

## Instruction Sheet for the Candidate

|                                  |   |
|----------------------------------|---|
| <b>Qualification</b>             | Tunnel Farming, Greenhouse & Agribusiness(Level-5)  |
| <b>Competency Standard</b>       | <ol style="list-style-type: none"> <li>1. Select and procure material required for poly-tunnel</li> <li>2. Install low tunnel</li> <li>3. Install walk-in tunnel</li> <li>4. Install high tunnel</li> <li>5. Perform Mulching</li> <li>6. Maintain poly-tunnel structure</li> </ol>   |
| <b>Purpose of Assessment</b>     | Summative 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. Perform fitting and construction of poly tunnel structures and their maintenance</li> </ol>   |
| <b>Time: 04 Hrs.</b>             | <p>During a practical assessment, under observation by an assessor, you are required to :</p> <ul style="list-style-type: none"> <li>• Ensure Procurement of structure material.</li> <li>• Perform iron rods (Sarya) turning and fitting on ground surface for low tunnels.</li> <li>• Perform shaping and turning of galvanized pipes for medium and high tunnels.</li> <li>• Perform earth civil work for grouting of basal anchors.</li> <li>• Develop wire stretchers and adjusting as per tunnel length.</li> <li>• Adjust sheet lock jaws for polythene adjustment.</li> <li>• Erect/ Install structures and connecting arches.</li> <li>• Spread plastic polythene and anti-insect sheets.</li> <li>• Perform black polythene mulching and sheet punching.</li> <li>• Install hanging wires and crop nets.</li> </ul> |
| <b>Minimum Evidence Required</b> |   |

## Self-Assessment Checklist

|                              |   |
|------------------------------|---|
| <b>Candidate Name</b>        |   |
| <b>Registration No.</b>      |   |
| <b>Qualification</b>         | Tunnel Farming, Greenhouse & Agribusiness(Level-5)  |
| <b>Competency Standard</b>   | <ol style="list-style-type: none"> <li>1. Select and procure material required for poly-tunnel</li> <li>2. Install low tunnel</li> <li>3. Install walk-in tunnel</li> <li>4. Install high tunnel</li> <li>5. Perform Mulching</li> <li>6. Maintain poly-tunnel structure</li> </ol> |
| <b>Purpose of Assessment</b> | Summative Assessment  |
| <b>Assessment Task</b>       | <ol style="list-style-type: none"> <li>1. Perform fitting and construction of poly tunnel structures and their maintenance</li> </ol>   |

I can.....

| <b>Performance Criteria</b>   | <b>Yes</b>               | <b>No</b>                |
|---|--------------------------|--------------------------|
| 1. Ensure Procurement of structure material.  | <input type="checkbox"/> | <input type="checkbox"/> |
| 2. Perform iron rods (Sarya) turning and fitting on ground surface for low tunnels. | <input type="checkbox"/> | <input type="checkbox"/> |
| 3. Perform shaping and turning of galvanized pipes for medium and high tunnels.     | <input type="checkbox"/> | <input type="checkbox"/> |
| 4. Perform earth civil work for grouting of basal anchors.                          | <input type="checkbox"/> | <input type="checkbox"/> |
| 5. Develop wire stretchers and adjusting as per tunnel length.                      | <input type="checkbox"/> | <input type="checkbox"/> |
| 6. Adjust sheet lock jaws for polythene adjustment.                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 7. Erect/ Install structures and connecting arches.                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 8. Spread plastic polythene and anti-insect sheets.                                 | <input type="checkbox"/> | <input type="checkbox"/> |
| 9. Perform black polythene mulching and sheet punching.                             | <input type="checkbox"/> | <input type="checkbox"/> |
| 10. Install hanging wires and crop nets.  | <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>   | 1. Select and procure material required for poly-tunnel<br>2. Install low tunnel<br>3. Install walk-in tunnel<br>4. Install high tunnel<br>5. Perform Mulching<br>6. Maintain poly-tunnel structure   |
| <b>Purpose of Assessment</b> | Summative Assessment  |
| <b>Candidate Details</b>     | Name: _____<br>Registration/Roll Number: _____ Signature: _____   |
| <b>Assessment Outcome</b>    | <div style="display: flex; justify-content: space-between;"> <span><b>COMPETENT</b> <input type="checkbox"/></span> <span><b>NOT YETCOMPETENT</b> <input type="checkbox"/></span> </div> 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. Perform fitting and construction of poly tunnel structures and their maintenance |  |                          |                |
| <b>During the practical assessment, candidate demonstrated the following:</b> |   | <b>Yes</b>                                 | <b>No</b>                | <b>Remarks</b> |
| 1.  | Ensure Procurement of structure material.   | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 2.  | Perform iron rods (Sarya) turning and fitting on ground surface for low tunnels.    | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 3.  | Perform shaping and turning of galvanized pipes for medium and high tunnels.        | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 4.  | Perform earth civil work for grouting of basal anchors.                             | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 5.  | Develop wire stretchers and adjusting as per tunnel length.                         | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 6.  | Adjust sheet lock jaws for polythene adjustment.                                    | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 7.  | Erect/ Install structures and connecting arches.                                    | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 8.  | Spread plastic polythene and anti-insect sheets.                                    | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 9.  | Perform black polythene mulching and sheet punching.                                | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| 10.   | Install hanging wires and crop nets.  | <input type="checkbox"/>                   | <input type="checkbox"/> |                |
| Competent <input type="checkbox"/>  |   | Not Yet Competent <input type="checkbox"/> |                          |                |

## Knowledge Assessment

|                              |   |
|------------------------------|---|
| <b>Qualification</b>         | Tunnel Farming, Greenhouse & Agribusiness(Level-5)  |
| <b>Competency Standard</b>   | 1. Select and procure material required for poly-tunnel<br>2. Install low tunnel<br>3. Install walk-in tunnel<br>4. Install high tunnel<br>5. Perform Mulching<br>1. Maintain poly-tunnel structure   |
| <b>Purpose of Assessment</b> | Summative 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.

| Questions (Candidate confidently answered questions correctly and demonstrated understanding of the topics and their application) |   | Satisfactory | Not Satisfactory |
|---|---|--------------|------------------|
| 1.  | What are different materials required for construction of poly-tunnel, their specifications and uses? |              |                  |
|   |   |              |                  |
| 2.  | What are different materials used for installation of irrigation and ventilation systems?             |              |                  |

|    |   |  |  |
|----|---|--|--|
|    |   |  |  |
| 3. | Differentiate between weather and climate ?               |  |  |
|    |   |  |  |
| 4. | Enlist crops grown in poly tunnel?                        |  |  |
|    |   |  |  |
| 5. | What are different types of poly-tunnel?                  |  |  |
|    |   |  |  |
|    |   |  |  |
| 6. | What are general requirements of low tunnel installation? |  |  |
|    |   |  |  |
|    |   |  |  |
| 7. | What is the risk involved in installation of low tunnel?  |  |  |
|    |   |  |  |
|    |   |  |  |

|     |  |  |  |
|-----|--|--|--|
| 8.  | Which hygienic conditions are required for work place?         |  |  |
|     |  |  |  |
|     |  |  |  |
| 9.  | What is the durability of low tunnel?                          |  |  |
|     |  |  |  |
|     |  |  |  |
| 10. | What are standard procedures for installation of low-tunnel?   |  |  |
|     |  |  |  |
|     |  |  |  |
| 11. | What are safety measures required to start work?               |  |  |
|     |  |  |  |
|     |  |  |  |
| 12. | What are the risks involved in installation of walk-in tunnel? |  |  |
|     |  |  |  |
|     |  |  |  |
|     |  |  |  |

|     |  |  |  |
|-----|--|--|--|
| 14. | What is the durability of walk-in tunnel?                        |  |  |
|     |  |  |  |
|     |  |  |  |
| 15. | What are standard procedures for installation of walk-in tunnel? |  |  |
|     |  |  |  |
|     |  |  |  |
| 16. | How work can be initiated with safety measures?                  |  |  |
|     |  |  |  |
|     |  |  |  |
| 17. | What are specific prerequisites of poly-tunnel construction?     |  |  |
|     |  |  |  |
|     |  |  |  |
|     |  |  |  |
| 18. | What is the durability of high tunnel structure?                 |  |  |
|     |  |  |  |
|     |  |  |  |



|     |   |  |  |
|-----|---|--|--|
| 20. | What are standard procedures for installation of poly tunnel?     |  |  |
|     |   |  |  |
|     |   |  |  |
| 21. | How work can be initiated with safety measures?                   |  |  |
|     |   |  |  |
|     |   |  |  |
| 22. | What are general requirements of poly-tunnel construction?        |  |  |
|     |   |  |  |
|     |   |  |  |
| 24. | Discuss proper aeration and proper direction of tunnel in detail? |  |  |
|     |   |  |  |
|     |   |  |  |
| 25. | What are standard procedures for installation of poly tunnel?     |  |  |
|     |   |  |  |
|     |   |  |  |
| 26. | What are the factors involved in poly-tunnel damage?              |  |  |

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