

General Audit Inspection / Observation Report

Location: Hi-tech Nutrisol Pvt. Ltd

Date of Inspection: 24/09/2025

Auditor: Amit Tiwari

1. Dust Collector

- Cleaning required around dust collector area.
- Motor and wiring connections are in good condition.
- Airflow for cleaning is satisfactory.

2. Intake Chain Conveyor

- Chain cover not installed.
- Motor and gearbox functioning properly.
- Cleaning and greasing required.
- Chain tension is satisfactory.
- Check Mechanical joints ok or Not
- Check Working of limit switch

3. Jute remover

- Jute remover working properly
- Not any jamming issue

3. Intake Bucket Elevator

- Belt, bucket, and pulley are in good condition.
- Pulley adjustment is satisfactory.
- Check box positioning 90 degree with plum gauge
- Check clearance b/w Setting plate & Bucket
- Check gearbox oil level
- Check emergency switch working or not
- Zero speed Switch working or not
- Check Air ballons condition

4. Rotary Distributor

- Rotary distributor pipes and magnets need replacement.
- Pipe connections are leaking and require replacement.

5. Silos

- No leakage observed.
- High/low level sensors are operational.
- Check pneumatic vibrators working or not
- Check slide gates below silos

6. Weight Hopper

- Load cell, hopper sheet, and feeders in good condition.
- Flexible connection requires replacement.
- Weight calibration platform is satisfactory.

7. Batch Transfer Conveyor

- Conveyor box is damaged.
- Material jamming due to leakage.
- Chain is in good condition.
- Scrapers are not in good condition.
- Replacement of the entire conveyor is recommended.

8. Grinding Elevator

- No leakage observed.
- Boot, belt, pulley, bucket, motor, and bottom bearing all in good condition.
- Window glass needs to be fixed.

9. Z-Magnet

- Not functioning properly.

- Replacement required.

10. Intermediate Bin

- No leakage observed.
- Intermediate sensor is working properly.

11. Rotary Vane Feeder (RVF)

- Rotor, bearing, and motor in good condition.
- Flap and flap rod need replacement.

12. Hammer Mill

- Bearings and motor in good condition.
- Tyre coupling is in good condition, cover installed.
- Increased vibration due to worn hammer.
- Requires balancing/alignment.
- Water level needed on both vibration pads.
- Replacement of hammer bits recommended.

13. Mash Elevator

- Boot, belt, bearing, and pulley in good condition.
- No leakage in the box.
- Window glass needs to be fixed.

14. Mixer, Batch Bin & Paddle Conveyor

- Mixer body is damaged. Full replacement required.
- Batch bin needs replacement.
- Paddle conveyor is functioning well.
- Chain cover is missing — needs to be installed.
- Requires greasing on chain.

15. Pellet Bin

- Pellet bin body is in good condition.
- Duct pipe needs replacement.
- High/low-level sensor working properly.
- Check any material stuck in corner

16. Conditioner

- Chain cover not installed.
- Steam line is operational.
- Toggle clamp requires replacement.

17. Pellet Mill

- All key components (flywheel, bearings, T-shafts, toggle clamp) are in good condition.
- Daily greasing is being performed.

18. Blower

- Blower requires cleaning.
- Flexible rubber connection needs replacement.

19. Cooler

- Sensor needs replacement (not working properly).
- Cleaning of flaps required.

20. Crumbler

- Belt and chain not covered — safety concern.
- Rollers are in good condition.
- Needs thorough cleaning.
- Material should not stuck in crumbler feeder vanes

- Tighten slat conveyor.

Inspection Completed By:

Amit Tiwari

Auditor

Date: 24/09/2025

Joint Mptan Pradhan
production Manager.

Joint
24/09/25

21. Screener

- Screener and vibrator are working.
- Two-way operation functional.
- Pipeline is leaking — requires immediate repair.
- Check adjustment of material spreader at screener inlet

→ Final bagging bin (old plant)
 → Slat conveyor (Bagging)
 → Hammer Rotor - 1 pc.

22. Bagging Bin

- No leakage in the bagging bin.
- Solenoid valve not functioning — replacement required.
- Calibration OK.
- Panel display needs replacement.
- Stitching machine and belt conveyor working properly.
- Slat conveyor was loose — needs tightening.
- Cleaning required.

☑ Summary of Recommendations:

1. Replace Components:

- Damaged pipes.
- All Z-magnets.
- Flaps and flap springs of both Rotary Vane Feeders.
- Pipes of rotary distributor and silo distribution pipes.
- Mixer (recommend pneumatic slide gate model).
- Batch bin.
- Cooler sensor.
- Solenoid valve.
- Panel display (Bagging Bin).
- Heavy-duty vibrator for pellet bin.

→ Zero Speed Sensor for bucket elevator - 5 nos.

→ Spokes - 28"

→ Year box AS-60D-18210
 Code (220000114787660002)
 R3 33.4.

2. Install Missing Items:

- Chain covers (Intake Chain Conveyor, Mixer, Conditioner).
- Belt covers (Crumbler, where applicable).

→ Batch transfer conveyor box

→ RVF Flap - 2 pcs.

→ Mixer.

3. Maintenance Actions:

- Clean and grease all moving parts and mechanical components.
- Address all leakage points (Distributor, Screener, Bagging pipeline).
- Fix/replace damaged window glasses (Grinding and Mesh Elevators).
- Align and balance hammer mill.

→ Batch bin with pneumatic cylinder.

→ Z Magnets - 2 nos

→ Panel wire magnet 2 nos

→ RVF magnet - 2 nos

→ Rotary distributor pipe - 1 pc

→ Rotational Distribution, like - 5 nos

→ Solenoid valve - 1 pc

→ Panel display (Bagging)

→ Heavy duty vibrator 5 pcs.

→ Intake chain - 120 ft.
 with sprockets.