WHEREAS you are operating Milk processing unit in the name & style of M/s. Sri Vijaya Visakha Milk Producers Company Ltd., ("the Dairy"), is located at Opp. BHPV, Nathayyapalem, Visakhapatnam.

WHEREAS vide reference 1st cited, the Board has issued CFO and hazardous waste authorization to the industry on 03.10.2016 to produce Milk-515.0MT/day and milk products, which is valid up to 30.09.2021.

WHEREAS the Zonal Office, Visakhapatnam vide reference 2nd cited, has issued notice to the industry on 15.11.2017 for non-compliance of consent order conditions.

WHEREAS vide reference 3rd cited, the Zonal Office, APPCB, Visakhapatnam received complaint dated 28.02.2018 endorsed by Hon’ble Minister of Environment, Forest, Science & Technology, Govt. of AP with regard to air & water pollution problems faced by the residents of 65th Ward, Akkireddypalem village due to operations of the Dairy.

WHEREAS the Zonal Office, Visakhapatnam constituted a team consisting of Sri S. Venkateswarlu, EE, RO, Eluru, Sri A.S.R.C. Murthy, AEE, RO, Vizianagaram & Sri G. Sireesh, Analyst, RO, Kakinada.

WHEREAS the team has inspected the Dairy & Akkireddypalem village surroundings including the drain on 14.04.2018 & 22.04.2018 and reported the following:

1. As per the condition No.3 of schedule B of CFO order dated 14.06.2016 and 03.10.2016, the treated effluents meeting the standards (pH @ 5.5-9.0; TSS @ 100 mg/l; Oil & Grease @ 10 mg/l; BOD @ 30 mg/l) shall be used for on land irrigation within the premises and partly for recycling. The Dairy is partly recycling the treated effluents for crater washings and remaining waste water is discharged directly into the drain flowing along the eastern boundary of the industry. No onland usage of effluents observed, thereby the Dairy is grossly violating the condition of CFO order. The Dairy shall ensure zero discharge of effluents and there shall not be waste water discharge to outside the premises under any circumstances as per CFO order Condition No.4 of Schedule-B. Dairy is discharging about 1000 KLD of effluents to outside drain which is against CFO conditions.

2. As per the condition No.5 of schedule B of CFO order dated 14.06.2016 and 03.10.2016, the Dairy shall submit the action plan to ensure zero discharge of effluents within one month i.e., by 14.07.2016. But no such action plan was submitted by the Dairy, thereby violating the CFO order condition.

3. As per the condition No.9 of schedule B of CFO order dated 14.06.2016 and 03.10.2016, the Dairy shall construct polishing pond by 13.09.2016 with holding capacity of 3 days for storing the treated effluents before discharge. But, no such polishing pond was constructed by the Dairy.

4. The team collected samples of the drain flowing along the eastern boundary of the Dairy on 13.04.2018 and also in the early morning of 14.04.2018 at 6.30 AM without notice of the Dairy. Outlet of the Dairy joining into drain has BOD of 260 mg/ltr (against standard
of 30 mg/ltr) and COD of 880 mg/ltr (against standard of 250 mg/ltr) indicating discharge of untreated effluents during odd hours.

5. The Borewell water of the Dairy has TDS of 1080 mg/ltr, whereas TDS of Borewell water at Mallamma temple of Akkireddypalem has TDS of 8720 mg/ltr. The other parameters such as Chlorides a Cl⁻, Total Hardness as CACO₃, Calcium as Ca²⁺ and Magnesium as Mg²⁺ are also in excess compared to Bore well water of the Dairy. The reason for high TDS seems to be the percolation of waste water in the drain flowing near the Bore well at Mallamma Temple.

6. The Dairy was operating the Effluent Treatment Plant during the inspection. The Treated Effluents were observed to be clear. Units such as DAF, Filter Press, Incinerator and effluent RO Plant were not in operation. There was no Gas Flaring during the inspection indicating improper operation of Anaerobic Reactor.

7. The Incinerator was not in operation and appears to be not operated since long time. No incineration ash was observed indicating non operation of incinicators.

8. Smell is observed around the ETP particularly at sludge drying beds.

9. The ETP has very small capacity equalization tank of 370 KL Capacity. No polishing pond is provided. No separate Lab is existing to measure parameters like MLSS, COD, BOD, DO, SS etc.

10. One 5 HP pump with intake and delivery pipes was observed in the ETP which might be used for pumping untreated effluents at odd hours.

11. The Dairy is measuring Colour, Hardness, P²⁻ and TDS of treated water at 11.00 AM every day. No other parameters are observed to be measured. The team verified available Test Reports bearing Nos.4214 (07.03.2018), 4253 (12.03.2018), 4289 (16.03.2018), 1045 (26.03.2018), 1058 (27.03.2018), 1070 (28.03.2018), 1149 (17.02.2018). As per remarks of Test Report No.4214, dated 07.03.2018, the treated waste water is turbid with abnormal smell and as per test report No. 4253 dated 12.03.2018, the Colour of treated of effluents was turbid. As per test reports of the Dairy itself the ETP is not running well.

12. The ETP is operated by non technical people. Since the ETP is bigger and to handle 1000 KL in a day, dedicated qualified team and dedicated lab shall be employed for hassle free operations.

13. The Dairy is sourcing water from 5 bore wells and also from GVMC. Water consumption is exceeding 1000 KLD.

14. The Dairy submitted production details for the months of October 2017 to March 2018. January 2018 production was 16971.9 KL/month which is equal to 547 TPD against consented capacity of 515 KL/day.

15. The Dairy has two Coal fired boilers of 4 TPH Capacity. One of the boiler is operated continuously. Coal consumption is about 25 TPD. The Dairy provided separate bag filters with separate chimneys. Emissions from the chimney were observed to be minimal during the inspection. As per report of stack monitoring conducted during the inspection also the SPM was less in the stack emissions.

16. The Dairy provided a separate closed coal storage yard to store about 1000 Tons of coal.

17. As per the condition No.12 of schedule B of CFO order dated 14.06.2016 and 03.10.2016, the Dairy shall store coal ash in closed sheds only. Closed shed is provided for coal storage, but no shed is provided for storage of coal ash. Ash is collected from the silo and disposed openly in the premises.

18. As per the condition No.19 of schedule B of CFO order dated 14.06.2016 and 03.10.2016, the Dairy shall develop green belt in vacant premises atleast covering 33 % of the total area. As per this condition, the Dairy shall develop atleast 6.5 acres. No greenbelt is existing except few trees here and there.

19. The Dairy disposed about 300 Tons of ash in the premises near the quarters. This place is also near to Akkireddypalem residential area. The Dairy informed that this ash was disposed one and half month back. The unloading of ash from the lorries must have created lot of dust pollution in the akkireddypalem village because no wetting was carried out during unloading. This might be the main reason for lodging complaint against the dairy.

WEREAS vide reference 4th cited, the Zonal Office, Visakhapatnam while enclosing the report of the team requested to review the industry before External Advisory Committee (Task Force) for taking further course of action.

WHEREAS legal hearing was conducted before the External Advisory Committee (Task Force) of A.P. Pollution Control Board in its meeting held on 03.07.2018. The representatives of the industry attended the legal hearing. The Committee noted that the Board received complaint endorsed by Hon'ble Minister of Environment, Forest, Science & Technology, Govt. of AP with regard to air & water pollution problems faced by the residents of 65th Ward, Akkireddypalem village due to operations of the Dairy. The Committee also noted that the industry is not operating the Effluent Treatment Plant properly and effluents are being discharged into the drain. The Committee observed that the COD and BOD values of the waste water samples
collected at the outlet of the dairy before joining into drain are exceeding the prescribed standards. The committee also noted the status of non-compliance of CFO conditions. The representative of the industry informed that they commissioned 2 No.s of Sand and Carbon filters of capacity 20 KL/hr by which daily around 2.5 Lakh liters per day of water is being treated and sent to dairy quarters for green belt development. It was also informed that they are installing Electrolysis Process System of 10 KL/hr capacity that shall reduce the influent water to ETP. They are in talks with GVMC Commissioner and also Visakhapatnam Port Trust for using the treated water for gardening the port road Plantation connecting Sheela Nagar and Port area. They have tied up with GVMC for disposing of debris on daily basis, so that burning of waste and handling of ash is being avoided. They are using the incinerator only for burning of waste left out by GVMC. The dairy will lay pipeline of 1.0 to 1.5 KM for discharge of effluents away from Akkireddypalem village. The management requested the Board to allow 6 months time for up-gradation of ETP and they will submit the action plan accordingly.

After detailed review the committee recommended to issue the directions. The Board is hereby issue the following directions 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:

1. The dairy shall submit concrete action plan within 15 days for laying of pipeline for disposal of treated effluents downstream of the human habitation within 3 months.
2. The dairy shall submit action plan within 30 days for up-gradation of ETP to meet the BOD standard of 10 mg/lit within 6 months.
3. The dairy shall submit the concrete action plan within 30 days for replacement of coal fired boiler with gas fired boiler.
4. The dairy shall store boiler ash in open area under any circumstances. The existing ash dump shall be cleared completely within one month.
5. The dairy shall explore the possibility for maximum recycling of treated effluents.
6. The dairy shall provide flow meter for quantification of recycled treated effluents and shall submit monthly status to ZO, Visakhapatnam and RO, Visakhapatnam.
7. The dairy shall provide separate energy meter for ETP operations and shall maintain log book and the status shall be furnished to ZO, Visakhapatnam and RO, Visakhapatnam every month.
8. The dairy shall provide separate environment cell with qualified personnel for 3 shift operations.
9. The dairy shall complete the construction of lined storage pond for storage of treated effluents within 3 months.
10. The dairy shall not cause any pollution problems to the surrounding habitants.

You are hereby directed to note that, should you violate any one 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., 21.07.2018.

Sd/-
MEMBER SECRETARY

To
M/s.Sri Vijaya Visakha Milk Producers Co. Ltd.,
Opp.BHPV, Nathayyapalem,
Visakhapatnam – 530 012.

Copy to:

1. The Joint Chief Environmental Engineer, Zonal Office, Visakhapatnam for information and necessary action.
2. The Environmental Engineer, Regional Office, Vizianagaram for information and to pursue with the industry to ensure compliance of the above directions and furnish status report to Board Office.

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

JOINT CHIEF ENVIRONMENTAL ENGINEER
UH-II