PANJAB UNIVERSITY

DEPARTMENT OF BOTANY
CHANDIGARH - 160 014
(Estted. Under the Panjab University Act VIII of 1947 – enacted by the Govt. of India)

Dr. S. K. Upadhyay
Principal Investigator

N.I.Q.

☎ (91) (0172) 2534001 (Off.)
E-mail: skupadhyay@pu.ac.in

UNDER REGISTERED POST

Ref. No. 17-21/SKU/Bot
Date: 27.4.2017

Dear Sir,

Please quote your lowest rates in DUPLICATE, for the item (s) given below as per the specifications. Your quotation should reach the undersigned on **or before 10.5.2017.**

Plant Growth Chamber:
Specifications of

Chamber Construction	Floor standing
Capacity	≥300 Liter
Temperature range	5 °C to + 60 °C with an accuracy of +/- 1°C
Humidity range	30% RH to 98% RH with sensitivity of +/- 3%
Illumination	Automatic Clock based Light / Dark control system comprising of fluorescent lights.
Test Cycles	Multiple Settable Cycles Control system with memory to preset test cycles as per requirements.
Data memory & print	Pendrive Interface for easy logging data transfer to PC
Display	1,00,000 Data Logging Readings. Data Logging with data memory & optional added Thermal printer facility.
Controller	Microprocessor/Microcontroller based Controller.
Pendrive Data Collection	Pendrive Interface for easy logging data transfer to PC
Alarms	Customized alarm system to warn various parameters, such as Low/High Temperature, Low/High Humidity, Low Water, Door Open, etc.
Plant Growth Chamber Construction	
Outer Panels	Outer panels are made of High Grade Stainless Steel Sheet Grade 304
Interior Panels	Interior panels are made of High Grade Stainless Steel Sheet Grade 304
Door	Standard hinged door with Double gasket seal between the door and the cabinet to prevent any temperature/Humidity loss thus increases system efficiency.
Insulation	Polyurethane foam insulation with a thickness of 50mm or more
Shelves/Trays	Perforated Stainless steel Trays. (As per requirements). Stainless steel trays lift out for easy cleaning.
Reservoir drain	Recessed Reservoir drain, with convenient drain hose, is easily accessible and a screened based prevents rodent infestation.
Castors	Castors for minimal effort mobility.
Plant Growth Chamber Refrigeration system	
Refrigeration system	Superior refrigeration system with optional Backup refrigeration system. Uniform refrigeration is maintained through the use of air-cooled, high torque, hermetically sealed condensing unit. High quality cooling system components include: efficient fan circulation evaporator coil with thermal expansion valve, moisture-liquid indicator, filter drier, heat exchanger, and pressure control valve. All refrigerant lines are copper and fully insulated.
Compressor	Heavy duty Air-cooled compressor. The compressor is distinguished by its excellent performance, low noise level (<60dB) and minimal vibration.
Condenser	Highly efficient condenser with automatic condensate evaporating system.