

**Document for Proposal  
to Strengthen Existing Tissue Culture Laboratory for the Production of  
plantlets of High Value Horticultural Crops. (Package No. GD/Hortex/57/2013-14).**

**A. Background**

National Agricultural Technology Project (NATP) under Ministry of Agriculture (MoA) funded by the World Bank (through IDA credit) and International Fund for Agricultural Development (IFAD) & GoB. The Supply Chain Development Component (SCDC) as one of the components of this project is implemented by Hortex Foundation since October 2008. It covers 20 Upazilas namely Comilla Sadar, Chandina, Savar, Bogra Sadar, Shibgonj, Mirsarai, Belabo, Shibpur, Jessore Sadar, Jhikorgacha, Parbotipur, Sreemongal, Delduar, Kapasia, Kaliakoir, Birgonj, Pirgonj, Boraigram, Singra, Trishal, under thirteen districts. The development objectives of this component are to integrated small and marginal farmers agro business enterprise into modern supply chain by promoting more equitable change governance and market linkages of high value agro commodities such as fruits, vegetables, flower, dairy, meat and fish. The project works through Common Interest Group (CIG) in 20 Upazilas and each group comprises of 20 farmers. This component works in close co-operation with the Department of Agriculture Extension (DAE), Department of Livestock Services (DLS) and Department of Fisheries (DOF) under the Project Co-ordination Unit (PCU). Major activities of the component include (a). Increase productivity of targeted commodities. (b). Improvement of post harvest management to reduce loss. (c). Strengthening farmer market linkage. (d). Knowledge management of the difference stock holders. (e). Promotion of contract/ group farming and (f). Development of entrepreneurs.

**B. Purpose/ Objective:**

Hortex Foundation plans to strength selected tissue culture laboratory/s by providing equipments, chemicals, glassware, greenhouse etc and training on human resource facilities to increase the production capacities of plantlets of high value crops such flower & Fruits. The plantlet will be given to Common Interest Group (CIG)/Non Common Interest Group (Non CIG) farmers in the project site to improve the productivity and quality of targeted crops.

**C. Nature & Mode of support:**

We like support to strengthen one or more laboratories with the following items:

**1. Equipments & Appliances:**

- a. Laminar Air Flow Cabinet, b. Hot Bead Sterilizer, c. Autoclave, d. Analytical Balance, e. pH Meter, f. Orbital Shaker, g. Water Distillation/ De-ionizing Plant, h. Micropipette, i. Microscope, j. Refrigerator, k. Air conditioner, l. Generator, m. Microwave Oven

**2. Chemicals:**

Potassium Nitrate, Ammonium Nitrate, Potassium Dihydrogen Phosphate, Calcium Chloride, Magnesium Sulfate, Sodium EDTA, Manganese Sulfate, Ammonium Sulfate, Tri-calcium Phosphate, Myo-inositol, 6-Benzyl Amino Purine, Kinetin, Gibberellic Acid, Indole 3-Butyric Acid, Indole 3-Acetic Acid, Naphthylene Acetic Acid, Adenine Humic Sulfate, Ethyl Alcohol, Agar Powder, etc.

**3. Glassware:**

Culture vessel (low cost empty pickle jars), Reagent Bottles, Conical flasks, Measuring Cylinders, Petridishes, Beakers, etc.

**4. Small Green House renovation of existing one/Establishment of new one.**



