LARK ENGG. CO. (INDIA) PVT. LTD

LARK

I.T.I SASOULI ROAD, YAMUNA NAGAR, PH. 91-1732-257685, 259685

SERVICE/ VISIT REPORT

Format: LEC/P-38

Project Name : M/s Easy feed and food PVt. Ltd.	**Project Location :** Murarpur, Muzaffarpur, Bihar
Feed Plant: Poultry	**Plant** 8 to 10 TPH
Plant operation:	**If Automatic:** Automatic
Type of Call	
Name of Service Person (Lark Representative)	Amit Tiwari
Arrival at Site (Date / Time)	07/11/2025 to 15/11/2025
Departure from Site (Date / Time)	9:30 AM 12:00 PM
Customer Concern	1. Cooler Material tempreture issue 2. Pellet Mill checking
Action Taken	All the action attached as site Visit Report
Job Completion Status	Completed
Performance after completion of Job	Satisfied (✓)
General feedback/ comments	

Client Signature with stamp Representative)

Signature of Service Person (Lark

Amit 15/11/25

Note: During Service, you have to arrange lodging facility (free of cost) to our representative during their stay at your site.

SITE VISIT REPORT

Site name:- Easy feed agro pvt. Ltd.

Date:- 07/11/2025 to 14/11/2025

Complaint:-Inspection and corrective maintenance of Cooler, Pellet Mill, Crumbler, Screener, and testing of plant performance.

1. COOLER

1. Alignment of cooler slides was carried out properly.

2. Slide gaps were adjusted and made uniform.

3. Cooler sensors were checked and recalibrated.

4. Rotary spreader was reinstalled correctly.

5. The rotary plate bend was repaired and an additional support strip was welded at the bottom to prevent future bending.

6. Cooler discharge temperature was set to maintain ±5°C from ambient temperature.

7. Issue of hot material from the cooler has been resolved; cooler is now delivering properly cooled material.

2. PELLET MILL

1. The relay of the pellet mill was repaired, ensuring the motor now trips when the ampere load exceeds the limit.

2. Alignment inspection using dial gauge:

- Outer ring: 1500 microns out
- *Die: 500 microns out*
- Rear ring: 200 microns out
- Flywheel: 300 microns out
- Roll shells worn more on one side

Corrective Actions Taken:

- Rear ring replaced and aligned to 200 microns.

- Die alignment improved to 350 microns.

- Outer ring improved to 1000 microns.

- Bubbling issue reduced significantly.

- Roll shells replaced.

3. CRUMBLER

- Rollers were 75% worn out causing uneven crumbling. Replacement recommended.

4. SCREENER

- Both screens replaced with 18 mesh for better uniformity.

5. PLANT OUTPUT TRIALS

Starter Feed Trial:

- Recycle: 60 kg/min

- Production: 7.5 TPH

- Feeder: 1300–1400 RPM

- Load: 240–260 amps

Pre-Starter Feed Trial:

- Recycle: 81.6 kg/min

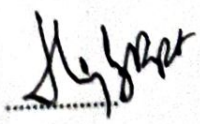
- Production: 6.87 TPH

- Feeder: 1250–1300 RPM

- Load: 240–260 amps

CONCLUSION:

All major mechanical issues were identified and resolved across the cooler, pellet mill, crumbler, and screener. Production is now stable with improved cooling and pelletizing performance. Monitoring and timely replacement of worn-out parts (especially crumbler rollers) is advised.



Client Signature

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Checklist for Pellet Mill and Cooler, including general parameters and key inspection points

Format No: LEC/P-105

Customer Name: **Date:** 11/11/25

Plant:

1.) Product Type

Pellet ( ) Layer/Broiler (Broiler)

Prestarter/Starter/Pellet Crumbs/Finisher Pellet (Premium starter)

2.) Feed Formulation

Recipe Name: HR-SC 05/11/25

Item. No.	Material Name	Qty (Kg)
1	Maize	644
2	Soya	232
3	DORB	13.890
4	MBL	20
5	DDGS	20
6	MBB	30
7	LSP	10
8	Oil and Medicin	9,50. 9 20.15
9	DCP	0,50
10		
11		1000.05 Kg
12		

3.) Basic Plant Parameters

Sr. No.	Parameters	Req Parameter	Value
1	Plant Input Voltage (V)	420-440V	400 – 405 V
2	Steam Pressure at Boiler (Bar)	9-10Bar	8.5 bar
3	Steam Pressure at Before PRV (Bar)	9-10Bar	8 bar
4	Steam Pressure at After PRV (Bar)	2.5-3Bar	2.5 bar
5	Steam quality (Any wetness in steam)	Dry	Dry
6	Water level at Boiler (Mobrey Setting)		70 %
7	Boiler Make/Capacity/ Firing Type		Sun / 1.5 Tonne / Wood

4.) Hammer Mill Parameters

Sr. No.	Parameters	Req Parameter	Value
1	Rotary Vane Feeder Initial Start-UP RPM (RPM)	Min 500RPM	500 RPM
2	Ampere taken by hammer mill on No Load (A)-40% of HP		68 – 70 amp.
3	Max. Ampere taken by hammer mill on Load (A)-1.25x HP		170.8 amp.
4	Time taken by hammer mill to attain full current load (Sec)		35 Sec
5	Grinding Time (Seconds)		270 – 296 Sec
6	Max Rotary Vane feeder RPM	1700 – 1800	~~1700 – 1800~~ RPM
7	Grinding Texture for 1Kg Sample (below 500micron, between 500mic-1mm)		
8.	Screen Size		

5.) Grinding time V/s Rotary Vane Feeder Parameters

Batch No	Grinding Time (Seconds)	Batch Qty (Kg)
1	296 Sec	1 Tonne
2	316 Sec	1 Tonne
3	298 Sec	1 Tonne
4	302 Sec	1 Tonne

	294 Sec	1 Tonne

eters

	Parameters	Recommended value	
	Overall Mixing Time (Seconds)	240Sec 300	[redacted] Sec
2	Dry Mixing Time (Seconds)	60Sec	100
3	Wet Mixing Time (Seconds)	180Sec	[redacted] 200

7.) Pellet Mill Parameters

Sr. No.	No Load Parameters	Actual Value
1	Pellet Die (Hole Size; L/D ratio	3.5 X 35 X 50
2	Gap Between Roll Shell & Die	0.1 to 0.3 mm
3	Alignment of motor with respect to pulley	fine
4	Check tension in belt	fine
5	Check for tightness of motor nut & Bolts	OK
6	Check for gap between feeding pipe & SS drum for any leakage	Not any
7	Check for the outness of Rear Ring with dial gauge	
8	Check for the outness of Pellet Die with dial gauge	
9	Check for the outness of Front Ring with dial gauge	
10	Check for the outness of Flywheel with dial gauge	
11	Play observed in Holder	

Sr. No.	On Load Parameters	Actual Value
1	Pellet Feeder RPM at which Mill is continous running	1100 – 1300
2	Ampere taken by pellet mill on No Load (A)	97 – 105 A
3	Max. Ampere taken by pellet mill on Load (A)	
4	Time taken by pellet mill to attain full current load (Sec)	10–15 min.
5	Abnormal Sound in pellet mill	Not any
6	Check for vibration level	Normal
7	Check for pellet length	8–10 mm
8	Pellet output/Hour	
9	Temperature Maintained at Top Conditioner	
10	Temperature Maintained at Middle Conditioner	
11	Temperature Maintained at Bottom Conditioner	

.) Moisture Parameters

Sr. No.	Parameters	Value
1	Feed Moisture (after grinding)	
2	Mash Feed Moisture (after mixing)	
3	Mash Feed after conditioning	
4	Pellet Feed (After Pelleting)	
5	Pellet feed after cooling	
6	Pellet feed at Bagging	

9.) Cooler Parameter

Sr. No.	Parameters	Value
1	Level of Main Sensor from base as per cooling of feed	725 mm
2	Level of extra sensor from base	
3	Any leakage in blower ducting	
4	Check for discharge gate stop as per the limit switch position	
5	Check for uniformity of bed level	
6	Working of Rotary Spreader for bed level Uniformity	
7	Rotary Spreader horizontal rotating shaft height from base	
8	Working of Limit Switch at Cooler window (Stop Spreader)	
9	**Setting of discharge gate (triple grid position)**	

	b/w Fixed & Middle slide at all Sides
	p b/w middle & bottom slides all Sides

der formation

	Parameters	Value
	Dust/ Powder formation in 1Lot (Time 30Sec) after screening	30.3 Kg (30 Sec)
2	Dust/ Powder formation after crumbling (In 1Kg material, Manual Screen)	
3.	Screen (Mesh)	18 Mesh both Sides

11.) Power Consumption

Sr. No.	Parameters	Value
1	Type of Feed (Pre-starter/ Starter/ Crumbs/Finisher)	Starter
2	Energy consumed /hour	33.1 unit | Ton
3	Feed produced/hour	7.5 Ton Per hour
4	Power Consumption	1192 Kwh

12.) Plant Output

Sr. No.	Parameters	Value
1	Type of Feed (Pre-starter/ Starter/ Crumbs/Finisher)	Starter
2	Total Feed produced	36 Ton
3	Plant Running Duration	4 hr 48 min.
4	Plant Output	7.5 Ton Per hour

13). Batching Accuracy

Weigh Hopper Calibrated	~~Cali~~ Not checked
Batch Size	1 Tonn
Total Batching Time for 1 Batch	160 Sec.
Set Weight	909
Actual Weight	910.3
Batching Accuracy (Required Less than 0.25% of batch size)	0.14 %

14). Bagging Accuracy

Bag Weigh Hopper Calibrated	Not checked
Batch Size	50 Kg
Total Batching Time for 1 Batch	6 bag in 1 minute
Set Weight	50 Kg
Actual Weight	49.90
Batching Accuracy (Required Less than 0.25% of batch size)	0.2 %

15.) Observations

Mechanical

Sr. No.	Observations	Remarks
1	Vibration level at Hammer Mill	Not any
2	Vibration level at Pellet Mill	Medium
3	Vibration level at Plant Structure	Normal
4	Vibration level at Blower	Normal
5	Any Jamming Issue	Not any
6	Dust Level in plant	Medium
7	Noise Level in Plant	Medium
8		

Electrical

Sr. No.	Observations	Remarks
	Overload Relay working	Working
	Interlocking of machines	interlocked

Safety Points

Sr. No.	Observations	Remarks
1	All Belt & Chain Covers	Covered
2	Loose connection & Open wire	Not any
3		
4		
5		

Action to be taken

1. Change mesh is screences both (18 mesh).
2. Advice to change worn Role shell.
3. Advice to change Crumbles Roller.
4. Advice to use die as per recipe schedule.

Observed By 11/25

Amit Tiwari (Site Engineer)

Report Handover to

Pellet Mill timing

Start	Stop	Reason	Run Timing
12:30	2:39	due to die slipage —	129 minute
2:50	3:16	Power cut —	26 minute
3:20	3:40	Power cut —	20 minute
3:42	4:13	Bagging bin full —	31 minute
4:25	5:38	—	73 minute
5:56	6:05	Recycle —	9 minute
			288 minute

Total 4 hours 48 minute.