

INDIAN INSTITUTE OF TECHNOLOGY
DEPARTMENT OF CIVIL ENGINEERING

Ref. No. IITK/CE/HWRE/2025-26/03

Date: 04.09.2025

Name of Item: **Plant Growth Chamber**

Quantity: 01

Specifications:

Quotation in sealed envelope is sought for a fully automatic Plant Growth Chamber with the specifications tabulated below. The **quoted item must have CE (Conformité Européenne) certification** and this certificate must be enclosed with the quotation. All quotations without this certificate will be rejected.

Dimension

Capacity	300 L
Depth	20 to 25 inch
Width	20 to 25 inch
Height	35 to 40 inch
Shelves	4 to 6 (Removable trays)

Technical Parameter

Temperature

Temperature range	(0 °C to 60 °C (Light ON: 10 °C to 60 °C),
Temperature Accuracy	±0.5 °C at 20 °C
Program	10 step Program
Illumination Type	Growth Lamp
Illumination	Max. 23000 Lux
Controller	Microprocessor PID controller with CE certification

Humidity

Humidity Range	50% to 95% RH
Humidity Accuracy	+/- 3 %
Program	Minimum 10 step Program
Sensor	Electronic Device with CE certification
Controller	Color Touchscreen with CE certification
Illumination Period	Minimum 7 step Photo-Period Control, 10 step programmable
Illumination Type	Fluorescent Lamp

Others

Cooling Device	Hermetically sealed compressor, auto exchanged dual evaporator
Refrigerant Gas	R-134a Eco-Friendly Gas
Insulation	PUF or comparable
Doors	Double door, silicon packing magnet door
Computer Interface	USB Port
Power Supply	220-240 v, 50 Hz
Construction	Outer: GIPC Inner: Stainless Steel 304 (Grade must be specified)

Note:

1. The quotation must accompany the company and specifications for all the third-party materials, sensors and controllers used in the quoted plant growth chamber along with their warranty.
2. The quotation has to submit CE certificate specific to the model/item quoted. A list of sales of the quoted model to the international institutes must be provided.
3. The quotation has to submit certificates from the National Testing Agencies specific to the model/item quoted. A list of sales of the quoted model to any Research and Educational Institutes of National Importance, e.g. IITs, NITs, IISER, TIFR, IISc etc., must be provided
4. The OEM should have at least Rs. 10 crore average Turnover in last financial year

The quotation should have the following details:

1. The rates should include all taxes of the item with technical specification in detail along with warranty and guarantee period.
2. Technical specifications in details.
3. Maximum educational discount considering end use for research and teaching should be applied.
4. Payment terms: 100% after satisfactory installation/inspection.
5. Delivery within 45 days of placing the order.
6. Prices should be quoted on the basis of delivery to IIT Kanpur.
7. Warranty: 1 Year must be clearly mentioned.
8. All quotation must reach undersigned by **5:00 pm September 22, 2025.**

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