



CENTRAL WAREHOUSING CORPORATION
केंद्रीय भंडारण निगम
A GOVERNMENT OF INDIA UNDERTAKING

WAREHOUSE MANAGEMENT SOLUTION

USER MANUAL - PRESERVATION

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PRESERVATION

The warehouses are obliged to perform fortnightly inspections of the stock stored in the godown to access the quality and infestation present in the stacks. The processes included in the preservation module are

- Fortnightly Inspection
- Prophylactic
- Curative

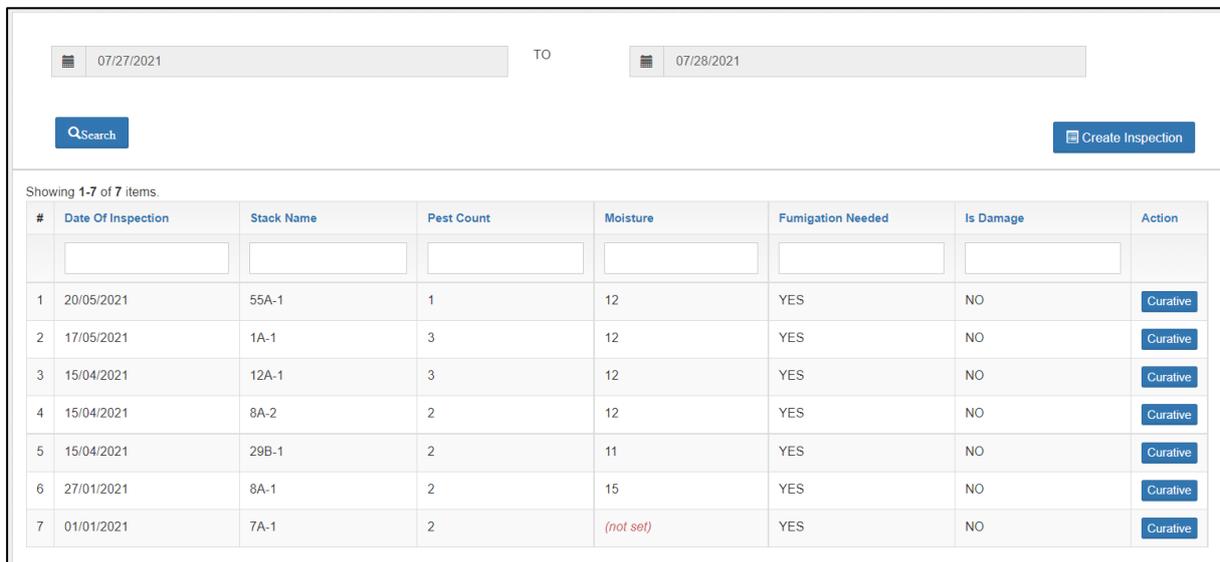
(User – WHM)

1. Fortnightly Inspection

A. A warehouse manager can perform fortnightly inspection of stack(s) in the WMS by following the following steps:

Preservation >> Inspection

B. The system will redirect the WHM on the list screen where he can view the list of inspections previously conducted in the warehouse.



#	Date Of Inspection	Stack Name	Pest Count	Moisture	Fumigation Needed	Is Damage	Action
1	20/05/2021	55A-1	1	12	YES	NO	Curative
2	17/05/2021	1A-1	3	12	YES	NO	Curative
3	15/04/2021	12A-1	3	12	YES	NO	Curative
4	15/04/2021	8A-2	2	12	YES	NO	Curative
5	15/04/2021	29B-1	2	11	YES	NO	Curative
6	27/01/2021	8A-1	2	15	YES	NO	Curative
7	01/01/2021	7A-1	2	(not set)	YES	NO	Curative

C. The WHM can also search for a record by selecting the from date and to date in the search provided.

D. The 'Curative' button under the Action column suggests that the stock is infested and requires curative process to eliminate the same. Clicking on the curative button will redirect the user to the respective screen.

Note: The process to perform curative is described under the ‘Curative’ section.

E. To conduct a new inspection, the WHM will click on the ‘Create Inspection’ button. This will redirect the user to the Inspection form screen.

Create Inspection Please fill in the following information to create Inspection. * indicates the field is mandatory.

Date of Inspection * Godown * Compartment *

Stack *

Date of Formation	Depositor Name	Commodity	Variety	Bag Type	Number of Bags	Quantity (Qtl's)	No. Of Time Inspection	Last Inspection Date	No. Of Time Spray	Last Spray Date	No. Of Time Fumigation	Last Date of Fumigation
25/04/2021	FCL ROHTAK	WHEAT	WHEAT 2021-2022	PLASTIC BAG	3080	1541.51869	6	07/14/2021	4	15/06/2021	1	06/01/2021

Pest Name	Pest Count
<input checked="" type="checkbox"/> Trogoderma Granaria everts	<input type="text" value="1"/>
<input checked="" type="checkbox"/> Tribolium castaneum	<input type="text" value="1"/>
<input checked="" type="checkbox"/> Sitophilus oryzae	<input type="text" value="1"/>
<input checked="" type="checkbox"/> Rhizopertha dominica	<input type="text" value="1"/>
<input type="checkbox"/> Rattus norvegicus	<input type="text"/>
<input type="checkbox"/> Oryzaephilus surinamensis	<input type="text"/>
<input type="checkbox"/> Laemophloeus	<input type="text"/>
<input type="checkbox"/> Ephestia cautella	<input type="text"/>
<input type="checkbox"/> TERMITE	<input type="text"/>
<input type="checkbox"/> Rodents	<input type="text"/>
<input type="checkbox"/> Callosobruchus Spp.	<input type="text"/>
Total Pest Count	4[Heavy]

Damage Discolour Moisture Content : Weeviling : Category :

Fumigation Needed : Yes No
Is Damaged : Yes No

Remarks

200 Characters Left

F. On this screen the WHM will enter the required details. Depending upon the infestation number, the system will suggest if ‘Fumigation’ is required on the selected stack.

Note: All the fields marked with ‘*’ are mandatory.

G. Clicking on the Reset button will erase all the data entered and make the fields blank.

H. Clicking on the Cancel button will cancel the process and redirect the user to the list screen.

- I. Clicking on the save button will save the data entered in the database.
- J. The user can view the fortnightly details in the ‘Fortnightly Technical Inspection’ report. To reach the screen the user will follow the below-mentioned steps.

Reports & Registers >> Technical >> Fortnightly Technical Inspection

Reports > Fortnight Inspection Report

Warehouse *
WH TESTING 3

Godown No*
1

Godown Compartments*
1A

Deposit Request period*
This Year

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Fortnight Inspection Report F/TECH/18
RO Testing:WH TESTING 3 (01/01/2021 To 27/07/2021)

Sr.No	Date	Commodity Name	Godown No/Stack No.	No of Bags	Weight	Classification	Refractions				Category	Avg. Moisture	Treatment			Post Treatment Classification	Remarks
							Weevil	Damaged	Discoloured	Bran			Date	No. Of Bag/Area/Vol	Chemical used		
1	17/05/2021	BAJRA	1 / 1A-1	14	4	Heavy		0	0		B	12	17/05/2021	14	0.004		

Showing 1 to 1 of 1 entries

- K. The user can perform the search by selecting the godown number, compartment number, and deposit request period to view the data of all the past inspections done on the selected compartment.
- L. User the also download the report in PDF and Excel.

2. Prophylactic

- A. The WHM can perform prophylactic treatment on empty/occupied stack/compartment by following the below-mentioned steps:

Preservation >> Prophylactic

- B. The system will redirect the WHM on the list screen where he can view the list of prophylactic treatments previously conducted in the warehouse.

Prophylactic

Create Prophylactic Spray

Reset Search

Showing 1-1 of 1 item.

#	Spray Type	Stack/Compartment Name	Spray Date	Chemical Name	Alleyway(Sq. Mt)	Inner wall (Sq. Mt)	Front wall & Platform (Sq. Mt)	Surface Area (Sq. Mt)	Used Chemical Qty
1	STACK	8A-1	27/01/2021	DDVP LIQUID	100	500	40	(not set)	0.128

- C. The user can perform search by entering the desired search parameter in

the spaces available under the table header.

- D. Clicking on the 'Reset Search' button will erase all the search parameters and re-load the list to its default setting.
- E. To conduct a new prophylactic treatment, the WHM will click on the 'Create Prophylactic Spray' button. This will redirect the user to the Prophylactic form screen.

Spraying

View Chemical Dosage Calculation BACK

Stack/Empty Floor* STACK Godown* 1 Compartment* 1A

Chemical* DELTAMETHRIN POWDER Stack* 1A-1 Date of Spray* 27/07/2021

Additional Details

Alleyways & Empty floor (Sq. Mt)* Area of inner wall (Sq. Mt)* Area of front wall & platform (Sq. Mt)* Stack surface Area (Sq. Mt)*

Standard Dosage* 120 GRAM / 100 SQ. MTS Dilution* 1:100 Quantity of Chemical Required (Ltrs)* 0

Batch No.	Quantity of chemical used (Ltrs)	Available Quantity	Add More
Please Select Batch No.	0	0.0	

Remarks

250 characters remaining

Save

- F. The WHM can conduct the treatment either on a Stack or Compartment. Once selected, the user will select/enter the requested details.
- G. The system will auto-calculate the chemical dosage required to conduct the prophylactic treatment. To view the calculation, the user can click on the 'View Chemical Dosage' button.

D.D.V.P

3 litres| 100 sq mt
Dilution 1:150

Area

Area of Walls (A) 7382 sq ft
Alleways (C) 2250 sq ft
Front Walls (D) 3105 sq ft

12735 sq ft

Dosage for 1 compt. @20ml | 100 sq mt
 $1184/100 * 20 = 236.80$ ml

3 compt. = $236.80 * 3 = 710.40$ ml

AL Phosphate

Dosage 3 Tablets per M.T. or 9 gm | M.T
1620 Bags = $162 * 9 = 1458$ gm = 1.458kg
1728 B = $172 * 9 = 1548$ gm = 1.548kg
5000 * 9 = 45Kg

Volume

120 = 140 tablets | 100 cubic mt
Volume of compt. $135 * 70 * 20$ $5352 * 420\text{gm}/100 = 22.5\text{Kg}$
= 189000 cubic ft

$189000 * 0.02832 = 5352.48$ cubic mt	100 M.T. stacks require 37 ml Malathion
15 ml DDVP	

5000 M.T godown has got 3 compt. of $135' * 70'$ each.

Malathion

Area of inner walls + surface area of all stacks + Area of alleways + Outer area of front walls & corridor / platform.

Area of inner walls

$L * H * 2 = 135 * 18 * 2 = 4860$ sq ft
 $L * H * 2 = 70 * 18 * 2 = 2520/7380$ sq ft (A)

Area of stacks

$(L * B + L * H * 2 + B * H * 2) 12$
 $(30 * 20 + 30 * 15 * 2 + 20 * 15 * 2) 12$
 $(600 + 900 + 600) 12 = 2100 * 12 = 25200$ sq ft (B)

Area of Alleways

Carpet area - Surface area
 $135 * 70 - (30 * 20) 12$
 $9450 - 7200 = 2250$ sq ft (C)

Area of front wall + Corridor

$135 * 18 + 135 * 5$
 $2430 + 675 = 3105$ sq ft (D)
 $A + B + C + D = 37935$ sq ft
 $37935 * 0.09299 = 3527.58$ sq mt
Malatiron per 1 spray in 1 = $3528/100 * 30$ ml
compt. = 1 litre
In 3 compt. 3 litres

H. The WHM will then proceed to enter the chemical details to complete the process. The user can select the chemical from multiple batches by clicking on the ‘Add more’ button.

I. Clicking on the save button will save the data in the database and the same will populate under the Spray report as well.

J. To access the report the user will follow the below-mentioned steps:

Reports & Registers >> Technical >> Spray Report

Reports > Spraying Register

Warehouse * WH TESTING 3 Godown No * 8 Deposit Request period * This Year

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 Spraying Register
 RO Testing:WH TESTING 3 (01/01/2021 To 27/07/2021)

Sr.No	Date of Spray	Type of Spray	Commodity	Stack No	Area of Alleyway (Sq.M.)	Area of inner wall (Sq.M.)	Area of front platform & wall (Sq.M.)	Stack surface Area (Sq.M.)	Total Area (Sq.M.)	Chemical Name	Chemical Dosage	Chemical Used qty (Kg/Ltr)
1	27-01-2021	STACK	BAJRA	8A-1	100	500	40	0	640	DDVP LIQUID	20 ML /100 SQ.MTS	0.128

Showing 1 to 1 of 1 entries

1

K. The user can perform the search by selecting the godown number and deposit request period to view the data of all the past prophylactic treatments done on the selected godown.

L. User the also download the report in PDF and Excel.

3. Curative

A. The WHM can perform Curative treatment on a shed or covered space either through the curative menu or by clicking on the ‘Curative’ button after the fortnightly inspection.

B. To access the screen from the ‘Curative’ menu, the user will follow the below-mentioned steps:

Preservation >> Curative

C. The system will redirect the WHM on the list screen where he can view the list of curative treatments previously conducted in the warehouse.

Curative

Create Curative

Showing 1-6 of 6 items.

#	Type	Date	Stack/Compartment Name	Chemical Name	Required Qty	Fumigation Used Qty	Status
1	COVERED	17/05/2021	1A-1	ALUMINIUM PHOSPHIDE	0.004	0.004	Pending Degasing
2	COVERED	15/04/2021	29B-1	ALUMINIUM PHOSPHIDE	0.9	0.9	Degasing Done
3	COVERED	08/04/2021	8A-2	ALUMINIUM PHOSPHIDE	0.088	0.088	Pending Degasing
4	COVERED	09/04/2021	12A-1	ALUMINIUM PHOSPHIDE	0.036	0.036	Degasing Done
5	COVERED	27/01/2021	8A-1	ALUMINIUM PHOSPHIDE	0.176	0.176	Pending Degasing
6	COVERED	05/01/2021	7A-1	ALUMINIUM PHOSPHIDE	0.9	0.9	Pending Degasing

D. To conduct a new curative treatment, the WHM will click on the ‘Create Curative’ button. This will redirect the user to the Curative form screen.

E. The WHM can conduct two types of curative treatment, i.e., Cover or Shed.

a) **Cover Fumigation**

Create Curative
View Chemical Dosage Calculation

Type of fumigation *

Godown *

Compartment *

Stack *

Date of Fumigation*

Stack Name	Date of Formation	Depositor Name	Commodity	Variety	Units / Bags	Weight (Qts)	Last Fumigation Date	Pest Count
1A-2	26/07/2021	Bheem	BAJRA	BAJRA c	9	0.64285	NA	0
1A-3	26/07/2021	Bheem	BAJRA	BAJRA c	5	0.35715	NA	0

1A-2

Chemical *

Weight in Stack (MT)

Standard Dosage

Recommended Quantity (KG)

Batch No.	Qty Used	Available Quantity	
<input type="text" value="Please Select"/>	<input type="text" value="0"/>	0.0	Add More

1A-3

Chemical *

Weight in Stack (MT)

Standard Dosage

Recommended Quantity (KG)

Batch No.	Qty Used	Available Quantity	
<input type="text" value="Please Select"/>	<input type="text" value="0"/>	0.0	Add More

Total Weight

1.00000 Qtl

Total Chemical Used

Remarks

200 Characters Left

Reset
Cancel
Save

- i) The user will enter the requested details in the form.
- ii) The system will auto-calculate the chemical dosage required to conduct the prophylactic treatment. To view the calculation, the user can click on the 'View Chemical Dosage' button.

D.D.V.P

3 litres | 100 sq mt
Dilution 1:150

Area

Area of Walls (A) 7382 sq ft
Alleways (C) 2250 sq ft
Front Walls (D) 3105 sq ft

12735 sq ft

Dosage for 1 compt. @20ml | 100 sq mt
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AL Phosphate

Dosage 3 Tablets per M.T. or 9 gm | M.T

1620 Bags = $162 * 9 = 1458$ gm = 1.458kg
1728 B = $172 * 9 = 1548$ gm = 1.548kg

5000 * 9 = 45Kg

Volume

120 = 140 tablets | 100 cubic mt
Volume of compt. $135 * 70 * 20 = 189000$ cubic ft
 $5352 * 420 \text{ gm} / 100 = 22.5 \text{ Kg}$

$189000 * 0.02832 = 5352.48$ cubic mt	100 M.T. stacks require 37 ml Malathion
15 ml DDVP	

5000 M.T godown has got 3 compt. of 135' * 70' each.

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Area of inner walls

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Area of Alleways

Carpet area - Surface area
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Area of front wall + Corridor

$135 * 18 + 135 * 5$
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 $37935 * 0.09299 = 3527.58$ sq mt
Malatiron per 1 spray in 1 = $3528/100 * 30$ ml
compt. = 1 litre
In 3 compt. 3 litres

- iii) The WHM will then proceed to enter the chemical details to complete the process. The user can select the chemical from multiple batches by clicking on the 'Add more' button.
- iv) Clicking on the save button will save the data in the database and the same will populate under the Fumigation report as well.
- v) Once a curative treatment is done, the user cannot issue the stock from the respective stacks/compartments until the compartment is degassed. The standard time for the degassing of a compartment is 5 days.
- vi) To degas a compartment, the user will open the Curative list screen and click on the 'Pending degassing' button provided.

Curative Create Curative

Showing 1-6 of 6 items.

#	Type	Date	Stack/Compartment Name	Chemical Name	Required Qty	Fumigation Used Qty	Status
1	COVERED	17/05/2021	1A-1	ALUMINIUM PHOSPHIDE	0.004	0.004	Pending Degassing
2	COVERED	15/04/2021	29B-1	ALUMINIUM PHOSPHIDE	0.9	0.9	Degasing Done
3	COVERED	08/04/2021	8A-2	ALUMINIUM PHOSPHIDE	0.088	0.088	Pending Degassing
4	COVERED	09/04/2021	12A-1	ALUMINIUM PHOSPHIDE	0.036	0.036	Degasing Done
5	COVERED	27/01/2021	8A-1	ALUMINIUM PHOSPHIDE	0.176	0.176	Pending Degassing
6	COVERED	05/01/2021	7A-1	ALUMINIUM PHOSPHIDE	0.9	0.9	Pending Degassing

vii) To degas a compartment, the user will open the Curative list screen and click on the 'Pending degassing' button provided and confirming their action.

a) Shed Fumigation

Create Curative View Chemical Dosage Calculation

Type of fumigation * Godown * Compartment *

Date of Fumigation*

Stack Name	Date of Formation	Depositor Name	Commodity	Variety	Units / Bags	Weight (Qtls)	Last Fumigation Date	Pest Count
3A-3	22/12/2020	kisando	WHEAT	sasasas GOOD	35	11.96582	NA	0
3A-2	22/12/2020	kisando	BLACK GRAM (BROKEN)	sasasas PULSES	40	20.00000	NA	0
3A-1	22/12/2020	kisando	BAJRA	sasasas Medium	28	14.24920	NA	0

3A

Length (mtr.)* Breadth (mtr.)* Height (mtr.)*

Dose in tabs/100 Cu. Mtr* Chemical * Standard Dosage

Recommended Quantity (KG)

Batch No.	Qty Used	Available Quantity	Add More
<input type="text" value="Please Select"/>	<input type="text" value="0"/>	0.0	<input type="button" value="Add More"/>

Total Weight 46.21502 Qtl Total Chemical Used

Remarks

200 Characters Left

- i) The user will enter the requested details in the form.
- ii) The system will auto-calculate the chemical dosage required to conduct the prophylactic treatment. To view the calculation, the user can click on the 'View Chemical Dosage' button.

DDVP

3 litres | 100 sq mt
Dilution 1:150

Area

Area of Walls (A) 7382 sq ft
Alleways (C) 2250 sq ft
Front Walls (D) 3105 sq ft

12735 sq ft

Dosage for 1 compt. @20ml | 100 sq mt
 $1184/100 * 20 = 236.80$ ml

3 compt. = $236.80 * 3 = 710.40$ ml

AL Phosphate

Dosage 3 Tablets per M.T. or 9 gm | M.T

1620 Bags = $162 * 9 = 1458$ gm = 1.458kg
1728 B = $172 * 9 = 1548$ gm = 1.548kg

5000 * 9 = 45Kg

Volume

120 = 140 tablets | 100 cubic mt
Volume of compt. $135 * 70 * 20 = 189000$ cubic ft
 $189000 * 0.02832 = 5352.48$ cubic mt

5352 * 420gm/100 = 22.5Kg
100 M.T. stacks require 37 ml Malathion
15 ml DDVP

5000 M.T godown has got 3 compt. of 135' * 70' each.

Malathion

Area of inner walls + surface area of all stacks + Area of alleways + Outer area of front walls & corridor / platform.

Area of inner walls

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Area of stacks

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 $(30 * 20 + 30 * 15 * 2 + 20 * 15 * 2) 12$
 $(600 + 900 + 600) 12 = 2100 * 12 = 25200$ sq ft (B)

Area of Alleways

Carpet area - Surface area
 $135 * 70 - (30 * 20) 12$
 $9450 - 7200 = 2250$ sq ft (C)

Area of front wall + Corridor

$135 * 18 + 135 * 5 = 2430 + 675 = 3105$ sq ft (D)
A + B + C + D = 37935 sq ft
 $37935 * 0.09299 = 3527.58$ sq mt
Malatiron per 1 spray in 1 = $3528/100 * 30$ ml
compt. = 1 litre
In 3 compt. 3 litres

- iii) The WHM will then proceed to enter the chemical details to complete the process. The user can select the chemical from multiple batches by clicking on the 'Add more' button.
- iv) Clicking on the save button will save the data in the database and the same will populate under the Fumigation report as well.
- v) Once a curative treatment is done, the user cannot issue the stock from the respective stacks/compartments until the compartment is

degassed. The standard time for the degassing of a compartment is 5 days.

vi) To degas a compartment, the user will open the Curative list screen and click on the ‘Pending degassing’ button provided.

Curative

[Create Curative](#)

Showing 1-6 of 6 items.

#	Type	Date	Stack/Compartment Name	Chemical Name	Required Qty	Fumigation Used Qty	Status
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3	COVERED	08/04/2021	8A-2	ALUMINIUM PHOSPHIDE	0.088	0.088	Pending Degassing
4	COVERED	09/04/2021	12A-1	ALUMINIUM PHOSPHIDE	0.036	0.036	Degasing Done
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6	COVERED	05/01/2021	7A-1	ALUMINIUM PHOSPHIDE	0.9	0.9	Pending Degassing

vii) To degas a compartment, the user will open the Curative list screen and click on the ‘Pending degassing’ button provided and confirming their action.

F. To access the report the user will follow the below-mentioned steps:

Reports & Registers >> Technical >> Fumigation Report

Reports > Fumigation Register

Warehouse * Godown No' Deposit Request period *

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 A Govt. Of India Undertaking
Fumigation Register
 RO Testing:WH TESTING 3 (01/01/2021 To 27/07/2021)

Sr.No	Date of Fumigation	Type of Fumigation (Shed/Cover)	Commodity	Compartment/Stack No	No. of Bags	Weight	Length	Breadth	Height	Volume	Chemical	Dosage	Quantity Consumed (Kg)	Date of Degasing
1	05-01-2021	COVERED	BLACK GRAM (BROKEN)	7A-1	2000	1000.00000	--	--	--	--	ALUMINIUM PHOSPHATE TABLETS	9 GRAM /MT	0.900	--

Showing 1 to 1 of 1 entries

[1](#)

G. The user can perform the search by selecting the godown number and deposit request period to view the data of all the past curative treatments done on the selected godown.

H. User the also download the report in PDF and Excel.