



CENTRAL WAREHOUSING CORPORATION  
केंद्रीय भंडारण निगम  
A GOVERNMENT OF INDIA UNDERTAKING

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# WAREHOUSE MANAGEMENT SOLUTION

## Moisture Meter Integration

(User Manual)

## Contents

<b>1. Registration &amp; Mapping</b> .....	3
<b>AT WAREHOUSE LEVEL</b> .....	3
<b>AT RO HOD TECHNICAL</b> .....	4
<b>2. Integration on different quality screens</b> .....	6
<b>a. Receipt (General or Reservation basis)</b> .....	7
<b>b. Receipt of stock(CMR)</b> .....	8
<b>c. Issue of stock (Receipt of General/ Reservation/CMR basis)</b> .....	10
<b>d. Fortnightly Inspection</b> .....	11
<b>e. Technical Inspection</b> .....	13
<b>f. General Inspection</b> .....	15

## Moisture Meter Integration

The CWC-WMS is integrated with digital moisture meters to eliminate human inputs and fetch the moisture data directly through the digital moisture meters available at the warehouse premises. This provision intends to reduce human errors that may affect the result in losses to the organization.

With this integration, the manual punching of the moisture content will be eliminated and replaced by auto-capturing of the same at all modules carrying the receipt function resulting in the possible human error elimination and authentication/verification of the declared moisture.

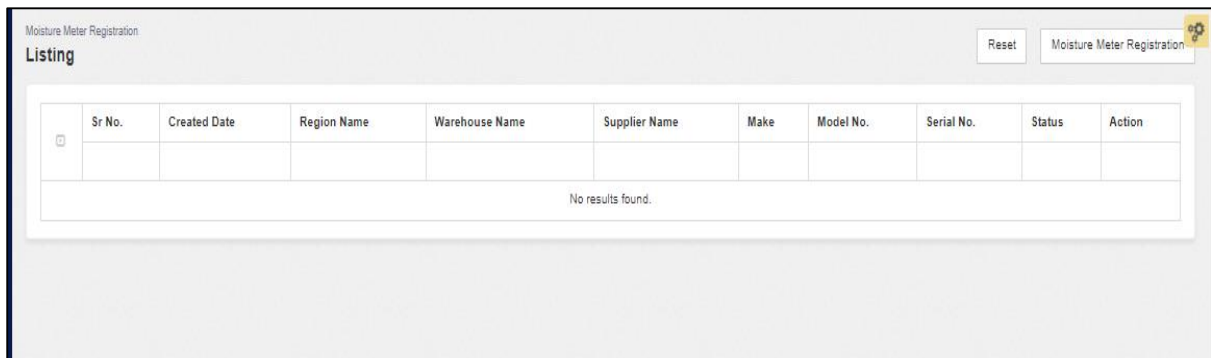
To integrate the moisture meter with WMS, the following steps are followed:

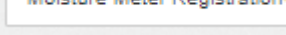
The supplier list consisting the details like supplier name, email, phone number, address will be configured at the backend. Once done, the further steps are as follows:

### 1. Registration & Mapping

#### AT WAREHOUSE LEVEL

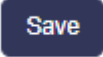


- ❖ The warehouse manager can register the moisture meters present at their warehouse premises on “Moisture Meter Registration” screen.
- ❖ To do the same, the user will click on “Warehouse Management” menu and then click on the “Moisture Meter Registration” option from there.
- ❖ Once done, the user will be redirected to the following screen:



- ❖ Here, the user will click on the  button.
- ❖ After clicking, the following screen will appear:

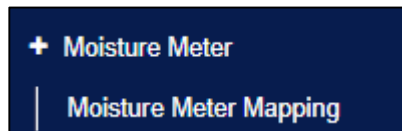
- ❖ The user will choose the supplier name (Manufactured by) from the dropdown and then accordingly shall enter the following fields:
  - Serial no.\*
  - Make no.\*
  - Model no.\*
  - Status\*(Active/Inactive)

*In case the Moisture Meter is faulty or not in working state, then the user can select the status as “INACTIVE” so that the same will not appear in the supplier list dropdown on the pop-up screen.*

- ❖ Once done, the user will click on the  button.
- ❖ The user can also take the following actions on the given screen:
  - **Cancel:** The user can also click on the  button to abort the process of registration.
  - **Back:** The user can also click on the  button to go back to the previous listing screen.

### AT RO HOD TECHNICAL

- ❖ Once the user at warehouse level will register the Moisture Meter in their warehouses, then the user at RO level will map the warehouse with the Moisture Meter.
- ❖ To do so, the user will click on the “Moisture Meter Mapping” option from the “Moisture Meter” menu.



- ❖ By clicking on the same, the user will be redirected to the following screen:

**Warehouse Mapping**

Select Warehouse:

Select Quality Operations:

#	Module Name	Is MM Integrated?	Is Editable?

- ❖ The user will select the warehouse from the “select warehouse” dropdown.
- ❖ After selecting the warehouse, the user will choose the quality operations/modules from the “Select Quality Operations” dropdown at which the user wants to enable the Integration.
- ❖ The user can choose a single module or multiple modules for Integration.

Select Quality Operations

Receipt of stock => Reservation & General booking (Truck wis... , Receipt of

- Receipt of stock => Reservation & General booking (Truck wis... ✓
- Receipt of stock => CMR (Lot wise) => Quality examination sc... ✓
- Issue of stock => Reservation & general basis=> Quality chec... ✓
- Preservation=> Fortnightly inspection... ✓

- ❖ Once done the modules shall be visible in the listing table as shown below:

**Warehouse Mapping**

Select Warehouse


pwhouse1 ▼

Select Quality Operations

Receipt of stock => CMR (Lot wise) => Quality examination sc... , Issue of sto

#	Module Name	Is MM Integrated?	Is Editable?
1	Receipt of stock => CMR (Lot wise) => Quality examination screen	<input type="checkbox"/>	<input type="checkbox"/>
2	Issue of stock => Reservation & general basis=> Quality check screen	<input type="checkbox"/>	<input type="checkbox"/>
3	Preservation=> Fortnightly inspection	<input type="checkbox"/>	<input type="checkbox"/>

Map

- ❖ The user can enable or disable the Integration of the chosen modules by clicking on the toggle button given against each module.
- ❖ This Integration will enable capture button at the quality screen of the selected module.
- ❖ Once done the user will click on the  button to map the warehouses.

**Note:**

- Here, only the registered warehouses will bind in the dropdown of “select warehouse”.
- Only one warehouse can be mapped at a time.
- In case manual intervention is required then the user can make the Moisture field editable on the quality screen of the selected module by clicking on the toggle button of the “Is Editable” column.

## 2. Integration on different quality screens

1. Receipt (General or Reservation basis)
2. Issue (General or Reservation basis /CMR)
3. Fortnightly Inspection
4. General Inspection
5. Technical Inspection
6. Rail Head/Rail siding(dependency on the Go-Live of the module)

## a. Receipt (General or Reservation basis)

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 A Unit of Food Corporation of India

ng with in two months. [Renew](#) | Please renew your warehouse license, your warehouse license is expiring soon. [Renew](#) | Your 2 chemicals are abo | ASSETB

1 Gate In Pass | 2 Weighment In | **4 Quality Examination** | 5 Slacking | 6 Weighment Out | 7 Gate out Pass

Receipt Of Stock  
**Reservation Basis / Quality Examination** | Quality History

Token No.  
 0601231test989787/0010 | [Search](#)

Depositor Name: DHIMANAARIC | Commodity Group: FOOD GRAIN | Commodity Variety: Moong Dal | Commodity Name: MOONG (BROKEN / WHOLE)

Quality Type: MINISTERIAL | Quality: FAQ | Date: 16-01-2023 | Crop Year:

[CSP DOC](#) | [Assaying & Grades Doc](#)

Report For Food Grain Table

S.No	Refraction (%)	Max (%)	Actual(%)
1	Moisture (%) *	9.00	<input type="text"/> <a href="#">Capture</a>
2	Grade	FAIL	<input type="text"/>
3	Category	A	<input type="text"/>
4	Infestation	Clear	<input type="text"/>

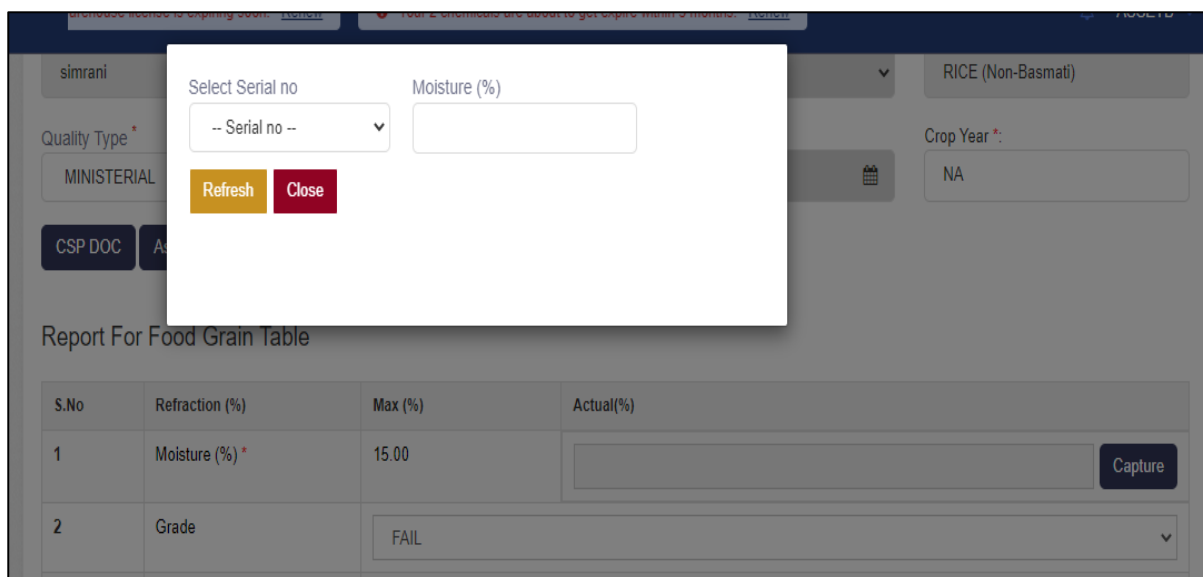
Fumigation: NO

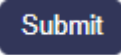
Is Sample Required? (If Food Grain):  Yes  No | Condition of Goods: Good |  ACCEPT  REJECT

Remarks:

[Submit](#)

❖ The user will click on the [Capture](#) button and a pop screen will open as shown below:



- ❖ The user will select the serial no. of the Moisture Meter from the dropdown.
- ❖ Once done, the moisture will be auto captured in the Moisture% field.
- ❖ The user can click on the close button. The same Moisture will be auto-populated in the Moisture % field on the quality screen.
- ❖ After capturing the “moisture” the user can click on the  button to proceed further.

### b. Receipt of stock(CMR)

- ❖ The moisture in this module shall be captured lot-wise on the quality screen as follows:



Central Warehousing Corporation  
 10 with in two months. [Back](#) Please renew your warehouse license, your warehouse license is expiring soon. [Back](#) Your 2 chemicals are an [ASSETB](#)

1 Quantity 2 Quality 3 Stacking

Receipt Of Stock  
**Com / Quality**

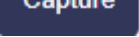

Lot No.  Date  Depositor Name  Miller Name   
 Commodity  Variety  Bags / Units  LWB Net Weight (Glt.)   
 Crop year

Report For Food Grain Table

S.No	Refraction (%)	Max (%)	Actual(%)
1	Total Broken(%) *	25.00	<input type="text"/>
2	Chalky(%) *	5.00	<input type="text"/>
3	Damaged / Slightly Grain(%) *	3.00	<input type="text"/>
4	Discoloured Grain(%) *	3.00	<input type="text"/>
5	Bran Formation(%) *	0.50	<input type="text"/>
6	Admixture(%) *	6.00	<input type="text"/>
7	Dehusked(%) *	13.00	<input type="text"/>
8	Small Broken(%) *	1.00	<input type="text"/>
9	Big Broken(%) *	25.00	<input type="text"/>
10	Inorganic Foreign Matter(%) *	0.25	<input type="text"/>
11	Organic Foreign Matter(%) *	0.50	<input type="text"/>
12	Total Broken(%) *	2.00	<input type="text"/>
13	Chalky(%) *	2.00	<input type="text"/>
14	Damaged / Slightly Grain(%) *	2.00	<input type="text"/>
15	Discoloured Grain(%) *	2.00	<input type="text"/>
16	Admixture(%) *	2.00	<input type="text"/>
17	Dehusked(%) *	2.00	<input type="text"/>
18	Small Broken(%) *	2.00	<input type="text"/>
19	Big Broken(%) *	2.00	<input type="text"/>
20	Weeviled(%) *	2.00	<input type="text"/>
21	Shrivelled & Broekn(%) *	2.00	<input type="text"/>
22	Red Grains(%) *	7.00	<input type="text"/>
23	Moisture(%) *	15.00	<input type="text"/>
24	Damaged(%) *	2.00	<input type="text"/>
25	Grade	<input type="text" value="Grade 1"/>	<input type="text"/>
26	Category	<input type="text" value="A"/>	<input type="text"/>
27	Infestation	<input type="text" value="Clear"/>	<input type="text"/>

Initial Fumigation Required  Is Sample Required?  Yes  No Quality   ACCEPT  REJECT

Remarks

- ❖ The user can click on the  button to auto-capture the moisture from the moisture meter.
- ❖ Once done a pop-up screen will open.
- ❖ The user will select the serial no. of the Moisture Meter from the dropdown.
- ❖ Once done, the moisture will be auto captured in the Moisture% field.
- ❖ The user can click on the close button. The same Moisture will be auto-populated in the Moisture % field on the quality screen.
- ❖ After capturing the “moisture” the user can click on the  button to proceed further.

### c. Issue of stock (Receipt of General/ Reservation/CMR basis)

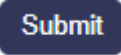
- ❖ The user can capture the issue moisture on the quality check screen.
- ❖ The moisture captured from the previous transaction shall be auto populated in the Moisture % field in case of multiple trucks.
- ❖ The user can click on the “capture” button to capture the moisture again.

Compartment Name	Stack Number	Bags	Moisture (in %)
774A	774A-1	40	<input type="text"/>

- ❖ The user will click on the **Capture** button and a pop up shall open as follows:

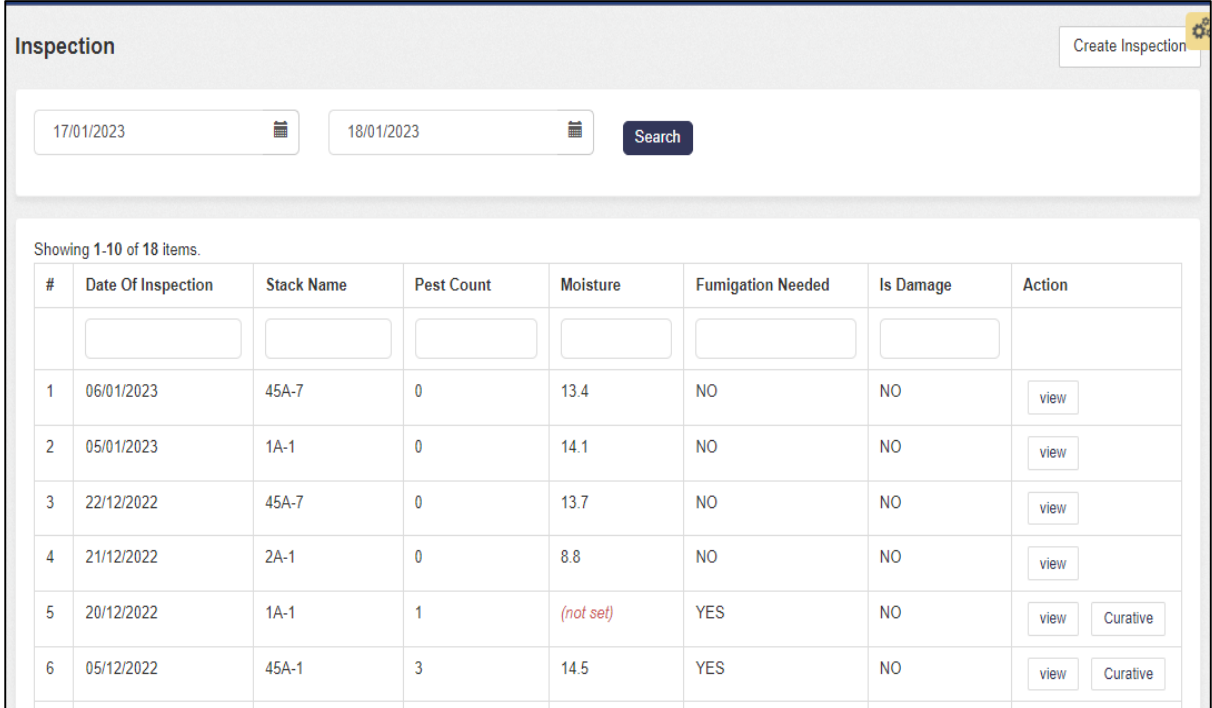
Compartment Name	Stack Number	Bags	Moisture (in %)
774A	774A-1	40	<input type="text"/>

- ❖ The user will select the serial no. of the Moisture Meter from the dropdown.
- ❖ Once done, the moisture will be auto captured in the Moisture% field.
- ❖ The user can click on the close button. The same Moisture will be auto-populated in the Moisture % field on the quality screen.

- ❖ After capturing the “moisture” the user can click on the  button to proceed further.

#### d. Fortnightly Inspection

- ❖ The user can create the inspection by clicking on the “Inspection” option from the “Preservation” menu.

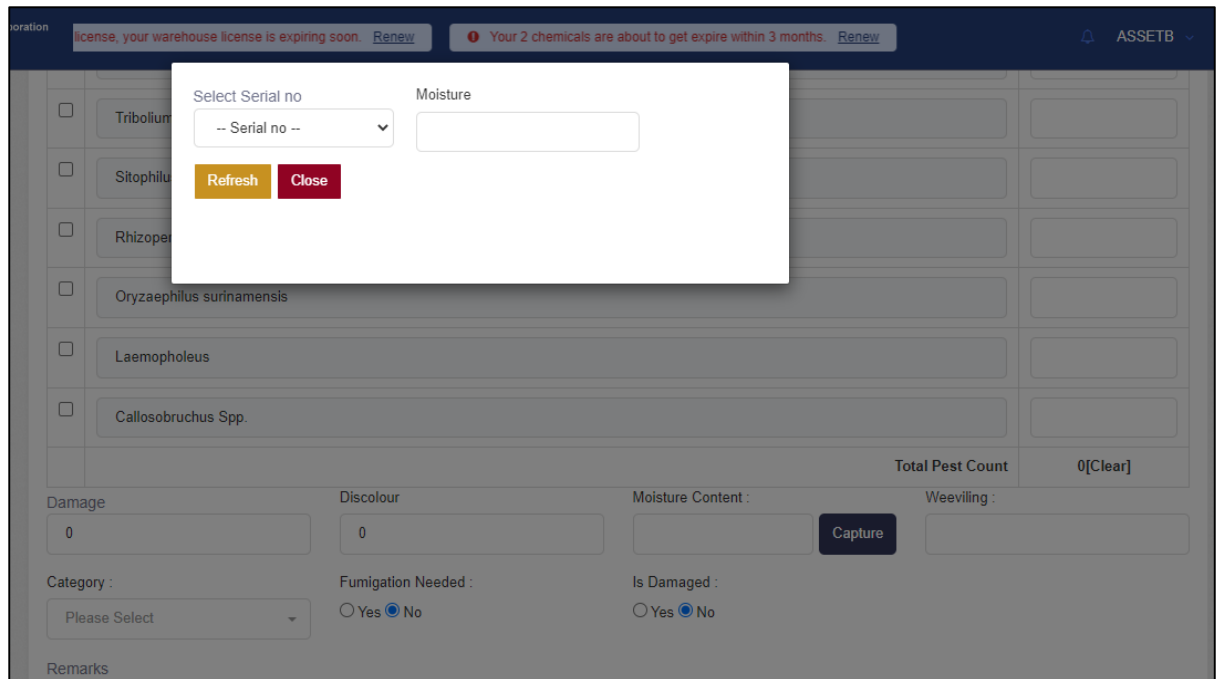


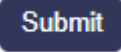
The screenshot shows the 'Inspection' page with a search bar at the top containing dates 17/01/2023 and 18/01/2023, and a 'Search' button. Below the search bar, it says 'Showing 1-10 of 18 items.' The table below contains the following data:

#	Date Of Inspection	Stack Name	Pest Count	Moisture	Fumigation Needed	Is Damage	Action
	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>	
1	06/01/2023	45A-7	0	13.4	NO	NO	<input type="button" value="view"/>
2	05/01/2023	1A-1	0	14.1	NO	NO	<input type="button" value="view"/>
3	22/12/2022	45A-7	0	13.7	NO	NO	<input type="button" value="view"/>
4	21/12/2022	2A-1	0	8.8	NO	NO	<input type="button" value="view"/>
5	20/12/2022	1A-1	1	(not set)	YES	NO	<input type="button" value="view"/> <input type="button" value="Curative"/>
6	05/12/2022	45A-1	3	14.5	YES	NO	<input type="button" value="view"/> <input type="button" value="Curative"/>

- ❖ Here, the user can click on the “create Inspection” button and will be redirected to the following screen:





- ❖ The user will select the serial no. of the Moisture Meter from the dropdown.
- ❖ Once done, the moisture will be auto captured in the Moisture% field.
- ❖ The user can click on the close button. The same Moisture will be auto-populated in the Moisture % field on the quality screen.
- ❖ After capturing the “moisture” the user can click on the  button to proceed further.

#### e. Technical Inspection

- ❖ The user can capture moisture in the test check statement of the Technical inspection.
- ❖ The moisture will be captured separately for each selected stack from the dropdown.

i) Prophylactic Treatment :

ii) Curative Treatment :

iii) Sliding Down of Stock :

Moisture (include the statement provided in the format) :-

Please select stacks

1A-2, 1A-3, 2A-1, 2A-2, 40A-1, 45A-1, 45A-7

Search

r/No of js	Moisture % recorded at the time of receipt	Date of last fortnightly inspection	Moisture % recorded by Tech.Staff during last fortnightly inspection	Moisture % recorded by IO during Technical inspection	Remark
340	13.2	06/01/2023	13.4	<input type="button" value="Capture"/>	
300	0	22/12/2022	13.7	<input type="button" value="Capture"/>	
30	7.1	15/04/2021	13.7	<input type="button" value="Capture"/>	
30	14.5	05/12/2022	14.5	<input type="button" value="Capture"/>	
300	4.5	01/04/2022	13.4	<input type="button" value="Capture"/>	
4	14.4	21/12/2022	8.8	<input type="button" value="Capture"/>	
	0	25/10/2021	26	<input type="button" value="Capture"/>	
396	13.2	29/08/2022	15.5	<input type="button" value="Capture"/>	

Remarks

NOTE:-

1. Please note that the data once saved in this screen using the SAVE option, will not re-appear after you leave the page and re-visit later. Hence it is requested to fill and finish the test check completely for every selected stack, save, and once finished the test check for all the stacks, may please proceed to next section. Reiterating that the details do not re-appear on the screen, however would be saved on the system.

2. However, in case it is required to verify the test check again, it can be possible by selecting the same stacks again to show up on the screen. The details thus could be checked as they appear after selecting the same stacks.

3. For any reason the test check for a selected stack is left blank, blank columns will get saved and would appear in final report. Hence it is advised to select only such stacks for test check which are required, so as to avoid incomplete columns in test check table.

Only after completing the test check and saving it, please proceed to next/ other section. IF NOT SAVED, THE DATA WILL BE LOST.

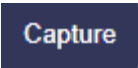
Pages 9 of 11

Save

« Previous

Next »

Capture

- ❖ The user can click on the  button to auto-capture the moisture from the moisture meter.
- ❖ Once done a pop-up screen will open.

Select Serial no

-- Serial no --
▼

Moisture (%)

Refresh

Close

- ❖ The user will select the serial no. of the Moisture Meter from the dropdown.
- ❖ Once done, the moisture will be auto captured in the Moisture% field.
- ❖ The user can click on the close button. The same Moisture will be auto-populated in the Moisture % field on the quality screen.
- ❖ After capturing the “moisture” the user can click on the “Save” button to proceed further.

### f. General Inspection

- ❖ The user can capture moisture in the test check statement of the Technical inspection.
- ❖ The moisture will be captured separately for each selected stack from the dropdown

CENTRAL WAREHOUSING CORPORATION

FORMAT FOR INSPECTION REPORT OF GENERAL WAREHOUSE / BONDED WAREHOUSES/CFSS/ICDS/ICP/AFS ETC.

DOC NO. F/INSP./01

ANNEXURE-IV

TEST Check Statement:-

Please select stacks

1A-2, 1A-3, 2A-1, 2A-2

Search

Made by Tech. Staff during FTI				Observation made by Squad/IO					Remarks
Station	Weeviling /Damaged,Discolor	Category	Moisture	Date	Infestation	Weeviling / DDC %	Category	Moisture	
Bay	0/0,0	B	13.4	18/01/2				<input type="text" value=""/>	<input type="text" value=""/>
Bay	0/1,1	A	8.8	18/01/2				<input type="text" value=""/>	<input type="text" value=""/>
Bay	2/1,0	B	26	18/01/2				<input type="text" value=""/>	<input type="text" value=""/>
Bay	0/8,8	B	15.5	18/01/2				<input type="text" value=""/>	<input type="text" value=""/>

Remarks

0/500

Verified and Acknowledged by JTA/TA Supervisor

Verified and Acknowledged by W M

Verified and Acknowledged by I.O. officer

**Note:** For any reason the test check for a selected stack is left blank, blank columns will get saved and would appear in final report. Hence it is advised to select only such stacks for test check which are required, so as to avoid incomplete columns in test check table.  
Only after completing the test check and saving it, please proceed to next/ other section. IF NOT SAVED, THE DATA WILL BE LOST."

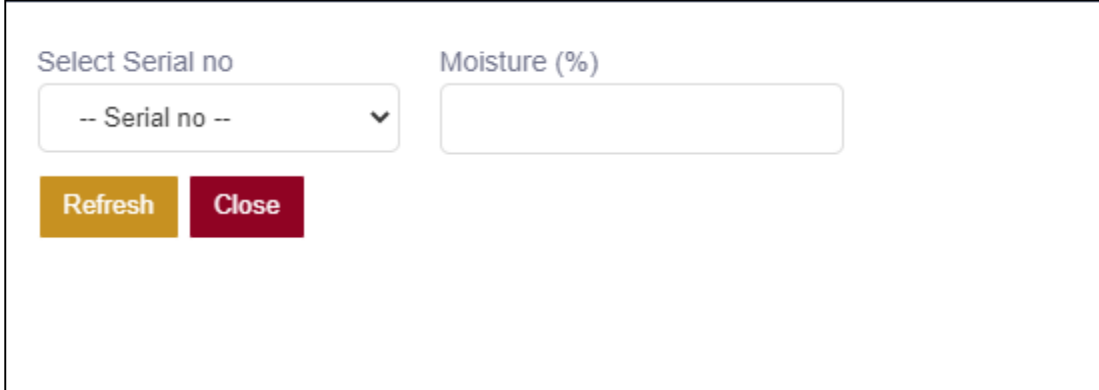
← Previous

Save

Next →

Save & Next

- ❖ The user can click on the **Capture** button to auto-capture the moisture from the moisture meter.
- ❖ Once done a pop-up screen will open as follows:



The screenshot shows a pop-up window with a white background and a thin black border. At the top left, the text "Select Serial no" is displayed above a dropdown menu. The dropdown menu currently shows "-- Serial no --" and a small downward arrow. To the right of the dropdown, the text "Moisture (%)" is displayed above an empty rectangular input field. Below the dropdown and input field, there are two buttons: a yellow button labeled "Refresh" and a red button labeled "Close".

- ❖ The user will select the serial no. of the Moisture Meter from the dropdown.
- ❖ Once done, the moisture will be auto captured in the Moisture% field.
- ❖ The user can click on the close button. The same Moisture will be auto-populated in the Moisture % field on the quality screen.
- ❖ After capturing the “moisture” the user can click on the “Save” button to proceed further.

***Note: If the serial no. of the moisture meter will not match with the selected serial no. from the dropdown, then the system will throw an error.***