

**GUJARAT POLLUTION CONTROL BOARD
REGIONAL OFFICE-PALANPUR, DIST-BANASKANTHA, GUJARAT**

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GUJARAT POLLUTION CONTROL BOARD

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(Regional office-Palanpur)

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Action Taken Report

Subject:- Hon. NGT Matter No. OA 108/2019(WZ) (I.A. No-162/2020) in the Principal Bench, New Delhi– Gangarambhai Narsinhbhai Karnavat Vs. Stagot Potatoes Products LLP &Ors.

Reference:- 1. Hon'ble NGT order dated 26/06/2020

2. Hon'ble NGT order dated 28/09/2020

1. M/S Stagot Potatoes Products LLP, Survey No. 675/1, At – Sundha, Ta – Palanpur, Dist – Banaskantha was inspected on 04/07/2020 with reference to Hon'ble National Green Tribunal, Principal Bench, New Delhi in O.A.No.108/2019(WZ) (I.A.No-162/2019) Gangarambhai Narsinhbhai Karnavat Vs. Stagot Potatoes Products LLP &Ors. order dated 26.06.2020 directed Regional Officer, State Pollution Control Board to visit the place and submit factual and action taken report to the Hon'ble court. The Regional Office, Gujarat Pollution Control Board, Palanpur has submitted Action Taken Report to the Hon'ble NGT, ngt-pune@gov.in, judicial-ngt@gov.in, ngt.filing@gmail.com along with the copies of (a) Inspection reports (b) Directions issued to the industry (C) Bank guarantee forfeit letter (d) Consent to operate order of unit (e) Analysis report of Bore well samples through E-mail on dated 22.09.2020.

Again the Hon'ble courts order on dated 28.09.2020 the Regional Officer, State Pollution Control Board is directed to monitor further and submit action taken report to the Hon'ble NGT. Shri M.S.Dasari (Regional Officer), Shri N.P.Chaudhary (Sr. Scientific Assistant), Regional Office, Gujarat Pollution Control Board, Palanpur, Gujarat was visited the industry on 08/10/2020 and it was found totally closed and no smell/odour was felt in around the factory. Copy of the visit/inspection report is **Annexure-A** The person contacted informed that the production plant was totally closed due to nonavailability of raw materials. On dated 13/10/2020 the industry has submitted a letter stating that the last production was taken on 09.07.2020 for 22 Hrs in operation than after there was no production has been taken till date. The next expected production will be in the month of January-2021. Copy of the letter dated 13/10/2020 is **Annexed-B**.

2. Again the unit was visited on 07/11/2020 by the Regional Officer, Shri.M.S.Dasari and Shri T.A.Trivedi, Scientific Officer, Regional Office, Gujarat Pollution Control Board, Palanpur, Gujarat, the industrial plant is found totally closed due to nonavailability of raw materials (Potatoes). No smell/odour was felt in and around the industry.
3. Permissions given to M/S Stagot Potatoes Products LLP:
M/S Stagot Potatoes Products LLP, Survey No. 675/1, At – Sundha, Ta – Palanpur, Dist – Banaskantha, Gujarat has obtained Consent to Establish (CTE) from Gujarat Pollution Control Board for manufacturing of Starch from Potatoes @ 1080 MT/M vide CTE No – 77473, dated – 28/03/2016. Further the unit was granted Consent to Operate vide letter dated 08/04/2019 up to 30/06/2022 to operate industrial plant for manufacturing of starch from potatoes. Subjected to the conditions specified in the order.



The map shows the nearest village is Sundha @500meters away from unit and the other side of the unit/Plant area are agriculture land/fields. The village school is also beyond the 500 meter from the location of the unit/plant.

4. Manufacturing process

The raw material potatoes washing with water to remove coarse particles and sand, then after the potatoes are crushed in a Rasping machine till it becomes potato slurry is a mixture of starch granules, fiber and water. The potatoes slurry is then fed to hydro cyclone machine where the starch particles, fibers and water part (i.e. process effluent) are separated. Starch with moisture content is then fed to spin flash dryer to get final product, i.e. white starch powder. Entire process cycle time is about 22 hours.

5. Source of waste water/fibre waste generation: At full capacity of plant

- a) Washing of potatoes – 25 KL/D (Diluted stream)
- b) Process waste water (Concentrated effluent stream) –275KL/D(Waste water seprated from hydro cyclones). Total waste water generation- 300 KL/Day.
- c) Fibre waste – Approx. 7MT/Day (Fiber separated from hydro cyclones)

6. Treatment of Waste Water

The waste water generated from the washing section of the raw material is being directly collected in collection tank, another waste water stream generated from process after removal of the fibre content in the decanter is being sent to collection tank for further treatment. The industry has provided Effluent Treatment Plat consisting of following units.

- Collection tank
- Flash Mixer (Not in use)
- Flocculation Tank (Not in use)
- Primary Clarifier (Not in use)
- Conditioning Tank
- Anaerobic digester(CSTR- 2 nos)
- First stage Aeration tank
- First stage Secondary settling tank
- Second stage Aeration tank
- Second stage secondary settling tank
- Treated waste water holding tank
- Sand filter (Not in use)
- Carbon filter (Not in use)
- Decanter

7. Disposal of Treated waste water Treated waste water from the ETP is discharged onto the agricultural farms of 42 Acres through underground pipeline surrounding the units. Unit has made MoU with Farmers.



Treated wastewater disposal agriculture land @ 1.2 Km away from factory/industry

Treated wastewater disposal agriculture land adjoining to the factory/industry

8. Management of Fiber Waste & ETP Sludge:

The fiber waste is generated from the manufacturing process, which is supplied through tankers to M/s Goverdhan nathji Energies LLP, Vill-Pij, Ta-Vaso, Dist-Nadiad, Gujarat which is Bio Gas generation plant. The sludge generated from the Effluent Treatment Plant is also being disposed along with fiber waste. At the time of visit, no stock of fiber waste and ETP sludge are observed stored in the unit. Month wise quantities of fiber waste send to M/s Goverdhan nathji Energies LLP are shown below.

Month	Fiber Waste sent to M/s Goverdhannathji Energies LLP (Quantity in MT)
January-2020	Nil
February-2020	50
March-2020	130
April-2020	Nil
May -2020	Nil
June -2020	300
July-2020	Nil
Aug-2020	Nil
Sept-2020	Nil
Oct-2020	Nil

9. Air Pollution:

Unit has one boiler having capacity of 2 TPH, using imported coal as a fuel. Unit has provided Dust collector (Multi Cyclone Separator) as Air Pollution Control Device. Unit has also provided stack monitoring facility. There is no process emission from the manufacturing process. As no activity other than unloading of potatoes is going on, noise level is the industry is found normal during the visit.

10. Odour control Management:

The industry has provided fogger system for control of odour. In fogger system the industry is using Rose Fragrance Liquid (1 Liter in 1000 Liter of Water) for continues spraying on the top of Anaerobic reactor/Digester. Industry has also provided Decanter to remove/ reduce/minimize fibre particles from process waste water before entering in to effluent treatment plant collection tank so that there should not be any septic condition in the collection tank.

11. Quality of Ground Water:

The industry has provided one number of bore well within the premises and entire fresh water requirement of industry is met by the bore well water. Bore wells are also there in the surrounding farms. Physical characteristics of the water abstracted from the said bore wells is apparently normal.

- a) Four no of ground water sample are collected by the Regional office palanpur on dated 04/07/2020 from following points. The results are as under.

Parameters	GPCB prescribed standards in consent order	Locations			
		Borewell located within M/S Stagot Potatoes Products LLP unit 1	Borewell sample collected from nearby borewell toward south side of stagot potato unit 2	Borewell sample collected from nearby borewell towards North side of stagot potato unit, which is about 200 m away from the unit 3	Borewell sample collected from borewell located within agreement agricultural land, which is about 1.1 Km away from the unit. 4
pH#	6.5 to 8.5	7.44	7.79	7.20	8.34
Total Dissolved solid (TDS) mg/l	2100	758	1170	728	866
Chloride mg/l	600	90	300	110	140
Sulphate mg/l	1000	55	168	78	63
COD mg/l	100	7	11	14	6
BOD (3 days at 27 C) mg/l	30	0.75	0.72	1.42	0.89
Sodium Absorption Ratio (SAR)	26	7	12	7	12

- b) Two ground water samples are collected during the visit by the vigilance team, GPCB, Gandhinagar on dated 17/07/2020 from the following sources, The results are as under.

Parameters	Locations		
	GPCB prescribed standards in consent order	Bore well located within premises of M/s Stagot Potatoes Products LLP (800 Ft) 1	Bore well water sample located in the farm of Shri Ambarambhai P Gothi toward south side behind unit. (500 Ft) 2
pH#	6.5 to 8.5	7.37	7.52
Total Dissolved solid (TDS) mg/l	2100	674	1318
Chloride mg/l	600	120	460
Sulphate mg/l	1000	202	151
COD mg/l	100	6	9
BOD (3 days at 27 C) mg/l	30	0.68	0.8
Sodium Absorption Ratio (SAR)	26	8	18

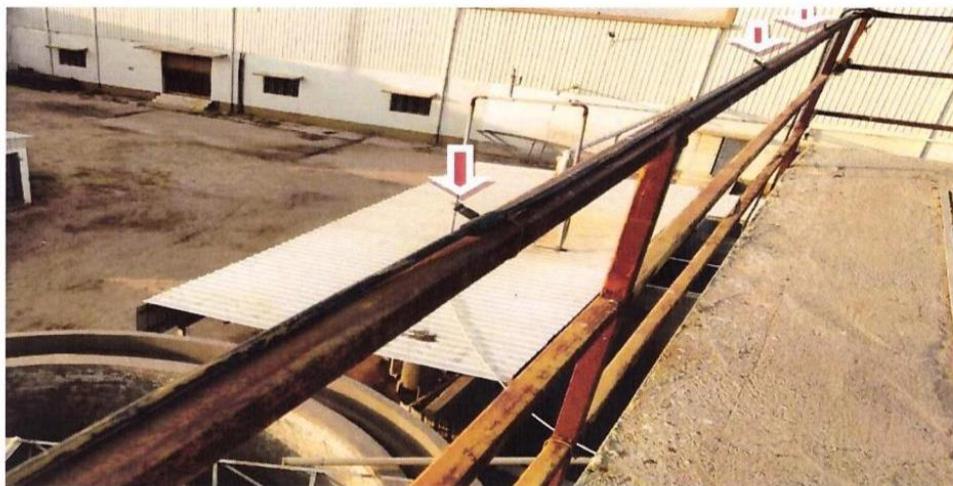
The analysis reports of water samples of bore wells, all parameters are within GPCB prescribed norms as mentioned in Consent order.

12. Action taken by Gujarat Pollution Control Board sofar for non compliance of the conditions specified in the consent order are as under: **335**

Sr.No	Date of Inspection	Action taken
1	21-22/08/2017	Directions under section 33 A of the water act – 1974 for disconnection of power supply
2	26/12/2017	Directions under section 33 A of the water act – 1974 for disconnection of power supply
3	28/03/2019	Directions under section 33 A of the water act – 1974 for disconnection of power supply
4	28/03/2019	Forfeit of Bank Guarantee of amount Rs 250000/-

13. Photographs showing effluent treatment plant units found empty at the time of visit on 07/11/2020





Photographs showing Fogger System on Anerobic Digester

14. The following suggestions/written remarks given to the industry on 07/11/2020 to control odour/smell.
- Potatoes fiber should be disposed off within 24 Hrs from the factory to Bio Gas Plant.
 - Effluent primary collection should be empty after the production batch is completed by transfer the effluent in to Anaerobic Digester/Reactor so that the to avoid septic condition of effluent in the collection tank.
 - The effluent collection tank should be covered completely to control odour/smell before starting the production.
 - Increase fogger system in ETP area and operate efficiently and also provide fogger system along the periphery of the factory before starting the production.
 - Operate effluent treatment plant efficiently and improve effluent handling system to minimize leakages.
 - Monitor VOC's in the factory premises and submit report to the board after starting the production.
 - Plant more trees along the periphery of the factory.

Date:- 07/11/2020
Place:- Sundha, Palanpur


T.A.Trivedi
Scientific Officer


M.S.Dasari
Regional Officer

Inspection Report

Name and Adrees of the unit:- M/S Stagot Potatoes Products LLP, Survey No. 675/1, At Sundha, Ta-Palanpur, Dist-Banaskantha.

Date of visit:- 08/10/2020

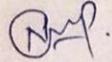
Person contacted:- Mr. Vipul Gothi (Manager)

Visited by:- 1. M.S.Dasari (Regional Officer) 2. N.P.Chaudhary (Sr. Scientific Assistant).

Observations:-

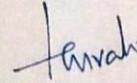
M/S Stagot Potatoes Products LLP (PCB ID: 49934) was visited on dated 08/10/2020 w r t Hon'ble National Green Tribunal, Principal Bench, New Delhi in O.A No. 108/2019 (WZ) – order dated on 28/09/2020 Gangarambhai Narsinhbhai Karnavat Vs. Stagot Potatoes Products LLP & Ors. During visit unit is found not in operation. Person contacted informed that the plant is totally shut down from July-2020 due to non-availability of raw materials. ETP was found idle condition. No smell was felt in and around the factory premises. The following instructions issued at the time of inspection.

1. At present your production plant not in operation. Whenever start the production inform to the Board.
2. Whenever start the production plant all deodorant system should be in operation efficiently to control odour/foul smell .



(N.P.Chaudhary)

Sr. Scientific Assistant).



(M.S.Dasari)

Regional Officer



Stagot Potatoes Product LLP

DATE :- 13/10/2020

To,
Regional Officer
Gujarat Pollution Control Board,
Jilla Seva Sadan – 2, Third Floor,
Jorawar Palace,
Palanpur-385001.

Subject: - Production status

Respected sir,

We are informing the production Status of STAGOT POTATOES PRODUCT LLP- SUNDHA, TA-PALANPUR, That the last production was taken on 9th of July-2020 For 22 hrs, After that no production has been taken place due to raw material short fall.

The next expected production will be in January ²⁰²¹. However in case we found raw material before that than we will inform to the board prior to production.

This information has been given to the board of production status.

Regards

Thanking you



NGT- Bk
Jurnal

For, Stagot Potatoes Product LLP

Partner
Partner

74, Shree Arcade, Abu Highway, Palanpur - 385001, Dist. B.K., Gujarat, India.