

Standard Operating Procedure: Silo Fumigation Disinfestation Specialists

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1. Objective: Disinfestation of stored product insects inside silos

2. Method of Disinfestation :

2.1 Preventive Measures: Recommendation of cleaning practices of empty silos, connecting pipelines, elevators etc to prevent breeding and cross infestation of insects.

2.2 Curative Measures:

2.2.1 Sealing of air ventilators, grain / pulse inputs and outputs.

2.2.2 Placement of bioassay samples inside silos and fumigant concentration monitoring pipes.

2.2.3 Placement of fumigant (ALP) pouches inside silos.

2.2.3 Sealing of fumigant placement points.

2.2.4 Maintain exposure period of 7 to 10 days.

2.2.5 Remove all sealing materials and aerate for 2 hours.

2.3: Monitoring: Daily monitoring of concentration and bioassay samples after completion and aeration of silo.

3.Pesticides and other materials to be used:

Sl. No.	Pesticide Active Ingredient	Dilution Ratio
1	Aluminium Phosphide	RTU

4. Equipment's to be used

4.1 Vent Covers

4.2 Plastic Tapes

4.4 Bioassay vials

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5. Personnel Protection Equipment

- 5.1 Hand Gloves
- 5.2 Safety belts
- 5.3 Face mask with canisters

6. Do's & Don'ts

- 6.1 Do's
 - 6.1.1 Thorough sealing of air ventilators, roof and wall joints.
 - 6.1.2 Separate grain/ pulse input and output points and seal it.
 - 6.1.3 Remove all grain/ pulse inside conveyors and elevators
 - 6.1.4 Recommend proper hygiene and sanitation practices.
 - 6.1.5 Calculate volume of silo properly and dosage required.

6. Do's & Don'ts

- 6.2 Don'ts
 - 6.2.1 Don't eat, smoke and drink during treatment.
 - 6.2.2 Don't seal areas with dust over it.
 - 6.2.3 Don't apply fumigant directly on grain/ pulses.
 - 6.2.4 Don't apply any pesticides directly on grain / pulses.

7. Documentation

- 7.1 Services records should be completely filled with remarks and signatures from customer.
- 7.2 Recommendation reports should be filled.

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