



उत्तर प्रदेश प्रदूषण नियंत्रण बोर्ड E-mail
UTTAR PRADESH POLLUTION CONTROL BOARD

संदर्भ संख्या-

H/40156

/C-4/NGT-9/2019

दिनांक- 19-8-19

To,

Registrar,
Hon'ble National Green Tribunal,
New Delhi.

Subject: - Inspection report in compliance of order dated- 24.05.2019 passed by Hon'ble NGT in OA No- 348/2017 & EA No- 58/2018 Shailesh Singh vs Al-Dua Food Processing Pvt. Ltd., & Ors.

Sir,

With reference to above subject the joint inspection report is being uploaded for further necessary action in compliance of order dated- 24.05.2019 passed by Hon'ble NGT in OA No- 348/2017 & EA No- 58/2018 Shailesh Singh Vs Al-Dua Food Processing Pvt. Ltd., & Ors.

Regards

Enclosure- As above.

(R.K. Singh)

**Chief Environment Engineer,
Circle-4**

JOINT INSPECTION REPORT
By
Central Pollution Control Board , Delhi
and
Uttar Pradesh Pollution Control Board , U.P.

Sub : Joint Inspection of Al-Dua Food Processing Pvt. Ltd., Vill. Amarpur Kondla, Tahseel Koli, Mathura Bypass Road, Aligarh, U.P.

Ref :

1. Hon'ble NGT order dated 24.05.2019 in the matter of O.A.No.765/2017 (Earlier O.A.No.348/2017) Shailesh Singh Vs Al-Dua Food Processing Pvt. Ltd., & Ors.
2. Execution Application No. 58 of 2018 in OA No. 348 of 2017.

Background

Hon'ble NGT vide order dated 24.05.2019 in E.A.No.58/2018 in OA No 348/2017 in the matter of Shailesh Singh Vs Al-Dua Food Processing Pvt. Ltd., directed as follows:

" We may add that no industry can be permitted to dispose treated effluents on land for irrigation, plantation or horticulture/gardening by prescribing standards applicable without assessment of adequate availability of land and impacts of such disposal on 3 agricultural/crops/plants and the recipient ground water. Impact of precipitation levels also needs consideration while granting such approvals. ZLD needs to be considered with respect to use of effluents in the industrial processes not in terms of its disposal on land or farm. Therefore, the CPCB needs to look into this aspect with the help of experts and issue appropriate guidelines in this regard. This aspect may also be covered in the report to be submitted in the present case."

INSPECTION DETAILS

- Accordingly, a team of Officials from CPCB and UP PCB jointly inspected the industry on 17.06.2019. The details of joint inspection are as follows :

Al-Dua Food Processing Pvt. Ltd., Vill. Amarpur Kondla, Tahseel Koli, Mathura Bypass Road, Aligarh, U.P (slaughter house cum frozen meat export unit), Unit , Vill. Amarpur Kondla, Tahseel Koli, Mathura Bypass Road, Aligarh, U.P (referred as 'the Unit') has infrastructure for production of frozen boneless buffalo / goats meat, poultry feed supplement (PFS), tallow and blood meal. UP PCB has granted consent for slaughtering of the following :

- ✓ 2000 big animals (buffalos) per day
- ✓ 3000 Small animals (Goat/Sheep) per day.

Observations and findings

The Unit was inspected on 17.06.2019 and all the processes were found in operation. It was observed that slaughtering of only big animals is being carried out. Other observations are as follows :

✓

General Information																				
1.	Raw material	Live Buffaloes, Goats and Sheeps.																		
2.	Products/ Byproducts	Frozen boneless buffalo / goats meat, poultry feed supplement (PFS), tallow and blood meal																		
4.	Present Slaughtering Frozen Meats	As per the data provided by the unit for April,19 to May 19, details are as follows : <table border="1" data-bbox="694 405 1347 533"> <thead> <tr> <th>Month</th> <th>Buffaloes (No.)</th> <th>Bonless (MT)</th> <th>Offals (MT)</th> <th>Tallow (MT)</th> <th>PFS (MT)</th> </tr> </thead> <tbody> <tr> <td>April,19</td> <td>30094</td> <td>3991</td> <td>499</td> <td>422</td> <td>727</td> </tr> <tr> <td>May,19</td> <td>30175</td> <td>4227</td> <td>562</td> <td>423</td> <td>734</td> </tr> </tbody> </table> <ul style="list-style-type: none"> • Max Slaughtering - 04.04.2019 1728 Nos of Buffaloes • Max Slaughtering - 04.05.2019 1851 Nos of Buffaloes • Minimum Slaughtering - 16.04.2019 476 nos of Buffaloes • Minimum Slaughtering - 29.05.2019 633 nos of Buffaloes <p>On the Day Inspection 1189 nos of Buffaloes</p>	Month	Buffaloes (No.)	Bonless (MT)	Offals (MT)	Tallow (MT)	PFS (MT)	April,19	30094	3991	499	422	727	May,19	30175	4227	562	423	734
Month	Buffaloes (No.)	Bonless (MT)	Offals (MT)	Tallow (MT)	PFS (MT)															
April,19	30094	3991	499	422	727															
May,19	30175	4227	562	423	734															
5.	Rendering Unit Production	PFS- May 2019 Production 734 MT Blood meal- To mix with MBM to increase the proteins Tallow - May 2019 Production 423 MT																		
Information pertaining to water consumption and wastewater generation																				
6.	Freshwater source & consumption (kl/day)	As per records maintained by the unit , the consumption details are as follows : ✓ Average groundwater extraction 562 KL/day which includes 6 KLD (approx..) for domestic purposes (as per log book provided by the Unit).																		
6a.	Bore-wells	Bore wells: 3 Nos. (Water Meter installed in all three Bore wells).																		
6b.	Status and type of Water-meters.	Yes, all the three bore wells are equipped with mechanical water meters.																		
6c.	Status of CGWA permission for extraction of ground water .	Yes. Permission from CGWA has been obtained for extraction of 1240 m ³ /day of ground water from all the 3 bore-wells and it is valid upto 15.10.2019 . Copy annexed.																		
7.	Consented wastewater discharges	Industrial - 1200 KLD Domestic - 06 KLD																		
8.	Present treated water discharge	373 m ³ /Day (as per OCEMS reading i.e. 15.521 m ³ /hr)																		
9.	ETP details	<ul style="list-style-type: none"> ✓ Design capacity of ETP - 1500 KLD . ✓ ETP is having two stage Aeration system followed by Tertiary treatment (ACF and PSF). ✓ Primary treatment includes Physical treatment and Physico-chemical treatment. ✓ Secondary treatment is biological treatment based on Activated Sludge Process 																		

	and ✓ Tertiary treatment includes filtration units.										
10.	Quantification of Effluent generation	✓ Unit has also provided electro-magnetic flow meter at the outlet of ETP integrated with OCEMS.									
11.	Hide storage area	✓ Dedicated area is provided for storage / preservation of hides.									
12.	Mode of Effluent disposal	Treated effluent is being used for gardening, washing, cooling towers, sprinkling in dusty and around unit by tankers and irrigation purpose for which unit has own agricultural fields having an area of 67.0 Bigha based on Kernel technology.									
13.	Status of Consent under the Water (P&C of Pollution) Act , 1974.	Consent is granted by UPPCB which is valid up-to 31.12.2019.									
14.	Status of OCEMS	The Unit has installed OCEMS for all the requisite parameters i.e. pH, TSS, BOD, COD and flow, which was found operational.									
15.	Odour Control	Unit has provided Bio filter to suppress the odour from rendering plant.									
Information pertaining to Air Pollution											
17.	Source of Air Pollution, details of fuel and status of APCDs	<p><u>Boilers</u> The Unit has two boilers of capacity 6 TPH each. Wood, Ingesta (dried dung) is used as fuel in the Boilers. These Boilers are equipped with multi-cyclone as Air Pollution Control devices (APCDs). Flue gases as discharged into the atmosphere through common stack of height 33 mtrs provided with platforms and porthole for stack monitoring.</p> <p>The Unit has provided mechanized ingesta drying plant which uses steam for ingesta drying. The dried ingesta is used as fuel.</p> <p>Details of DG sets are as follows:</p> <table border="1"> <thead> <tr> <th>DG sets capacity</th> <th>Acoustic enclosures (Y/N)</th> <th>Chimney (Y/N)</th> </tr> </thead> <tbody> <tr> <td>4 x 500 KVA</td> <td>Yes</td> <td>Yes</td> </tr> <tr> <td>1 x 1000 KVA</td> <td>Yes</td> <td>Yes</td> </tr> </tbody> </table>	DG sets capacity	Acoustic enclosures (Y/N)	Chimney (Y/N)	4 x 500 KVA	Yes	Yes	1 x 1000 KVA	Yes	Yes
DG sets capacity	Acoustic enclosures (Y/N)	Chimney (Y/N)									
4 x 500 KVA	Yes	Yes									
1 x 1000 KVA	Yes	Yes									
18.	Status of Consent under the Air (P&C of Pollution) Act, 1981.	Consent is granted by UPPCB which is valid up-to 31.12.2019.									
Information pertaining to ETP sludge											
19.	Quantity of ETP sludge generated	1.0-1.5 TPD at maximum capacity.									
20.	Nature of waste	Organic.									
21.	Facility for storage/ disposal /treatment	The Unit informed that ETP sludge is sold as manure. The Unit has obtained authorization under the									

2

Overall Observations:

1. The Unit was found in operation.
2. The Unit is meeting fresh water requirement through bore well provided with mechanical water meter and maintaining records of fresh water consumption. The Unit has obtained NOC for groundwater extraction from Central Ground Water Authority (CGWA) having validity upto 15.10.2019. The industry has installed water-meters in all the 3 bore-wells.
3. The ETP was found in operation. The Unit has installed an ETP having capacity to treat approx. 1500 KLD of waste water. The effluent treatment plant comprise of following treatment units:
 - a) Rotary Drum Screen - 2 nos. having capacity of 100 m³/hr each.
 - b) Equalization tank (provided with air diffusers) - 02 nos.)
 - c) Primary Clarifier - 01 no.
 - d) 1st Aeration tank (diffused aeration - 34 lines with 3 nos. of 50 hp motors)
 - e) Secondary Clarifier - 01.
 - f) 2nd stage Aeration tank - (diffused aeration - 27 lines with 3 nos. of 25 hp motors).
 - g) Secondary Clarifier - II.
 - h) Sand & Activated Carbon Filter
 - i) Filter Press (for sludge dewatering) New Volute Machine capacity 6-7 ton/day has already been installed for sludge dewatering.
4. Alum is used for primary treatment and daily records of chemical consumption were maintained.
5. The Unit is using the treated water for irrigation purpose through underground pipe-network, which is 100.mtrs (approx.) away from ETP.
6. During inspection, all ETP units were found in operation. Grab samples (4 nos.) were collected from inlet, aeration tank 1, outlet of ETP by UPPCB in the presence of joint team and were analysed in laboratory of UPPCB. The treated water is being used for irrigation through Karnal technology. The analysis results are presented below:

Sampling Location	Parameters					
	pH	SS (mg/l)	BOD (mg/l)	COD (mg/l)	O&G (mg/l)	MLSS (mg/l)
ETP inlet	7.32	734.0	454.0	1522.0	87.0	-
Aeration Tank 1	-	-	-	-	-	2455.0
ETP outlet	7.89	29.9	22.0	182.0	8.0	-
Quality of treated water being used for irrigation	7.58	19.7	18.0	128.4	-	-
OCEMS values (during inspection)	8.17	11.9	11.0	107.3	-	-
Notified Standards by MoEFCC	6.5-8.5	50	30	250	10.00	-

7. The Unit is found complying all parameters with the notified standards.
8. The Unit has provided OCEMS for all parameters: pH, TSS, BOD, COD and flow and it was found operational during the visit.

B

9. Sludge generated from primary and secondary treatment was being dewatered using sludge filter press and a room is provided for storage of the dried sludge.
10. During inspection, all the boilers were found in operation and emissions are channelized through stacks of height 33m.
11. The unit has installed a Volute Press Model (sludge dewatering machine) for further up gradation of ETP and found in operation.
12. All DG sets are equipped with acoustic enclosures to control noise.
13. The housekeeping of the Unit was found satisfactory.

Recommendations :

- i. Industry should engage CLRI Chennai for Environmental Audit of the plant including ETP performance evaluation and to study impact of treated discharge for irrigation.
- ii. The discharge of the effluent should be ensured in accordance with the prescribed standards.
- iii. The unit should submit the irrigation plan, which is duly approved or authenticated by the Agriculture University or the Irrigation Department of State Government.
- iv. The unit should carry out the calibration of the OCEMS, on regular basis and inform to CPCB & UPCCB.
- v. Flow meter should also be installed at the inlet of pipe line, through which the effluent is being passed for irrigation area and maintain logbook.

Note: An Expert Group to prepare the guidelines on Zero Liquid Discharge (ZLD) aspects and to finalize the usage of treated water for irrigation purpose has been constituted. The first meeting of the group was held on 07.08.2019 at CPCB, Delhi. The guidelines are expected to be completed by the 2nd week of September 2019.


[B.D. Sharma]
(AEE, UPCCB)


[Y. N. Mishra]
(Scientist 'C', CPCB, Delhi)