

### Syllabus for Short Term Course for Tea Plantation Assistant

|                                      |                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Course Name</b>                   | <b>Tea Plantation Assistant</b>                                                                                                                                                                                                                                                                                   |
| <b>Sector</b>                        | <b>AGRICULTURE</b>                                                                                                                                                                                                                                                                                                |
| <b>Course Code</b>                   | <b>STC-AGR/2025/0283</b>                                                                                                                                                                                                                                                                                          |
| <b>Level</b>                         | <b>2.5</b>                                                                                                                                                                                                                                                                                                        |
| <b>Occupation</b>                    | <b>Tea Plantation Assistant</b>                                                                                                                                                                                                                                                                                   |
| <b>Job Description</b>               | Tea Plantation Assistant involves assisting in the basic operations of tea cultivation, including planting, plucking and maintaining tea bushes under supervision                                                                                                                                                 |
| <b>Course Duration</b>               | <b>270 Hrs. (Theory 60 hrs., Practical 120 hrs., ES 30 hrs., OJT 60 hrs.)</b>                                                                                                                                                                                                                                     |
| <b>Trainees' Entry Qualification</b> | 9th Grade pass<br>OR<br>8th Grade pass and pursuing continuous Schooling<br>OR<br>5th grade pass with 4 years relevant experience<br>OR<br>Ability to read and write with 5 years relevant experience<br>OR<br>Previous relevant Qualification of NSQF Level 2 with 6 months relevant experience.                 |
| <b>Trainers Qualification</b>        | 12 <sup>th</sup> class passed with elective Agriculture with 5 years' experience in the relevant field.<br>OR<br>Diploma in Agriculture/Horticulture with 3 years' experience in relevant field<br>OR<br>Graduate with Agriculture/Horticulture/B.Sc. in Tea Science with 1 year experience in the relevant field |

### Structure of Course:

| Module No.   | Module name                          | Outcome                                                                                                  | Compulsory/ Elective | Theory (Hrs) | Practical (Hrs) | OJT (Hrs.) | Total (Hrs) [Multiple of 30] |
|--------------|--------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------|--------------|-----------------|------------|------------------------------|
| 1            | Botany of Tea and Nursery Management | Identify tea plant parts, harvesting methods, propagation and nursery management techniques.             | Compulsory           | 20           | 40              | -          | 60                           |
| 2            | Agronomy of Tea                      | Prepare land, plant tea and manage young plants                                                          | Compulsory           | 20           | 40              | -          | 60                           |
| 3            | Soil and Water Management in Tea     | Explain soil fertility, nutrient deficiency, manures, fertilizer, sprinkler, irrigation system, drainage | Compulsory           | 10           | 20              | -          | 30                           |
| 4            | Pest and its Management              | Identify tea pests and diseases and control them                                                         | Compulsory           | 10           | 20              | -          | 30                           |
| 5            | OJT                                  | Work in real job situation with special emphasis on basic safety and hazards in this domain (OJT).       | Compulsory           | -            | -               | 60         | 60                           |
| 6            | Employability Skill                  | As per guided curriculum                                                                                 | Compulsory           | 30           | -               | -          | 30                           |
| <b>TOTAL</b> |                                      |                                                                                                          |                      | <b>90</b>    | <b>120</b>      | <b>60</b>  | <b>270</b>                   |

## DetailedSyllabus:

### MODULE1-BOTANY OFTEAANDNURSERYMANAGEMENT

**Outcome:** Identify tea plant parts, harvesting methods, propagation and nursery management techniques.

#### Theory Content:

1. **Introduction to Tea Botany (4 Hours)**
  - 1.1 Origin, species (*Camellia sinensis*)
  - 1.2 Plant morphology (roots, stem, leaves, buds, flowers)
2. **Physiological Functions (4 Hours)**
  - 2.1 Photosynthesis
  - 2.2 Transpiration
  - 2.3 Nutrient transport
  - 2.4 Growth stages.
3. **Propagation Methods (2 Hours)**
  - 3.1 Seed germination (sexual)
  - 3.2 Vegetative methods (cuttings, layering, grafting)
4. **Site Selection & Soil Factors (4 Hours)**
  - 4.1 Soil types
  - 4.2 pH
  - 4.3 Drainage
  - 4.4 Micro-climate, altitudes, land preparation
5. **Nursery Construction & Layout (2 Hours)**
  - 5.1 Beds vs polybags
  - 5.2 Shading
  - 5.3 Irrigation scheduling
6. **Plant Nutrition & Media Preparation (2 Hours)**
  - 6.1 Composition of potting media
  - 6.2 Fertilizers& manures
7. **Pest & Disease Management in Nurseries (2 Hours)**
  - 7.1 Common pests
  - 7.2 Bio and chemical controls, sanitation.

#### Practical Content:

1. **Nursery bed layout & soil prep (10 hrs.)**
  - 1.1 Site Clearing & Plot Marking, Clear debris and level the site, mark beds (e.g., 1.2 m × 3.6 m) using ropes, pegs. (2 hrs.)
  - 1.2 Soil Loosening & Clod Breaking. Dig to -38 cm depth; break clods with hoes, Remove stones and roots. (3 hrs.)
  - 1.3 Mixing Organic Amendments, Incorporate FYM/compost (3–10 kg/m<sup>2</sup>) into soil uniformly, Adjust to desired texture. (3 hrs.)
  - 1.4 Bed Final Smoothing & Shaping, Level and firm beds; form raised beds with ridging or sunken beds per season. (2 hrs.)
2. **Seed sowing, cuttings, budding/grafting (10 hrs.)**
  - 2.1 Seedbed Sowing: Sow seeds 2–4 cm deep; maintain 8–10 cm spacing; cover with FYM-sand mix, Water gently post-sowing. (3 hrs.)

- 2.2 Cutting Preparation & Planting: Select healthy shoots; trim to 1 leaf with 3–4 cm stem. Soak in fungicide for 30 min; plant stems at angle, leaf above soil. (3 hrs.)
- 2.3 Budding Technique: Demonstrate patch or cleft budding on rootstock; bind with tape/rubber. (2 hrs)
- 2.4 Grafting Technique (2 hrs.): Practice cleft grafting; ensure cambial alignment; tape and seal graft unions, Hardening off seedlings, Nursery setup visit. (2 hrs.)
3. **Media Mixing, Transplanting & Repotting (10 hrs.)**
  - 3.1 Potting Media Composition: Blend topsoil, compost, perlite/vermiculite in 2:1:1 ratio; sterilize if needed. (3 hrs.)
  - 3.2 Filling & Labelling Containers: Fill polybags/pots; label variety, date, and trainee name. (2 hrs.)
  - 3.3 Transplanting Seedlings: Lift seedlings gently; transplant to pots ensuring proper root placement. (3 hrs.)
  - 3.4 Repotting Old Seedlings: Transfer 3–4-month-old seedlings to larger containers to prevent root binding. (2 hrs.)
4. **Hardening Off Seedlings & Nursery Visit (10 hrs)**
  - 4.1 Hardening Process:
    - Week 1: Loosen polysheet to allow limited airflow,
    - Week 2: Roll sides up to 30cm,
    - Week 3 Onward: gradually increase exposure until fully uncovered.

Maintain soil moisture and apply light nutrient spray during hardening. (6 hrs.)
  - 4.2 Field Visit to Established Nursery:

Observe bed layout, shade structures (3 m height), irrigation, and cultural practices. Note plant staging, monitoring, pest management, and record maintenance. (4 hrs.)

## **MODULE 2: AGRONOMY OF TEA**

**Outcome:** Prepare land, plant tea and manage young plants.

### **Theory Content:**

1. **Introduction to Tea Agronomy (2 hrs.)**
  - 1.1 Agro-ecological requirements for growing Tea (Climatic requirement, Soil & Topography)
  - 1.2 Overview of agronomic practices in tea cultivation.
2. **Land Preparation and Planting (3 hrs.)**
  - 2.1 Site selection and soil requirements
  - 2.2 Steps in Land clearing, contour marking and layout
  - 2.3 Choices of Planting Materials (Seed vs Clonal)
  - 2.4 Planting methods and spacing
3. **Young Tea Management (3 hrs.)**
  - 3.1 Proper Nursery management strategies
  - 3.2 Formation of bush frame (Decentering, Thumb pruning, Debudding, FFP techniques)
  - 3.3 Post-Planting care of tea plants (Shade, Water, Nutrition, Mulching)
  - 3.4 Plant Protection measures (Weed, Pest, Diseases management)
4. **Management of infills (2 hrs.)**
  - 4.1 Criteria for Selection of Sections for infilling
  - 4.2 Timing and methods of infilling

5. **Tipping and Plucking of Tea (3 hrs.)**
  - 5.1 Concept and Objectives of Tipping
  - 5.2 Role of Maintenance Foliage
  - 5.3 Plucking standards: plucking table, plucking rounds, and frequency
  - 5.4 Hand Plucking vs Mechanical Plucking
6. **Pruning and Skiffing of Tea (3 hrs.)**
  - 6.1 Importance and Objectives of Pruning
  - 6.2 Types of Pruning i.e rejuvenation, light, and medium pruning
  - 6.3 Skiffing: Deep skiff, Medium skiff, Light skiff, Level off skiffing
  - 6.4 Post-pruning Operations
7. **Shade Trees and their Management (2 hrs.)**
  - 7.1 Characteristics of Ideal Shade Tree and their role in Tea plantations
  - 7.2 Common shade tree species: Permanent Shade trees and Temporary Shade trees
8. **Weed Management in Tea plantations (2 hrs.)**
  - 8.1 Types of weeds in Tea fields
  - 8.2 Practices of Manual, mechanical, and chemical weed control in Tea
  - 8.3 Weed control schedule and safety measures

**Practical Content:**

1. **LandPreparationandPlanting(6hrs.)**
  - 1.1 Fieldmarking,pit diggingdemonstration.
  - 1.2 Preparationandplantingofteabushes.
  - 1.3 Plantspacingandalignmentpractice.
2. **Nurseryand YoungTeaCare(6hrs.)**
  - 2.1 Nurserybedpreparation.
  - 2.2 Transplantingandinitial care.
  - 2.3 Mulchingand shadingsetups.
3. **TippingandPlucking(8hrs.)**
  - 3.1 Demonstrationofcorrect tippingtechnique.
  - 3.2 Identificationofidealpluckingpoints.\
  - 3.3 Pluckingskill developmentandgreenleaf handling.
4. **PruningandSkiffingOperations(6hrs.)**
  - 4.1 Tool handlingand safetydemonstration.
  - 4.2 Executionoflightskiffing,mediumprune,andrejuvenation prune.
  - 4.3 Post-pruningcare.
5. **InfillingTechniques(4 hrs.)**
  - 5.1 Identificationofgapsandpreparationofinfillpits.
  - 5.2 Replantingpractice.
  - 5.3 Taggingand monitoringofinfills.
6. **ShadeTreeManagement(4hrs.)**
  - 6.1 Identificationofshadetreespecies.
  - 6.2 Pruningand loppingof shadetrees.
  - 6.3 Pollardingmethodsandschedules.
7. **WeedIdentificationandControl(6hrs.)**
  - 7.1 Fieldidentification ofcommon weeds.
  - 7.2 Demonstrationofmanualandchemicalweedcontrol.
  - 7.3 Useofsprayers andsafetygear.

## **MODULE3:SOIL&WATERMANAGEMENTINTEA**

**Outcome:** Explain soil fertility, nutrient deficiency, manures, fertilizer, sprinkler, irrigation system, drainage

### **Theory Content:**

#### **1. Basics of Soil Fertility(2hrs.)**

- 1.1. Concept of soil fertility and its role in healthy tea bushes.
- 1.2. Characteristics of tea growing soil.
- 1.3. Brief discussion on soil physical parameters (texture, structure, BD) and chemical parameters (pH, EC, Nutrients)
- 1.4. Need of regular soil testing before manuring in tea cultivation.

#### **2. Fertilizer Application in Tea(2hrs.)**

- 2.1. Essential mineral nutrients (macro and micro-nutrients) required in tea.
- 2.2. Nutrient requirement at different growth stages for young tea and mature tea.
- 2.3. Common fertilizers used in tea cultivation.
- 2.4. Methods of fertilizer application (broadcasting, ring method, fertigation, foliar spray)

#### **3. Organic Manures and Amendments(2hrs.)**

- 3.1. Types of organic manures used in tea plantation (FYM, compost, green manure, vermicompost).
- 3.2. Purpose of various amendments used in tea plantation (Dolomite, Pyrites, Biochar, Humic Acid etc.).
- 3.3. Brief idea about the in-situ preparation techniques of organic manures and amendments.
- 3.4. Benefits of organic matter in soil health, soil rehabilitation.

#### **4. Irrigation in Tea(2hrs.)**

- 4.1. Importance of water management in tea.
- 4.2. Methods of irrigation in tea (drip, sprinkler, manual).
- 4.3. Scheduling irrigation based on plant and soil needs.
- 4.4. Need of rainwater harvesting in present climate-change scenario.

#### **5. Drainage System in Tea(2hrs.)**

- 5.1. Importance of proper drainage in tea.
- 5.2. Types of drainage systems (surface, subsurface).
- 5.3. Symptoms of poor drainage (water logging, root rot).
- 5.4. Maintenance of drainage structures

### **Practical Content:**

#### **1. Soil Sampling and Testing(4hrs.)**

- 1.1. Field demonstration on soil sample collection.
- 1.2. Lab interpretation of soil pH, organic carbon and nutrients.
- 1.3. Use of portable soil test kits.
- 1.4. Preparation of a soil health card.

2. **Fertilizer Application(4hrs.)**
  - 2.1 Demonstration of correct fertilizer application techniques (ring, broadcasting, foliar).
  - 2.2 Calculation of fertilizer dosage per plant/acre (or ha).
  - 2.3 Mixing and applying foliar sprays.
  - 2.4 Safety and hygiene during handling chemical fertilizers.
3. **Preparation and Application of Organic Manures or Amendments(4hrs.)**
  - 3.1 Composting techniques using organic biomass.
  - 3.2 Preparation of compost or vermicompost and its application.
  - 3.3 Preparation method of biochar, cow dung slurry and green manures and application.
  - 3.4 Procedure of Applying Dolomite or Pyrites for pH Management, Soil rehabilitation process in uprooted tea bushes region.
4. **Field Irrigation Scheduling and Management(4 hrs.)**
  - 4.1 Determining irrigation need based on soil moisture and bushes health.
  - 4.2 Operating sprinkler system under different soil conditions.
  - 4.3 Avoiding over- or under-irrigation.
  - 4.4 Demonstration on rainwater harvesting or groundwater recharge structures in Tea Garden.
5. **Drainage Structure Maintenance and Improvement(4 hrs.)**
  - 5.1 Inspection of existing drainage channels.
  - 5.2 Clearing blocked drains and restoring slope.
  - 5.3 Construction of simple contour bunds and trenches.
  - 5.4 Installing field drains in waterlogged patches.

## **MODULE 4: PEST AND ITS MANAGEMENT**

**Outcome:** Identify tea pests and diseases and control them

### **Theory Content:**

#### **1. Overview of Major Tea Pests (2 hrs)**

- 1.1 Sucking pests (e.g., mosquito bug, thrips, aphids, mites): identification & damage symptoms
- 1.2 Chewing pests (e.g., loopers, caterpillars): identification & damage symptoms

#### **2. Integrated Pest Management (3 hrs)**

- 2.1 Principles of IPM: decision-making process, ecological balance, action thresholds
- 2.2 Components of IPM: scouting/monitoring, record-keeping, strategy selection

#### **3. Control Methods (3 hrs):**

- 3.1 Cultural & mechanical methods: Pruning, sanitation, mulching.
- 3.2 Biological control agents: use of predators, parasitoids (e.g., Trichogramma)
- 3.3 Chemical control: pesticide selection, safe handling, PPE

#### **4. Monitoring & Record-Keeping (2 hrs):**

- 4.1 Monitoring methods: sticky traps, light traps, field scouting
- 4.2 Record keeping & thresholds: maintaining logs, interpreting action thresholds

### **Practical Content:**

1. Systematic field walks: Identify pests and capture symptoms.(2 hrs)
2. Specimen preparation: Collect and store pests for further study as voucher specimens.(2 hrs)
3. Trap Installation & Monitoring: Count pest captures and log results.(2 hrs)
4. Sprayer Calibration & Application: Calibration exercises: Calibrate knapsack sprayers accurately.(2 hrs)

5. Safe application practice: Apply chemicals and bio-controls using PPE.(2 hrs)
6. Biological Control Demonstrations (2 hrs).
7. Culturing beneficials: Raise predators/parasitoids in small natural setups.(2 hrs)
8. Field release: Observe predator-prey interactions in situ.(2 hrs)
9. Cultural Practices, Mechanical Practices & Sanitation exercises: Remove diseased leaves, prune understorey.(2hrs)
10. Mulching, uproot infected sources, record logging & threshold Decisions & Daily log maintenance: pest counts, damage notes. (2 hrs)

## Learning Outcome – Assessment Criteria

| Module No. | Outcome                                                                                                  | Assessment Criteria                                                                                                                                                                                                                                                                                                                                |
|------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1          | Identify tea plant parts, harvesting methods, propagation and nursery management techniques.             | 1.1 Identify roots, stems, leaves, buds, and describe their function<br>1.2 Demonstrate bed preparation, seed sowing, stem cutting, and budding<br>1.3 Successfully transplant seedlings and demonstrate hardening-off process<br>1.4 Clean and store tools properly, maintain disease-free nursery conditions                                     |
| 2          | Prepare land, plant tea and manage young plants                                                          | 1.5 Lay out planting grid with correct spacing and pit dimensions<br>1.6 Measure and apply recommended dosages of fertilizers/manure<br>2.1 Demonstrate weeding, mulching, pruning or shade maintenance in field<br>2.2 Complete field logs with date, activity, and results accurately                                                            |
| 3          | Explain soil fertility, nutrient deficiency, manures, fertilizer, sprinkler, irrigation system, drainage | 3.1 Use soil testing kit to record basic soil parameters<br>3.2 Create compost pits and apply material in planting beds<br>3.3 Set up drip or manual irrigation and show slope-based drainage<br>3.4 Identify and apply mulching, bunding, or pit techniques to retain water.                                                                      |
| 4          | Identify tea pests and diseases and control them                                                         | 4.1 Match symptoms to pest types and explain lifecycle where relevant<br>4.2 Mix and apply solutions with correct PPE and safe disposal<br>4.3 Identify natural enemies, traps, and use preventive cultural practices<br>4.4 Fill pest scouting sheets with date, pest level, and actions taken                                                    |
| 5          | OJT                                                                                                      | Assessor will check report prepared for this component of Practical training of the course and assess whether competency has been developed to work in the real job situation with special emphasis on basic safety and hazards in this domain. (The trainee is expected to undertake work in actual workplace under any supervisor / contractor). |
| 6          | Employability Skill                                                                                      | As per guided curriculum                                                                                                                                                                                                                                                                                                                           |



**List of Tools, Equipment and Materials needed for 30 Trainees (Practical)**

| <b>Sl. No.</b> | <b>Name of the Tool &amp; Equipment</b>   | <b>Specification</b>                                                | <b>Quantity</b>                     |
|----------------|-------------------------------------------|---------------------------------------------------------------------|-------------------------------------|
| 1.             | Spades                                    | Heavy-duty, forged iron blade with wooden handle                    | 15 nos.<br>(shared by two trainees) |
| 2.             | Hand Hoes (Kodali)                        | Carbon steel blade, wooden handle                                   | 15 nos.                             |
| 3.             | Sickles                                   | Curved blade with serrated edge, 6–8" blade length                  | 15 nos.                             |
| 4.             | Pruning Knife/Chopper                     | Hardened steel blade, 10–12"                                        | 10 nos.                             |
| 5.             | Pruning Shears (Secateurs)                | For fine pruning, up to 1.5 cm diameter cutting capacity            | 10 nos.                             |
| 6.             | Lopping Shears                            | For shade tree lopping; telescopic handles; cutting dia 1.5"        | 5 nos.                              |
| 7.             | Measuring Tapes (30 m)                    | Fiber/steel tape with hook, water-resistant                         | 6 nos.                              |
| 8.             | Line Marking Rope (50m)                   | Cotton/synthetic rope with markings at 60 cm intervals              | 6 nos.                              |
| 9.             | Watering Cans (10–15L)                    | Galvanized/plastic with fine rose head                              | 10 nos.                             |
| 10.            | Sprayers (Knapsack, 16 L)                 | HDPE tank, lever-operated, adjustable nozzle, shoulder strap        | 5 nos.                              |
| 11.            | Safety Gloves (PVC/Rubber)                | Full hand coverage; chemical-resistant                              | 30 pairs                            |
| 12.            | Mulching Material (Straw/Polythene)       | Dried grass/straw bundles or black polythene mulch rolls (1m width) | For 1 plot                          |
| 13.            | Planting Materials (Tea seedlings/clones) | Healthy polybag seedlings                                           | 50-60                               |
| 14.            | Fertilizer Samples (Urea, SSP, MOP)       | For demonstration only, properly labeled and handled                | 2 kg each                           |
| 15.            | Weedicide (Glyphosate/Paraquat)           | For demo only - stored and used under supervision                   | 1 kg each                           |
| 16.            | Buckets (Plastic, 10–15L)                 | For carrying water, weeding residues, or mulch                      | 10 nos.                             |
| 17.            | Soil auger                                | Stainless steel, hand-operated, 30–50 cm depth                      | 10 nos.                             |
| 18.            | Zip-lock Bags                             | 500 g capacity, for soil sample collection                          | 60 nos.                             |
| 19.            | Permanent Markers                         | Waterproof, for labelling                                           | 10 nos.                             |

|     |                                    |                                                       |                     |
|-----|------------------------------------|-------------------------------------------------------|---------------------|
|     |                                    | bags                                                  |                     |
| 20. | Portable Soil Test Kit             | pH, NPK, EC test with reagents on field demonstration | 5 nos.              |
| 21. | Compost unit/Vermicompost Unit     | 1.5x1x1 m brick-lined pit for demo                    | 2 nos.              |
| 22. | Surface-dwelling Earthworm species | Required for vermicompost preparation                 | As per requirements |
| 23. | Straw / Dry Leaves                 | For compost preparation                               | As per requirements |
| 24. | Sprinkler set                      | For demo of sprinkler irrigation                      | 1 no                |
| 25. | Drainage Pipes (PVC)               | For demo purpose, 100 mm dia, 6 m length              | 1 no                |
| 26. | Bioformulations                    | For demonstration                                     | 10 nos.             |
| 27. | Storage bottles for pesticide      | Labeled, for demonstration                            | 10 nos.             |
| 28. | Microscopes (simple)               | For pest morphology study                             | 5 nos.              |
| 29. | Sample pest charts/posters         | For teaching aids                                     | 5 sets              |
| 30. | PPE kits (gloves, masks, aprons)   | For safe handling during spray                        | 30 nos.             |
| 31. | Sprayers (hand/knapsack)           | For pesticide application                             | 10 nos.             |
| 32. | Petri dishes / Glass slides        | For microscopic observation                           | 100 nos.            |
| 33. | Sweep nets                         | For field collection of insects                       | 10 nos.             |
| 34. | Insect collection jars             | For live pest collection                              | 30 nos.             |
| 35. | Hand lens/Magnifying glass         | For pest identification                               | 15 nos.             |
| 36. | Aprons                             | For cleanliness and uniformity                        | 30 nos.             |
| 37. | Hand gloves                        | Safety during handling                                | 30 pairs            |
| 38. | Shade nets                         | For nursery shade structure                           | 50 m                |
| 39. | Potting media                      | (soil:sand:FYM)                                       | As required         |
| 40. | Vermicompost/Organic manure        | For potting mixture                                   | 100 kg              |
| 41. | Measuring tape                     | For nursery bed layout                                | 10 nos.             |
| 42. | Labels and markers                 | For plant tagging                                     | 200 nos.            |
| 43. | Watering cans                      | For nursery watering                                  | 10 nos.             |
| 44. | Seed trays/Germination trays       | For seed sowing practice                              | 100 nos.            |

|     |                   |                                   |          |
|-----|-------------------|-----------------------------------|----------|
| 45. | Polybags(8"x10")  | Forpottingteaseedlings            | 500 nos. |
| 46. | Buddingknives     | Forgrafting/budding demonstration | 15 nos.  |
| 47. | Pruners/Secateurs | Forcuttingstemsand branches       | 15 nos.  |

### Marks Distribution

| Outcome                                                                                              | Outcome Code  | Type       | Total Th marks | Total Pr marks | Total OJT marks |
|------------------------------------------------------------------------------------------------------|---------------|------------|----------------|----------------|-----------------|
| Identify tea plant parts, harvesting methods, propagation and nursery management techniques.         | AGR/0283/OC1  | Compulsory | 50             | 180            | 0               |
| Prepare land, plant tea and manage young plants                                                      | AGR/0283/OC2  | Compulsory | 50             | 180            | 0               |
| Explain soil fertility, nutrient deficiency, manures, fertilizer,sprinkler,irrigationsystem,drainage | AGR/0283/OC3  | Compulsory | 30             | 150            | 0               |
| Identify tea pests and diseases and control them                                                     | AGR/0283/OC4  | Compulsory | 20             | 140            | 0               |
| Work in real job situation with emphasis on basic safety and hazards                                 | AGR/0283/OC5  | Compulsory | 0              | 0              | 150             |
| Employability Skill-30 Hrs                                                                           | DGT/VSQ/N0101 | Compulsory | 50             | 0              | 0               |
| <b>Full Marks: 1000</b><br><b>Theory: 200including ES</b><br><b>Practical: 800 including OJT</b>     |               |            |                |                |                 |