

## Instruction Sheet for the Candidate

<b>Qualification</b>	Tunnel Farming, Greenhouse & Agribusiness(Level-5)
<b>Competency Standard</b>	Operate equipment machinery used in off season vegetable production
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name_____
	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 tillage operation using different implements</li> <li>2. Operate farm machinery</li> <li>3. Identify and operate equipment used for IPM and nutrition management</li> <li>4. Perform operations using land and media preparation implements</li> <li>5. Operate management and maintenance tools</li> <li>6. Identify process of harvesting tools</li> <li>7. Maintain health and safety at workplace</li> </ol>
<b>Time: 02 Hrs.</b>	<p>During a practical assessment, under observation by an assessor, you are required to :</p> <ol style="list-style-type: none"> <li><b>1. Perform tillage operation using different implements</b> <ul style="list-style-type: none"> <li>• Identify and arrange tools for required task</li> <li>• Perform operation of chisel plough according to SOP</li> <li>• Identify standard operation of disc plough</li> <li>• Perform process of bar harrow according to SOP</li> <li>• Identify standard process of Rotavator</li> <li>• Adhere to required safety standards</li> </ul> </li> <li><b>2. Operate farm machinery</b> <ul style="list-style-type: none"> <li>• Identify standard working of tractor engine</li> <li>• Identify process involved in different power tools</li> <li>• Perform different operation using tractor (ploughing, planking, spraying etc.)</li> <li>• Ensure health and safety standards</li> </ul> </li> <li><b>3. Identify and operate equipment used for IPM and nutrition management</b> <ul style="list-style-type: none"> <li>• Identify equipment used for integrated pest</li> </ul> </li> </ol>
<b>Minimum Evidence Required</b>	

	<p>management</p> <ul style="list-style-type: none"> <li>• Identify equipment used for nutrition management</li> <li>• Operate insect pest management equipment according to defined method</li> <li>• Operate nutrition management equipment according to defined method</li> <li>• Ensure required health and safety standards</li> </ul> <p><b>4. Perform operations using land and media preparation implements</b></p> <ul style="list-style-type: none"> <li>• Identify implements involved in land preparation</li> <li>• Identify implements involved in media preparation</li> <li>• Perform standard operation through Laser Land Leveler</li> <li>• Operate Bed shaper/Ridger as per standard method</li> <li>• Perform standard operation through media preparatory equipment</li> <li>• Ensure health and safety standards</li> </ul> <p><b>5. Operate management and maintenance tools</b></p> <ul style="list-style-type: none"> <li>• Identify management and maintenance tools for off season vegetables</li> <li>• Operate management and maintenance tools as per standard method</li> <li>• Ensure health and safety standards</li> </ul> <p><b>6. Identify process of harvesting tools</b></p> <ul style="list-style-type: none"> <li>• Identify harvesting tools</li> <li>• Operate harvesting tools</li> <li>• Ensure health and safety standards</li> </ul> <p><b>7. Maintain health and safety at workplace</b></p> <ul style="list-style-type: none"> <li>• Operate management and maintenance tools as per standard method</li> <li>• Ensure health and safety standards</li> </ul>
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## Self-Assessment Checklist

<b>Candidate Name</b>	
<b>Registration No.</b>	
<b>Qualification</b>	Tunnel Farming, Greenhouse & Agribusiness (Level-5)
<b>Competency Standard</b>	Operate equipment machinery used in off season vegetable production
<b>Purpose of Assessment</b>	Formative Assessment

<b>Assessment Task</b>	<ol style="list-style-type: none"> <li>1. Perform tillage operation using different implements</li> <li>2. Operate farm machinery</li> <li>3. Identify and operate equipment used for IPM and nutrition management</li> <li>4. Perform operations using land and media preparation implements</li> <li>5. Operate management and maintenance tools</li> <li>6. Identify process of harvesting tools</li> <li>7. Maintain health and safety at workplace</li> </ol>
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I can.....

<b>Performance Criteria</b>	<b>Yes</b>	<b>No</b>
1. Identify and arrange tools for required task	<input type="checkbox"/>	<input type="checkbox"/>
2. Perform operation of chisel plough according to SOP	<input type="checkbox"/>	<input type="checkbox"/>
3. Identify standard operation of disc plough	<input type="checkbox"/>	<input type="checkbox"/>
4. Perform process of bar harrow according to SOP	<input type="checkbox"/>	<input type="checkbox"/>
5. Identify standard process of Rotavator	<input type="checkbox"/>	<input type="checkbox"/>
6. Adhere to required safety standards	<input type="checkbox"/>	<input type="checkbox"/>
7. Identify standard working of tractor engine	<input type="checkbox"/>	<input type="checkbox"/>
8. Identify process involved in different power tools	<input type="checkbox"/>	<input type="checkbox"/>
9. Perform different operation using tractor (ploughing, planking, spraying etc.)	<input type="checkbox"/>	<input type="checkbox"/>
10. Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>
11. Identify equipment used for integrated pest management	<input type="checkbox"/>	<input type="checkbox"/>
12. Identify equipment used for nutrition management	<input type="checkbox"/>	<input type="checkbox"/>
13. Operate insect pest management equipment according to defined method	<input type="checkbox"/>	<input type="checkbox"/>
14. Operate nutrition management equipment according to defined method	<input type="checkbox"/>	<input type="checkbox"/>
15. Ensure required health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>
16. Identify implements involved in land preparation	<input type="checkbox"/>	<input type="checkbox"/>
17. Identify implements involved in media preparation	<input type="checkbox"/>	<input type="checkbox"/>
18. Perform standard operation through Laser Land Leveler	<input type="checkbox"/>	<input type="checkbox"/>
19. Operate Bed shaper/Ridger as per standard method	<input type="checkbox"/>	<input type="checkbox"/>
20. Perform standard operation through media preparatory equipment	<input type="checkbox"/>	<input type="checkbox"/>

21. Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>
22. Identify management and maintenance tools for off season vegetables	<input type="checkbox"/>	<input type="checkbox"/>
23. Operate management and maintenance tools as per standard method	<input type="checkbox"/>	<input type="checkbox"/>
24. Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>
25. Identify harvesting tools	<input type="checkbox"/>	<input type="checkbox"/>
26. Operate harvesting tools	<input type="checkbox"/>	<input type="checkbox"/>
27. Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>
28. Operate management and maintenance tools as per standard method	<input type="checkbox"/>	<input type="checkbox"/>
29. 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>	Operate equipment machinery used in off season vegetable production
<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Signature: _____
<b>Assessment Outcome</b>	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ 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>		<ol style="list-style-type: none"> <li>1. Perform tillage operation using different implements</li> <li>2. Operate farm machinery</li> <li>3. Identify and operate equipment used for IPM and nutrition management</li> <li>4. Perform operations using land and media preparation implements</li> <li>5. Operate management and maintenance tools</li> <li>6. Identify process of harvesting tools</li> <li>7. Maintain health and safety at workplace</li> </ol>		
<b>During the practical assessment, candidate demonstrated the following:</b>		<b>Yes</b>	<b>No</b>	<b>Remarks</b>
1.	Identify and arrange tools for required task	<input type="checkbox"/>	<input type="checkbox"/>	
2.	Perform operation of chisel plough according to SOP	<input type="checkbox"/>	<input type="checkbox"/>	
3.	Identify standard operation of disc plough	<input type="checkbox"/>	<input type="checkbox"/>	
4.	Perform process of bar harrow according to SOP	<input type="checkbox"/>	<input type="checkbox"/>	
5.	Identify standard process of Rotavator	<input type="checkbox"/>	<input type="checkbox"/>	
6.	Adhere to required safety standards	<input type="checkbox"/>	<input type="checkbox"/>	
7.	Identify standard working of tractor engine	<input type="checkbox"/>	<input type="checkbox"/>	
8.	Identify process involved in different power tools	<input type="checkbox"/>	<input type="checkbox"/>	
9.	Perform different operation using tractor (ploughing, planking, spraying etc.)	<input type="checkbox"/>	<input type="checkbox"/>	
10.	Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>	
11.	Identify equipment used for integrated pest management	<input type="checkbox"/>	<input type="checkbox"/>	
12.	Identify equipment used for nutrition management	<input type="checkbox"/>	<input type="checkbox"/>	
13.	Operate insect pest management equipment according to defined method	<input type="checkbox"/>	<input type="checkbox"/>	
14.	Operate nutrition management equipment according to defined method	<input type="checkbox"/>	<input type="checkbox"/>	

15.	Ensure required health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>	
16.	Identify implements involved in land preparation	<input type="checkbox"/>	<input type="checkbox"/>	
17.	Identify implements involved in media preparation	<input type="checkbox"/>	<input type="checkbox"/>	
18.	Perform standard operation through Laser Land Leveler	<input type="checkbox"/>	<input type="checkbox"/>	
19.	Operate Bed shaper/Ridger as per standard method	<input type="checkbox"/>	<input type="checkbox"/>	
20.	Perform standard operation through media preparatory equipment	<input type="checkbox"/>	<input type="checkbox"/>	
21.	Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>	
22.	Identify management and maintenance tools for off season vegetables	<input type="checkbox"/>	<input type="checkbox"/>	
23.	Operate management and maintenance tools as per standard method	<input type="checkbox"/>	<input type="checkbox"/>	
24.	Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>	
25.	Identify harvesting tools	<input type="checkbox"/>	<input type="checkbox"/>	
26.	Operate harvesting tools	<input type="checkbox"/>	<input type="checkbox"/>	
27.	Ensure health and safety standards	<input type="checkbox"/>	<input type="checkbox"/>	
28.	Operate management and maintenance tools as per standard method	<input type="checkbox"/>	<input type="checkbox"/>	
29.	Ensure health and safety standards	<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>	Operate equipment machinery used in off season vegetable production

<b>Purpose of Assessment</b>	Formative Assessment
<b>Candidate Details</b>	Name: _____ Registration/Roll Number: _____ Candidate Signature: _____
<b>Assessment Outcome</b>	<div> <div>COMPETENT <input type="checkbox"/></div> <div>NOT YET COMPETENT <input type="checkbox"/></div> </div> Name of the Assessor: _____ Assessor's code: _____ 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.	Enlist the implements used for tillage?		
2.	Describe the working of tractor?		
3.	Define IPM?		
4.	Enlist the harvesting tools? How they work?		



5.	Enlist the management and maintenance tools for off-season vegetable production?		
	Define nutrition management?		

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