

**1. “Expression of Interest” notification for the procurement of a
“Augmenting Plant Tissue Culture and Growth Facility”**

(Last date for submission of tenders April 22, 2021)

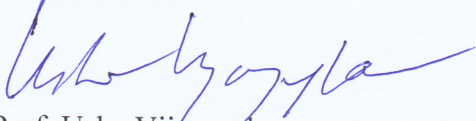
Dear Sir/Madam,

The Division of Biological Sciences, Indian Institute of Science, Bengaluru, expresses interest for procuring TWO turnkey **plant growth rooms** under the facility named **Augmenting Plant Tissue Culture and Growth Facility** for growing plants under controlled environmental conditions. The interested companies should have competence in building plant growth walk-in chambers with clean air facility, controlled-environment for growing model plants capable of supporting growth of both temperate (such as *Arabidopsis thaliana* in the FIRST room) and tropical (such as tomato in the SECOND room) species with light intensity from 8000 LUX (for temperate plants) to 20,000 LUX (for tropical plants). The growth facility should have a 24 hours photo-period and option should be there to control the photoperiod. The temperature range inside the growth room should be 10-40 °C. Temp. should be stable ($\pm 0.5^{\circ}\text{C}$) on complete temp range regardless of outside temperatures. Setting accuracy 0.1C. It should be able to control the humidity from ambient to 90%. The work would involve Design, Execution and Validation of the facility, installing air management system, making modular clean rooms (TWO in number), handling specified temperature, control panels, plant growth racks with light systems, making electrical cable system and earthing, laminar flow of clean air on the growth racks with appropriate velocity etc. A shed (at the ground level) for the facility will already be provided to the company.

The companies should have long experience in this work and prior projects executed in plant growth facility. It should have prior experience in not only building clean rooms, temperature and humidity management using latest technologies, but also in plants growth requirements and light control. Please furnish details.

The interested companies will be asked to present the proposal in front of a ‘Technical and Purchase Committee’ appointed by Indian Institute of Science and the short-listed companies will be asked to submit quotations. **Respond to this notice should come only from Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.** The interested companies are requested to respond to this notice latest by 5 PM, 22nd April 2021.

Contact details:



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