

## **Capsicum Production in Greenhouse - Level 3 (IHT-114)**

### **DURATION - 6 Months**

#### **Module 1: Introduction To Vegetable Production With Special Reference To Capsicum**

Present Status and Prospect  
Importance, Scope and Advantages  
Classification  
Nutritional and Pharmaceutical Value  
Importance of Year Round Vegetable Production  
Scope of Off-season Cultivation

#### **Module 2: Location and Size of Capsicum Production System**

Site Analysis for Protected Cultivation  
Construction Principles for Protected Structures  
Financial Planning of Protected Cultivation  
Identification and Importance of Tools, Implements and Gadgets Used for Farm

#### **Module 3: Principles of Greenhouse Technology for Protected Cultivation**

Introduction  
Importance, Scope and Advantages  
Recent Scenario  
Classification of Greenhouse Structures  
Green House Designs  
Location Selection  
Planning and Construction of Greenhouses  
Construction Principles  
Construction Materials  
List of Companies Involved  
Management of Light, Temperature and Humidity  
Ventilation/Airflow Management  
CO<sub>2</sub> Enrichment

#### **Module 4: Water Management in Greenhouse**

Water Source and Quality and Water Needs of Plants  
Detecting Water Deficiencies and Critical Stages of Irrigation  
Calculation of Water Usage  
Stages of Irrigation  
Flood, Furrow Drip Irrigation System  
Soil Moisture Measurement  
Maintenance of GH Irrigation System  
Components of Drip Irrigation  
Maintenance of Drip Lines, Valves and Emitters

#### **Module 5: Fertigation and Nutrient Management**

Macro and Micro Nutrients and Requirement at Different Stages  
Method of Application in Direct Soil  
Method of Application through Foliar Application  
Formulation of Fertilizers for Basal, Drip and Foliar Application  
Technology of Fertigation

Stock Solution

**Module 6: Nursery Management**

Methods of Propagation  
Plug Type Nursery Production  
Care and Handling of Nursery Plants  
Irrigation and Plant Protection  
Hardening and Transplanting  
Name Firms Dealing with Seedling  
Selection of Seedlings and their Characteristics

**Module 7: Capsicum Production**

Varieties Selection  
Environment and Substrate Requirements - Mulching  
Soil Preparation  
Bed Preparation  
Transplanting  
Intercultural Operations  
Management of Insect Pests and Diseases  
Physiological Disorders and Management  
Harvesting Indices and Harvesting  
Post-harvest Management and Marketing  
Demonstration in Polyhouse on Crop Culture

**Module 8: Post-Harvest Management and Marketing**

Economics Computation  
Demand and Supply Gap Identification  
Identification of Maturity Indices As Per Market Demand  
Harvesting Methods of Vegetables and Instruments Used  
Pre Cooling, Washing, Grading and Packing  
Storage Temperature and Humidity Requirements  
Marketing Produce Options - Local, Distant and for Export  
Benchmark for Export-APEDA Standards