

## Instruction Sheet for the Candidate

|                                  |  |
|----------------------------------|--|
| <b>Qualification</b>             | Tunnel Farming, Greenhouse & Agribusiness (Level-5)  |
| <b>Competency Standard</b>       | Install Drip Irrigation System   |
| <b>Purpose of Assessment</b>     | Formative Assessment   |
| <b>Candidate Details</b>         | Name_____<br>Registration/Roll Number_____   |
| <b>Guidance for Candidate</b>    | <p><b>To meet this standard, you are required to complete the following within time frame (for practical demonstration &amp; assessment):</b></p> <ol style="list-style-type: none"> <li>1. Prepare work plan</li> <li>2. Ensure pre-installation requirements</li> <li>3. Prepare layout for drip-Irrigation system</li> <li>4. Perform drip irrigation system installation</li> <li>5. Perform drip irrigation</li> </ol>  |
| <b>Time: 03 Hrs.</b>             | <p>During a practical assessment, under observation by an assessor, you are required to:</p> <p><b>1. Prepare work plan</b></p> <ul style="list-style-type: none"> <li>• Identify and arrange required tools for measuring environmental conditions</li> <li>• Perform calibration of instruments if required</li> <li>• Perform quality checks</li> <li>• Prepare plan for required task</li> <li>• Ensure required safety standards</li> </ul> <p><b>2. Ensure pre-installation requirements</b></p> <ul style="list-style-type: none"> <li>• Identify the conditions of selected area (topography, climate and soil)</li> <li>• Identify and arrange required tools and equipment</li> <li>• Ensure availability of required material for drip irrigation system installation</li> <li>• Maintain Records</li> <li>• Ensure required safety standards</li> </ul> <p><b>3. Prepare layout for drip-Irrigation system</b></p> <ul style="list-style-type: none"> <li>• Identify and arrange required tools and equipment</li> <li>• Draw proper design for selected irrigation method</li> <li>• Maintain records</li> <li>• Ensure required safety standards</li> </ul> <p><b>4. Perform drip irrigation system installation</b></p> <ul style="list-style-type: none"> <li>• Identify and arrange required tools and equipment for drip irrigation</li> </ul> |
| <b>Minimum Evidence Required</b> |  |

|  |  |
|--|--|
|  | <p>system installation</p> <ul style="list-style-type: none"> <li>• Perform installation as per planned layout design</li> <li>• Ensure PPEs.</li> </ul> <p><b>5. Perform drip irrigation</b></p> <ul style="list-style-type: none"> <li>• Apply irrigation as per standard</li> <li>• Maintain records</li> <li>• Ensure health and safety standards</li> </ul> |
|--|--|

## Self-Assessment Checklist

|                              |   |
|------------------------------|---|
| <b>Candidate Name</b>        |   |
| <b>Registration No.</b>      |   |
| <b>Qualification</b>         | Tunnel Farming, Greenhouse & Agribusiness (Level-5)   |
| <b>Competency Standard</b>   | Install Drip Irrigation System  |
| <b>Purpose of Assessment</b> | Formative Assessment  |
| <b>Assessment Task</b>       | <ol style="list-style-type: none"> <li>1. Prepare work plan</li> <li>2. Ensure pre-installation requirements</li> <li>3. Prepare layout for drip-Irrigation system</li> <li>4. Perform drip irrigation system installation</li> <li>5. Perform drip irrigation</li> </ol> |

I can.....

| <b>Performance Criteria</b>   | <b>Yes</b>               | <b>No</b>                |
|---|--------------------------|--------------------------|
| 1. Identify and arrange required tools for measuring environmental conditions       | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Perform calibration of instruments if required                                   | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Perform quality checks   | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Prepare plan for required task   | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Ensure required safety standards   | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Identify the conditions of selected area (topography, climate and soil)          | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Identify and arrange required tools and equipment                                | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Ensure availability of required material for drip irrigation system installation | <input type="checkbox"/> | <input type="checkbox"/> |

|   |                          |                          |
|---|--------------------------|--------------------------|
| 9. Maintain Records   | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Ensure required safety standards  | <input type="checkbox"/> | <input type="checkbox"/> |
| 11. Identify and arrange required tools and equipment   | <input type="checkbox"/> | <input type="checkbox"/> |
| 12. Draw proper design for selected irrigation method   | <input type="checkbox"/> | <input type="checkbox"/> |
| 13. Maintain records  | <input type="checkbox"/> | <input type="checkbox"/> |
| 14. Ensure required safety standards  | <input type="checkbox"/> | <input type="checkbox"/> |
| 15. Identify and arrange required tools and equipment for drip irrigation system installation | <input type="checkbox"/> | <input type="checkbox"/> |
| 16. Perform installation as per planned layout design   | <input type="checkbox"/> | <input type="checkbox"/> |
| 17. Ensure PPEs.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 18. Apply irrigation as per standard  | <input type="checkbox"/> | <input type="checkbox"/> |
| 19. Maintain records  | <input type="checkbox"/> | <input type="checkbox"/> |
| 20. Ensure health and safety standards  | <input type="checkbox"/> | <input type="checkbox"/> |

Candidate's Signature\_\_\_\_\_ Assessor's Signature\_\_\_\_\_

Date: \_\_\_\_\_

## Assessors Judgment Guide

|                              |   |
|------------------------------|---|
| <b>Qualification</b>         | Tunnel Farming, Greenhouse & Agribusiness (Level-5)   |
| <b>Competency Standard</b>   | Install Drip Irrigation System  |
| <b>Purpose of Assessment</b> | Formative Assessment  |
| <b>Candidate Details</b>     | Name: _____<br>Registration/Roll Number: _____ Signature: _____   |
| <b>Assessment Outcome</b>    | COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/><br>Name of the Assessor _____<br>Assessor's code: _____<br>Signature: _____ |

| Assessment Summary (to be filled by the assessor) |         |      |             |           |           |           |                   |
|---|---------|------|-------------|-----------|-----------|-----------|-------------------|
| Activity  | Method  |      |             |           |           | Result    |                   |
| Nature of Activity                                | Written | Oral | Observation | Portfolio | Role Play | Competent | Not Yet Competent |
| Practical Skill Demonstration                     |         |      | ✓           |           |           |           |                   |
| Knowledge Assessment                              |         | ✓    |             |           |           |           |                   |
| Other Requirement                                 |         |      |             |           |           |           |                   |

## Observation Checklist

|   |   |                          |                          |                |
|---|---|--------------------------|--------------------------|----------------|
| <b>Assessment Task</b>  | 1. Prepare work plan<br>2. Ensure pre-installation requirements<br>3. Prepare layout for drip-Irrigation system<br>4. Perform drip irrigation system installation<br>5. Perform drip irrigation |                          |                          |                |
| <b>During the practical assessment, candidate demonstrated the following:</b> |   | <b>Yes</b>               | <b>No</b>                | <b>Remarks</b> |
| 1.  | Identify and arrange required tools for measuring environmental conditions  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 2.  | Perform calibration of instruments if required  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 3.  | Perform quality checks  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 4.  | Prepare plan for required task  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 5.  | Ensure required safety standards  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 6.  | Identify the conditions of selected area (topography, climate and soil)   | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 7.  | Identify and arrange required tools and equipment   | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 8.  | Ensure availability of required material for drip irrigation system installation  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 9.  | Maintain Records  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 10.   | Ensure required safety standards  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 11.   | Identify and arrange required tools and equipment   | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 12.   | Draw proper design for selected irrigation method   | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 13.   | Maintain records  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 14.   | Ensure required safety standards  | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 15.   | Identify and arrange required tools and equipment for drip irrigation system installation   | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 16.   | Perform installation as per planned layout design   | <input type="checkbox"/> | <input type="checkbox"/> |                |
| 17.   | Ensure PPEs.  | <input type="checkbox"/> | <input type="checkbox"/> |                |

|   |                                    |   |                          |  |
|---|------------------------------------|---|--------------------------|--|
| 18.                                       | Apply irrigation as per standard   | <input type="checkbox"/>                          | <input type="checkbox"/> |  |
| 19.                                       | Maintain records                   | <input type="checkbox"/>                          | <input type="checkbox"/> |  |
| 20.                                       | Ensure health and safety standards | <input type="checkbox"/>                          | <input type="checkbox"/> |  |
| <b>Competent</b> <input type="checkbox"/> |                                    | <b>Not Yet Competent</b> <input type="checkbox"/> |                          |  |

## Knowledge Assessment

|                              |   |
|------------------------------|---|
| <b>Qualification</b>         | Tunnel Farming, Greenhouse & Agribusiness (Level-5)   |
| <b>Competency Standard</b>   | Install Drip Irrigation System  |
| <b>Purpose of Assessment</b> | Formative Assessment  |
| <b>Candidate Details</b>     | Name: _____<br>Registration/Roll Number: _____ Candidate Signature: _____   |
| <b>Assessment Outcome</b>    | <div style="display: flex; justify-content: space-around; align-items: center;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YET COMPETENT</b> <input type="checkbox"/></span> </div> Name of the Assessor: _____<br>Assessor's code: _____<br>Signature of the Assessor: _____ |

Candidate's response is not required to be identical, but similar concepts and/or keywords must be used. Oral questioning may be used to clarify candidate understanding of topic and its application.

| <b>Questions</b> (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application) |                                   | <b>Satisfactory</b> | <b>Not Satisfactory</b> |
|--|-----------------------------------|---------------------|-------------------------|
| 1.   | What are different water sources? |                     |                         |

|    |  |  |  |
|----|--|--|--|
|    |  |  |  |
| 2. | What is sowing plan as per irrigation layout ? |  |  |
|    |  |  |  |
| 3. | What are different irrigation layouts?         |  |  |
|    |  |  |  |
| 4. | What are survey techniques for cost analysis?  |  |  |
|    |  |  |  |
| 5. | Discuss required safety standards?             |  |  |
|    |  |  |  |
|    |  |  |  |

| Feedback to the Candidate |
|---------------------------|
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|                           |
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| <b>Candidate's Signature</b> _____ <b>Assessor's Signature</b> _____ |