



केन्द्रीय भण्डारण निगम

(भारत सरकार का उपक्रम)

CENTRAL WAREHOUSING CORPORATION

(A Govt. of India Undertaking)

जन-जन के लिये भण्डारण - Warehousing for Everyone



REMINDER-I

Dated: 05.05.2022

No. CWC/PCS/Correspondence/2022-23

The Regional Manager

Central Warehousing Corporation
Regional Office

**Ahmedabad/ Bangalore/ Bhopal/ Chandigarh/ Chennai/ Delhi/Guwahati/
Hyderabad/ Jaipur/ Kochi/ Kolkata/ Lucknow/ Mumbai/Patna**

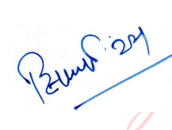
Sub: PCS Compendium for awareness & publicity.....reg

Ref: CO letter no. CWC/PCS & Tech Div/PCS Marketing/2021-22 Dt 14.01.22

Apropos subject cited above, it has been noticed by the Competent Authority that certain field units are unaware of the essentials of our Pest Control Services, its SOPs, Tariff, Chemicals, Dosages etc. Certain centers were also found to be lacking in basic publicity material. Consequently, a Compendium was prepared containing a brief overview of all our pest control activities and instructed vide above referred letter to circulate to all WHs/PCCs for awareness & marketing purpose.

It was observed by Director (Fin) during visit to one unit that the same was not available with the PCS In-charge of the Unit. It is again reminded that the compendium should be circulated to all units for awareness & service marketing purposes. ROs may also use brochures/pamphlets & other material to adequately equip the PCS Cell In-Charges/WMs for marketing of our Pest control services.

This is for information and necessary action please.

 Digitally signed by
DR. SIDHARTH
RATH
Date: 2022.05.05
15:21:40 +05'30'

HOD (PCS & Tech.)

Copy to:

1. SAM (MIS) for uploading the same on CWC website.
2. PS to Director(F) for information pl.



केन्द्रीय भण्डारण निगम
(भारत सरकार का उपक्रम)
CENTRAL WAREHOUSING CORPORATION
(A Govt. of India Undertaking)
जन-जन के लिए भण्डारण/Warehousing for Everyone



CWC - Pest Control Services

For Government and Private Establishments

Our Services:

- Disinfection/ Sanitization Services
- Household Pest Control
- Anti-termite Treatment
- Rodent Control
- Fumigation Services
- Weed Control
- Vector Control

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of experience

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ISO 14001:2015
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operators

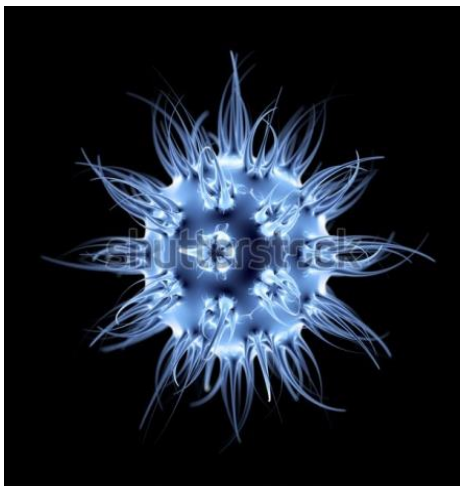
CWC IS NATION'S MOST TRUSTED & RENOWNED
PEST CONTROL SERVICE PROVIDER



Central Warehousing Corporation (CWC), a Schedule 'A'-Mini Ratna, Category – 1 Central Public Sector Enterprise (CPSE) is a statutory body which was established under 'The Warehousing Corporations Act, 1962'. It's aim is to provide reliable, cost-effective, value-added, integrated warehousing and logistics solution in a socially responsible and environment friendly manner. Warehousing activities of CWC includes food grain warehouses, industrial warehousing, custom bonded warehouses, container freight stations, inland clearance depots and air cargo complexes. Apart from storage and handling, CWC also provides services in the area of clearing & forwarding, handling & transportation and **Pest Control Services** which includes management of mosquitoes, cockroaches, flies, rodents, termites, bedbugs, storage pests (with the use of Fumigants) and disinfection/sanitization services.

SEGMENTS OF PEST CONTROL SERVICES

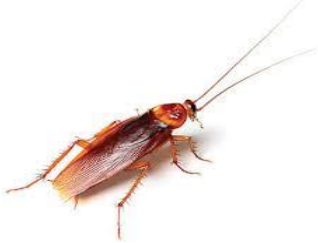
1. Sanitization/Disinfection Services:



- Microbes like bacteria, fungi, viruses and others are treated through various techniques like surface mopping, air sterilisation, fogging & mist blowing, fumigation, surface spraying etc. with suitable disinfectants.
- CWC Dis-infection service uses **EPA-registered/ approved disinfectants** against a wide variety of pathogens, microbes including COVID-19.

<u>Disinfection Service</u> <u>Tariff (in Rs.)</u>	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
City		Z	Y	X	Z	Y	X	
Fogging/Ultra Low Volume Treatment(ULV)on surface	Sq m	5.00	7.00	9.00	6.00	9.00	11.00	100 sq m

2. Household Pest Control:



- This segment is directed towards controlling house-hold pests like cockroaches, flies, bed-bugs, mosquitoes, etc.
- Potential customers are housing societies, colonies and residential complexes.
- Treatment is carried out by spraying, fogging, baiting, dusting of suitable low toxic chemicals safe to human beings and pets.

(I) House Hold Pest Control Tariff (in Rs)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
City								
Surface Treatment	Sq m	6.00	8.50	11.00	7.00	10.00	13.00	100 sq m
Gel Treatment(cockroach)	Sq m	18.00	25.00	32.00	19.00	27.00	35.00	50 sq m
Fly baiting	Sq m	As per Rodent baiting with different bait materials.						
Bed bug treatment	Sq m	As per surface treatment with oil based products.						

3. Anti-Termite Treatment:



- Termites are beneficial to the environment because they break down dead trees and other plant material into substances useful to plants, but they certainly aren't beneficial for homes. Many species of termites cause considerable damage to houses, offices, our furniture, wooden fences and other structures.
- Subterranean termites nest in the ground and burrow into wood, usually fallen trees and stumps. They enter wood of buildings where it comes into contact with the ground or they get in via tunnels through cracks in the foundation.
- A distinct segment of pest control service is directed towards control of termites in buildings, timbers, furniture & fixtures. This is done as a Pre-construction preventive measure, Post-construction curative treatment and to affected wooden structures & materials.

(II) Anti-Termite Treatment Tariff (in Rs.)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
City								
Pre-construction(3 stages)	Sq m	115	161	207	131	183	236	50 sq m
Post-construction(Internal +External)	Rm	268	375	482	284	398	511	50 Rm Internal =100sq m
Wooden structure	Sq m	As per surface treatment with oil based products.						

4. Rodent Control:



- Special treatment to control rats, mice and bandicoots in offices, factories, open yards, sub-stations, milk parlours, Dairy plants, fields, houses, Railway stations,airports,seaports etc.
- Involves burrow fumigation, poison baiting, trapping and use of anti-coagulants.

Rodent Control Tariff (in Rs.)	Unit	General			Min. Quantity
		Z	Y	X	
City					
Burrow Fumigation	Sq m	7.00	9.00	12.00	100 sq m
Poison baiting	Sq m	8.00	11.00	14.00	100 sq m
Glue Trap (4 traps for 100sq m)	Per trap	203	284	365	100 sq m

5. Fumigation Services:



- Fumigation means releasing of toxic fumes to curb pests both for domestic and commercial purposes in godowns, mills, containers of import and export, ships and more.
- Grain fumigation, mill fumigation, room fumigation with a suitable fumigant like ALP under strict supervision of a qualified/trained supervisor.
- Non-chemical fumigation using Carbon dioxide is also provided for customers on demand.

Fumigation Services Tariff(in Rs.)	Unit	NSPM		AQIS		Min. Quantity
		With AIP	With MBr	With AIP	With MBr	
Foodgrain	MT	14	-	21	-	100 MT
Container	TEU(40)	965	1,437	1,448	2,156	--
	FEU(91)	1,098	2,446	1,647	3,669	--
	FEU(76)	1,098	2,054	1,647	3,081	--

6. Weed control:



- This segment of service is to manage the unwanted herbs and weeds by spraying suitable herbicides/weedicides. Required at airports, railway yards, tracks and platforms, oil storage area, port area, municipal area, residential areas etc.

Weed Control Tariff (in Rs.) (Require 03 Treatments)	Unit Sq m	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
		14.00	20.00	25.00	16.00	23.00	29.00	100 sq m

7. Vector control



- This is mainly an activity of larvicide treatment, surface spraying and fogging, well integrated to provide a holistic solution so as to manage Vectors i.e disease carrying organisms such as mosquitoes, fleas, ticks, lice & flies.

(IV) Vector Control (in Rs)	Unit	General			Premium			Min. Quantity
City		Z	Y	X	Z	Y	X	
Larvicide	Sq m	5.00	7.00	9.00	7.00	10.00	13.00	200 sq m
Fogging	Cu m	11.00	16.00	21.00	12.00	17.00	22.00	100 cu m
Surface Treatment	As above							

Clients and Achievements:

Some of our major clients are Government Offices & Ministries, Railways, IRCTC, DMRC, Air Port Authority of India & its various Airports, Airlines such as Air India, IndiGo & SpiceJet, RBI, SBI, PNB, SAIL, BHEL, GAIL, PowerGrid, ALIMCO, IIM's, IIT's, Central Universities, Science centres, National Museums, various Hospitals such as AIIMS, NCML, ACWSL etc.

- Sanitization/Disinfection of more than 300 government offices/organizations across 4000 locations throughout the country during the ongoing COVID-19 pandemic.
- Disinfection at various public installations such as airports & airlines, railway stations & trains, Banks, Hospitals, Private houses & residential colonies.
- Pest control of more than 350950 railway coaches across 19 Railway Divisions.
- Treatment of more than 5000 flights of Air India under the 'Vande Bharat' Mission.
- Pest Control services at 24 Airports across the nation.
- Fogging treatment against vectors such as mosquitoes, flies etc in Ahmedabad covering more than 3,50,000 homes under Ahmedabad Municipal Corporation.



**Standard Operating
Procedure (SOP)**

**CARBON DIOXIDE
FUMIGATION**



Central Warehousing Corporation

Introduction

Fumigation is the only curative method for infestation in agricultural commodities and also for quarantine purposes. Aluminum Phosphide and Methyl Bromide are widely used fumigants for the purpose. Although no residue has been reported in food grains, organic food producers are reluctant to use the chemicals for fumigation of their high value produce.

Carbon dioxide is the only approved fumigant to treat organic products that have been infested with insects. Carbon dioxide kills by dehydrating insects. It causes the insects spiracles to stay open which allows water to be released.

Fumigation with Carbon dioxide

The commodity is loaded into gas-tight Cocoons of flexible PVC for fumigation. Once the cocoon is closed with the special gas-tight zipper, CO₂ is flushed into the cocoon. Insertion of gas will take place at a bottom gas inlet, whereas a top outlet enables the release of lighter oxygen. The amount of CO₂ inserted should reach a concentration of 90%. This initial concentration will kill all living insects, larvae and eggs within exposure time of maximum of 14 days, and as little as 2 days, depending on temperature, commodity and target insect species. As a rule, CO₂ is much more effective at higher temperatures than at lower temperatures. The concentration of the CO₂ can be easily controlled with a portable CO₂ analyzer.

This technology fits most situations where Methyl Bromide and/or Phosphine are excluded from use as fumigants for environmental, insect tolerance, or health-food reasons.



Material Requirement

Cocoon (20 MT)



Carbon dioxide monitor



PVC glue



Silicon spray



Manometer



CO₂ cylinder



Humidity indicator



Thermometer



Gas mask and canister



Other safety equipment



Procedure for Fumigation

- **Installation of enclosures (indoor installation only)**
The Cocoon can be installed both inside and outside on a plane surface away from standing water. First the bottom sheet is spread and bags are stacked inside beginning from the four corners.
- **Stacking-** Criss-cross layer stacking is done. One cavity about 1-2 layer (20 cm wide) aligned with inlet port is left is to facilitate CO₂ flushing.
- **Making air-tight** – Top sheet is placed and the cocoon is made air-tight with zipper track & pull.
- **Pressure decay test-** Pressure decay test is done by using manometer to create at least 250 Pascal.
- **Release of CO₂** – Carbon dioxide cylinder is connected to the bottom inlet and gas flushed inside outlet port is opened to evacuate air.
- **Monitoring CO₂ level** – CO₂ level is monitored using concentration monitor. The first day should be 90% CO₂ and after 2 weeks, a minimum of 35% of CO₂ concentration is maintained.
- **Degassing** – Being a nontoxic gas (asphyxiant gas) the cocoon can be unzipped and wait till most of the CO₂ dispersed.

Process Flow of CO₂ Fumigation

Select the open space/Covered Structure (Available sufficient space for operational movement)



One half of the cocoon, the smaller one and bottom portion are spread on concrete floor



Proper stacking of commodity on bottom portion area is to be done



After complete stacking on bottom layer



Other half, the bigger size and upper portion is spread and covered on stack



Lock with zipper.



Check leakage by monitor



Carbon dioxide cylinder is connected to the bottom inlet and gas to be flushed inside.



Oxygen level/CO₂ is monitored using concentration monitor.



After 7-14 days the cocoon can be unzipped and wait till most of the CO₂ is dispersed.



Please Check and Analyze

Advantage of Carbon Dioxide fumigation

- Moisture level of the commodity remains constant.
- The commodity is not subjected to periodic insecticidal treatments with toxic chemicals during storage to control stored product pests.
- Meets requirements for the organic food market.
- The produce can be stored at ambient temperature instead of the alternative energy consuming cold storage methods where sub-zero temperatures are required to prevent insect infestations and biochemical deterioration.
- Installation demands little infrastructure.
- Cost effectiveness compared to any other forms of storage
- Commodities stored preserve a high-quality level.

Safety Measures while handling CO₂

Carbon dioxide has properties that can cause serious accidents, injuries, and even death if proper precautions are not followed. Before handling carbon dioxide or operating and maintaining carbon dioxide equipment, be sure to read and understand the safety precautions described the Material Safety Data Sheet (MSDS) for carbon dioxide. Follow the manufacturers' operating instructions.

Cautionary Advice:

- Avoid Breathing Gas.
- Store and use with adequate ventilation.
- Cylinder temperature should not exceed 125°F (52°C).
- Use equipment rated for cylinder pressure.
- Use a back flow prevention device in the piping.
- Close valve after each use and when empty.

First Aid If Inhaled:

- Take the person in fresh air.
- If problem in breathing, give respiration.
- If breathing is difficult, give oxygen and call a physician.

In case of Frostbite:

- Obtain Medical attention immediately.
-

CENTRAL WAREHOUSING CORPORATION
Pest Control Division
Public Tariff for Pest Control Services

(I) House Hold Pest Control (in Rs)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
Surface Treatment	Sq m	6.00	8.50	11.00	7.00	10.00	13.00	100 sq m
Gel Treatment(cockroach)	Sq m	18.00	25.00	32.00	19.00	27.00	35.00	50 sq m
Fly baiting	Sq m	As per Rodent baiting with different bait material.						
Bed bug treatment	Sq m	As per surface treatment with oil based.						

(II) Anti-Termite Treatment (in RS.)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
Pre-construction(3 stages)	Sq m	115	161	207	131	183	236	50 sq m
Post-construction(Internal +External)	Rm	268	375	482	284	398	511	50 Rm Internal =100sq m
Wooden structure	Sq m	As per surface treatment with oil based.						

(III) Fumigation Services (in Rs.)	Unit	NSPM		AQIS		Min. Quantity
		With AIP	With MBr	With AIP	With MBr	
Food grain	MT	14.00	--	21.00	--	100 MT
Container	TEU(40)	965	1,437	1,448	2,156	--
	FEU(91)	1,098	2,446	1,647	3,669	--
	FEU(76)	1,098	2,054	1,647	3,081	--
Aircraft	To be decided on case to case basis					
Ship fumigation						

(IV) Vector Control (in Rs)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
Larvicide	Sq m	5.00	7.00	9.00	7.00	10.00	13.00	200 sq m
Fogging	Cu m	11.00	16.00	21.00	12.00	17.00	22.00	100 cu m
Surface Treatment	As above							

(V) Weed Control (in Rs.) (03 Treatments)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
	Sq m	14.00	20.00	25.00	16.00	23.00	29.00	100 sq m

(VI) Rodent Control (in Rs.)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
Burrow Fumigation	Sq m	7.00	9.00	12.00	No premium rates			100 sq m
Poison baiting	Sq m	8.00	11.00	14.00	No premium rates			100 sq m
Glue Trap (4 traps for 100sq m)	Per trap	203	284	365	No premium rates			100 sq m

(VII) Disinfection (in Rs.)	Unit	General			Premium			Min. Quantity
		Z	Y	X	Z	Y	X	
Fogging/Ultra Low Volume Treatment(ULV)on surface	Sq m	5.00	7.00	9.00	6.00	9.00	11.00	100 sq m

*Rate is negotiable depending upon area of treatment and frequency of service.

*Tax is additional.

* X, Y, Z are class of cities.

- X Ahmedabad, Bangalore, Chennai, Delhi, Hyderabad, Kolkata, Mumbai, Pune
- Y Agra, Ajmer, Aligarh, Allahabad, Amravati, Amritsar, Asansol, Aurangabad, Bareilly, Belgaum, Bhavnagar, Bhiwandi, Bhopal, Bhubaneswar, Bikaner, Bokaro Steel City, Chandigarh, Coimbatore, Cuttack, Dehradun, Dhanbad, Durg-Bhilai Nagar, Durgapur, Erode, Faridabad, Firozabad, Ghaziabad, Gorakhpur, Gulbarga, Guntur, Gurgaon, Guwahati, Gwalior, Hubli-Dharwad, Indore, Jabalpur, Jaipur, Jalandhar, Jammu, Jamnagar, Jamshedpur, Jhansi, Jodhpur, Kannur, Kanpur, Kakinada, Kochi, Kottayam, Kolhapur, Kollam, Kota, Kozhikode, Kurnool, Lucknow, Ludhiana, Madurai, Malappuram, Mathura, Goa, Mangalore, Meerut, Moradabad, Mysore, Nagpur, Nanded, Nashik, Nellore, Noida, Palakkad, Patna, Pondicherry, Raipur, Rajkot, Rajahmundry, Ranchi, Rourkela, Salem, Sangli, Siliguri, Solapur, Srinagar, Sultanpur, Surat, Thiruvananthapuram, Thrissur, Tiruchirappalli, Tirunelveli, Tiruppur, Ujjain, Vijayapura, Vadodara, Varanasi, Vasai-Virar City, Vijayawada, Visakhapatnam, Warangal
- Z All other cities

CHEMICALS FOR PEST CONTROL SERVICES

S.N.	Chemical Name	Brand Name	Manufacturer	Target Pest	Frequency of operation	Dosage	Area covered	Chemical per m ²	Rate per Lt./Kg.	Operation cost per m ²	Operational Cost permonth (₹.) per m ²	Remark
Larvicide:- Mosquito Larvae												
1	Temephos 50% EC	Abate 50 EC/Temper	Gharda Chemical	Mosquito Larvae:Anopheles	Weekly	10 ml /ltre of water		20 ml	₹.1,500/- to1800/-	30	120	Clean water
2	Bti 12 AS	Vectobac 12 AS	Sumitomo Chemical	Mosquito Larvae: Culex & Anopheles	15 days	1 Lt. in 200 Lts. water	1 ha or 10,000 m ²	0.1 ml	₹.2,100/-	0.21	0.42	
3	Diflubenzuron 25% WP	Bio-larv/De-larv	Bayer/Gharda	Mosquito Larvae: Aedes, Culex & Anopheles	1 week	250 to 500 gm in 200 Lts. water		0.025 to 0.05 gm	₹.4,500/-	0.12 to 0.23	0.45 to 0.90	Clean & Polluted water
4	Pyriproxyfen 0.5% Gr	Sumilarv 0.5G	Sumitomo Chemical		8 weeks	2 to 4 Kg (Ready to Use)		0.2 to 0.4 gm (RTU)	₹.4,900/-	0.98 to 1.96	0.49 to 0.98	
5	Diflubenzuron 2% GR	Barcelo Gr	Bayer		Mosquito	15 Day's	1.25-3 Kg	One Hectare	One Hectare	₹ 4950/-		
6	Diflubenzuron 2% Tablet	Barcelo Tablet	Bayer	Mosquito	15 Day's	1 Tablet in 40 ltr Water	1 Tablet in 40 ltr Water	1 Tablet in 40 ltr Water	₹78/- (5 Gm Bottel contain 10 Tablet)			
Maggoticide:- Fly Maggot												
7	Diflubenzuron	Bio-larv/De-larv	Bayer/Gharda		1 week	10 gm	20 m ²	0.5 gm	₹.4,500/-	2.25	9	Apply in Poultry litters, garbage, fly breeding area, etc.
8	Pyriproxyfen 0.5% Gr	Sumilarv 0.5G	Sumitomo Chemical	Fly Maggot	4 to 8 weeks	30 gm	1 m ²	1 m ²	₹.4,900/-	147	73.5 to 147	
Adulticide:- Mosquito, Cockroach & Fly												
9	Cyphenothrin 5% EC	Gokilaht - S 5 EC	Sumitomo Chemical	Cockroach & fly	30 days	20 ml/Lt. water	20 m ²	1 ml	₹.1840/-	1.84	1.84	
10	Clothianidin 50% WDG	SUMI PRIDE	Sumitomo Chemical		30 days	1.6 gm/Lt. water	13.33 m ²	0.12 ml	₹.26,667/-	3.2	3.2	
11	Deltamethrin 2.5% SC	K-Othrine Flow/Sumistroke	Bayer/Sumitomo Chemical		15-30 days	10 ml/Lt. water	20 m ²	0.5 ml	₹.1065 to 1,720/-	0.53 to 0.84	1.06 to 2.12	
12	Beta-Cyfluthrin 2.45%	Responsar	Bayer	Mosquito, Cockroach & fly	15-30 days	20 ml/Lt. water	20 m ²	1 ml	₹.975/-	0.98	1.95	
13	Propoxur 20% EC	Rochik/Transportex	FMC/Bombay Chemical		15-30 days	25-50 ml/Lt. water	20 m ²	1.25-2.5 ml	₹.1500/- to 1950/-	1.9 to 3.75	3.8 to 7.5	
14	Cyfluthrin 5% EW	Solfac EW 50	Bayer		30 days	10 ml/Lt. water	20 m ²	0.5 ml	₹.2050/-	1.03	1.03	
15	Lambdacyhalothrin 9.7% ww	Lambda-cyhalothrin CS	Syngenta	Mosquito	30 days	12 ml/Lt. water	20 m ²	0.6 ml	₹.3600/-	2.16	2.16	
16	Imidacloprid 21% + Beta cyfluthrin 10.5% SC	Temprid	Bayer	Cockroach	30 Day's	4 ML/Ltr	10-20 sqm	0.4 ML	4100			
17	Fipronil 0.005 % (Gel)	Maxforce Forte 35 Gm	Bayer	Cockroach	30 Day's	2-3 Dots of 100 MG	1 sqm		650			
Outdoor Fogging												
18	Deltamethrin 1.25% ULV	KingFog	Gharda/Bayer			50 ml/10 Lt. diesel		0.005	₹.2,500/-	0.01	0.05	Not Approved by NVBDCP
19	Malathion Technical		HLL	Mosquito	As & when required	500 ml/10 Lt. diesel	1 ha or	0.05	₹.450/-	0.02	0.09	Approved by NVBDCP
20	Cyphenothrin 5% EC	Gokilaht - S 5 EC	Sumitomo Chemical			70 ml/10 Lt. diesel	10,000 m ²	0.007	₹.1,840/-	0.01	0.05	
21	Deltamethrin 2% EW	Aqua K-Othrine	Bayer	Mosquito	As per requirment	2.5 MI/Ltr of Water	1/10 of Hectear		4850			
Indoor Space Spray												
22	Pyrethrum 2% Extract		Bombay Chemical		As & when required	500 ml/10 Lt. oil	1 ha or	0.05 ml	₹.2,100/-	0.11	0.42	
23	Cyphenothrin 5% EC	Gokilaht - S 5 EC	Sumitomo Chemical	Mosquito		oil/water	100 ml/10 Lt.	10,000 m ²	0.01 ml	₹.1,840/-	0.02	0.07
24	Deltamethrin 2% EW	Aqua K-Othrine	Bayer	Mosquito	As per requirment	2.5 MI/Ltr of Water	1/10 of Hectear		4850			
Termiticide												
25	Fipronil 2.8 % EC	Agenda	Bayer	Termite	5 Year in Pre-Construction & 3 year in Post Construction	15-25 ML/Ltr of Oil or Water		75-125ml/sqm	1740			
26	Chloropyriphos 20% EC	Kemtrek	Sumitomo Chemical/Gharda/FMC		As per IS Specification	50 ml/Lt. water			₹.460/-			
27	Imidachlorpid 30.5% SC	Xperience/Premise	Bayer/Sumitomo	Termite		2.1 ml/Lt. water			₹.2,600 -3,836/-			Pre & Post Construction
Bedbug												
28	Propoxur 20% EC	Rochik/Transportex	FMC/BombayChemical	Bedbug	15 days	25-50 ml/Lt. water	20 m ²	1.25-2.5 ml	₹.1500/- to1950/-	3.75 to 4.88	7.5 to 9.76	
29	Imidacloprid 21% + Beta cyfluthrin 10.5% SC	Temprid	Bayer	Bedbug	2-3 Treatment on 10-12 days interwal	4 ML/Ltr	10-20 SQM	0.4 ML	4100			
30	Clothianidin 50% WDG	SUMI PRIDE	Sumitomo Chemical		Monthly	1.6 gm/Lt. water	13.33 m ²	0.12 ml	₹.26,667/-	3.2	3.2	
Storage Grain Pests												
31	Deltamethrine 2% WP	K-Obiol	Bayer	Storage Pest	60-90 Days	40 Gm/Ltr of water	33 SQM	1.2 Gm SQM	735			
32	Malathion 50% EC	KEM 750	Sumitomo/Coromondal/HIL									
33	Deltamethrin 2.5% WP	K-Obiol	Gharda	Storage Grain Pests	As & when required	120 gm in 3 Lt. water	100 m ²	1.2 gm	₹.735/-	0.88	0.88	
34	Aluminium phosphide 56%	Celphos	Sumitomo/UPL			3 tablet 150 gm	Metric Ton					
Rodenticide												
35	Glue Trap		Catchmaster/PCI						₹.60/-			
36	Bromadiolone 0.005%	Racumin Sure	Bayer	Rodents	As per requirment				360/-			
37	Bromadiolone 0.005%	Ratonil/Racumin	ACME/Bayer		As & when required				₹.327/-			Anticoagulant
38	Aluminium phosphide 6%	Fumirat	Sumitomo Chemical	Rodent		12 gm per burrow			₹.1250/-			Burrow Fumigation
39	Zinc phosphide 80%	Commando	Sumitomo Chemical			Bait of 1.5-2.5% a.i			₹.1,500/-			Acute Poison