</b> 5.1 Condensing unit: Cabinet should be supplied with a top mounted, air-cooled condensing unit with hot gas bypass system for continuous compressor operation, extended compressor life and close temperature control. 5.2 Refrigerant: Condensing unit should be charged with CFC-free refrigerant.
09	<b>Air Flow:</b> A. Air flow should be delivered horizontally from rear wall plenum providing uniform environmental conditions.
10	<b>Door:</b> A. One or two flush, full-width doors required with keyed magnetic locks and gaskets for positive perimeter seal.
11	<b>Relative Humidity:</b> <b>Humidity Control: (Based on +21°C and 50% R.H. ambient condition)</b> A. Range: Resultant to 75% RH lights ON, 80% RH lights OFF, limited by a +25°C dew point. This range is given for empty chamber. B. Additive Humidity with dehumidification: Additive humidity through use of Ultrasonic Humidifier/Pan type should be provided. C. Control: $\pm 10\%$ RH.
12	F. Two year warranty should be provided.
13	Required accessories: Data handling unit along with complete system such as mouse, processor and display. 16.0-inch (diagonal) LED-backlit display with IPS technology; 3072x1920 native resolution at 226 pixels per inch with support for millions of colours 2.6GHz 6-core Intel Core i7, Turbo Boost up to 4.5GHz, with 12MB shared L3 cache, storage 512 GB, Memory 16GB of 2666MHz DDR4 onboard memory, Graphic AMD Radeon Pro 5300M with 4GB of GDDR6 memory and automatic graphics switching Intel UHD Graphics 630, macOS Catalina, 96W USB-C Power Adapter, USB-C Charge Cable (2m). Additional display Unit: White and Colour Brightness at 3,600lm XGA resolution, High contrast ratio of 15,000:1, Horizontal keystone slider 10,000 hours lamp life in eco-mode, USB, HDMI Port

Last Date / time of submission of Bids: **16/01/2020 (3.00 PM)**

Vice

06/01/2020 (3.00 PM)

Opening of Bids:

**17/01/2020 (3.00 PM)**

Vice

07/01/2020 (3.00 PM)

This Corrigendum will form part of the Original Tender Document. All other terms and conditions of the above tender remain unchanged.

(क्रय एवं भंडार अधिकारी)