Order No. 2204/APPCB/UF-II/TF/NLR/2016- \[\text{OIC} \] Date: 01.03.2017

**DIRECTIONS**

Sub: APPCB – UF-II – TF – M/s. Bhagiradha Chemicals & Industries Ltd., Cheruvukommupalem, Ongole (M), Prakasam District. – Complaint received against the industry regarding smell nuisance and polluted the ground water causing health problems - Non-compliance of Board directions and consent conditions – Legal hearing held on 04.02.2017 - Directions - Issued - Reg.

4. Complaint received through MoE&F, New Delhi filed by Shri Y.V. Subba Reddy, Hon'ble Member of Parliament (LOK SABHA) against the industry.
6. External Advisory Committee (Task Force) meeting held on 04.02.2017.

**WHEREAS** you are operating a pesticide manufacturing industry in the name & style of M/s. Bhagiradha Chemicals & Industries Ltd., at Cheruvukommupalem (V), Ongole (M), Prakasam District.

**WHEREAS** vide references 1st cited, the Board issued Consent for Operation to the industry on 21.04.2015 to manufacture Pesticides products and liquid formulations (Group-A – 5 Nos. – 13.2 TPD and Group-B – 13 Nos. – 65 KLD), which is valid up to 28.02.2018.

**WHEREAS** vide references 2nd cited, the Board received public complaint from Sri Y.V. Subba Reddy, Hon'ble Member of Parliament (Lok Sabha), Ongole, Andhra Pradesh against the industry regarding severe air pollution and ground water pollution due to dumping of waste material near the unit.

**WHEREAS** vide reference 3rd cited, the Board reviewed the industry before External Advisory Committee (Task Force) meeting held on 11.11.2016 and issued certain directions to the industry on 30.11.2016 for non-compliance of Board directions.

**WHEREAS** vide reference 4th cited, the Board has once again received a complaint through MoE&F, New Delhi filed by Shri Y.V. Subba Reddy, Hon'ble Member of Parliament (LOK SABHA) regarding unbearable pollutants discharged by M/s. Bhagiradha Chemicals & Industries Ltd., Prakasam District.

**WHEREAS** vide reference 5th cited, The JCEE, ZO, Vijayawada has inspected the industry and its surroundings on 30.01.2017 and furnished the inspection report is as follows:

1. During the inspection, the industry was in operation and manufacturing Chlorpyrifos Ethyl technical (insecticide), Triclopyr Technical (weedicide), Azoxystobin (Fungicide).
2. The industry is segregating Low TDS effluent which has a TDS up to 35,000 mg/l and disposing part of the Low TDS effluent into MEE followed by Rotary klin. The remaining part of the Low TDS effluent is disposed on land of about 5 acres located at southern side of the industry (photograph enclosed). Also the Rotary klin has leaks emitting solvent vapors (photographs enclosed). Further, though the industry is collecting part of the condensate from MEE, it is not properly treated. Before going to the final treated collection tank, there are leaks, the ETP is rusting condition and the final treated collection tank wastewater has developed stale conditions (photograph enclosed). The industry has not installed RO plant as per the CFO to further treat this wastewater before using for cooling tower make up.
3. The industry is segregating High TDS effluent which has a TDS between 35,000 mg/l to 1,00,000 mg/l and evaporating part of the High TDS effluent through 7 reactors followed by Rotary klin. The remaining part of the High TDS effluent is disposed on land...
of about 5 acres located at southern side of the industry, where part of the Low TDS effluents are also disposed (photograph enclosed). Also the Rotary kiln has leaks emitting solvent vapors. Further, though the industry is collecting part of the condensate from the reactors, it is not properly treated. Before going to the final treated collection tank, there are lot of leaks, the ETF is in rusting condition and the final treated collection tank wastewater has developed stale conditions. The industry has not installed RO plant as per the CFO to further treat this wastewater before using for cooling tower make up.

4. The industry is segregating the Low TDS non-process effluent and settling in settling tanks. Even to this Low TDS non-process effluent, spillages from process area are joining (photograph enclosed). The industry is not treating this wastewater through MEE and Rotary kiln as per the CFO. It appears the industry is storing this wastewater in the north-east pond, which is supposed to be dismantled as per the CFO condition no.39. Significant quantity of sludge was found in this pond.

5. The industry is not treating this domestic wastewater and not using for cooling tower make up. It has constructed a septic tank and the domestic effluents are allowed to pass to a septic tank and the overflow flow from the septic tank is allowed to stagnate in an unlined lagoon (earthen pit) from which it is over flowing into the 5 acres of land located on the southern side of the industry where part of the Low TDS and High TDS process effluents are disposed (photograph enclosed). It appears the industry is ploughing this 5 acres land with the above effluents regularly, using a tractor (photograph enclosed).

6. Effluents and many flexible pipes were observed in the 5 acres of land

7. The industry generates about 18 Tones per day of hazardous waste which is supposed to be lifted to TSDF. The industry is not properly sending this hazardous waste to TSDF. About 800 to 1000 Tonnes of hazardous waste is stored in an underground storage tank and also in godowns and on open area.

8. Perceptible odour of pesticide technical was observed at the entrance of the industry towards road side.

WHEREAS vide reference 6th cited, legal hearing was conducted before the External Advisory Committee (Task Force) Meeting of A.P. Pollution Control Board on 04.02.2017. The representatives of the industry attended and complainant did not attend the legal hearing. The committee noted that the Board received a complaint through MoE&F, New Delhi filed by Hon'ble Member of Parliament (LOK SABHA), Ongole regarding unbearable pollutants discharged by industry. The committee also noted that the industry is not properly sending the hazardous waste to TSDF. About 800 to 1000 Tonnes of hazardous waste is stored in an underground storage tank, godown and on open area. The representative of the industry informed that Hazardous waste sending to TSDF, Parinawada, Visakhapatnam regularly and maintaining records. The industry has disposed off nearly 1900 tonnes of hazardous waste in the last two months. The Balance quantity of hazardous waste will be disposed off to TSDF, Visakhapatnam by February’2017. It was informed that they installed multi-stage scrubbers to minimize odour. All vents of reactor and storage tanks are connected to scrubbers.

It was also informed that the Low TDS effluents are treated in a stripper to remove low volatile organics and the stripped effluents are treated in MEE. The concentrate from MEE is treated in Batch evaporator. The residue from batch evaporators obtained after evaporation of water is incinerated in rotary kiln and the solids obtained are safely disposed off to secured land fill. The condensate water from MEE and evaporators are treated in ETP. The treated effluent from ETP is further treated in RO plant. The permeate from RO is being used for cooling towers. The rejects from RO are sent to MEE for concentration. They informed that the industry is not storing the effluent in North-East pond. No sludge present in the pond. The management requested the committee to continue the pond located in the North-East direction will be continued to utilize for storage of rain water, which ultimately used for green belt development. The Committee instructed the management to provide lining to the pond located in the North-East direction within one month and then utilize the same for the storage of rain water. The EE, RO, Nellore informed that the industry is not discharging untreated effluents to outside the premises. He also informed that smell nuisance observed in the industry premises due storage of Hazardous properly. The committee has recommended forfeiting (BG No:16340100006134, dt.15.12.2016) for non-compliance of Board directions.

The Committee after detailed discussions, recommended to issue the following directions:

1. The industry shall ensure proper operation of online VOC analyzer and online monitoring system connected to kiln stack.
2. The industry shall dispose off remaining hazardous waste stored within the premises to TSDF, Visakhapatnam within 30 days (1 month).
3. The industry shall operate Effluent Treatment Plant and ZLD system continuously.
4. The industry shall monitor ground water quality at upstream, downstream of the unit, in surrounding areas through NABL accredited laboratory.

5. The industry shall provide lining to the pond located in the North-East direction within one month and utilize for the storage of rain water for green belt development. The industry shall not discharge any waste water into the pond located in North-East direction.

6. The industry shall maintain good housekeeping within the industry premises.

7. The industry shall ensure implementation of requisite measures to prevent air pollution, fugitive emissions and odour nuisance in the surrounding area.

8. The industry shall provide water sprinklers at coal handling area to control fugitive emissions within one month.

9. The industry shall develop thick Green belt along the boundary in the industry premises.

10. The industry shall submit fresh Bank Guarantee of Rs.5.0 Lakhs within 15 days with a validity period of one year towards compliance of the Board directions.

11. The industry shall comply the all directions issued by the Board vide order dt.30.11.2016.

12. The industry shall ensure continuous compliance of the conditions issued in the CFO & HWA order.

This order is issued under Sec.33 (A) of Water (Prevention and Control of Pollution) Amendment Act, 1988 and under Sec.31 (A) of Air (Prevention & Control of Pollution) Amendment Act, 1987.

You are hereby directed to note that, should you violate any of the directions mentioned above, action will be initiated under Sec.33(A) of Water (Prevention & Control of Pollution) Amendment Act, 1988 and Sec.31(A) of Air (Prevention & Control of Pollution) Amendment Act, 1987 without any further notice, in the interest of Public Health and Environment.

This Order comes into effect from today i.e., 01.03.2017.

Sd/-
MEMBER SECRETARY

To
M/s.Bhagiradha Chemicals & Industries Ltd.,
Cheruvukommupalem, Ongole (M),
Prakasam District - \(\text{\$}2\approx\text{\$}\)

Copy to:
1. The Joint Chief Environmental Engineer, Zonal Office, Vijayawada for information and necessary action.

2. The Environmental Engineer, Regional Office, Nellore directed to carry out detailed inspection and monitoring of ground water quality in and around industry premises, VOC monitoring, stack monitoring and ambient air quality monitoring. He is also directed to verify the leakages if any and submit report within a month. The EE, RO, Nellore is also directed to forfeit the Bank Guarantee of Rs.5.00 Lakhs as they have not complied the most of directions issued by the Board vide order dt.30.11.2016 and furnish the amount by way of demand draft to the Board office.

// T.C.F.B.O//

JOINT CHIEF ENVIRONMENTAL ENGINEER
UH-II