

Speed Post

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May 27, 2021

To,

M/s Dalmia Bharat Sugar and Industries Ltd.,  
Sugar Unit - Asrule Porle, 1746, 1748 to 1756,  
Asurle Porle, Tal: Panhala, Dist: Kolhapur,  
Maharashtra - 416229

**DIRECTIONS UNDER SECTION 5 OF THE ENVIRONMENT (PROTECTION) ACT, 1986**

**WHEREAS**, the Central Government has notified the standards for discharge/emission of environmental pollutants from various categories of industries under the Environment (Protection) Act, 1986 and the rules framed there under; and

**WHEREAS**, it is obligatory on the part of industries to install effluent treatment plants (ETPs) and air pollution control devices (APCDs) to comply with the effluent discharge and emission standards as notified under the Environment (Protection) Act, 1986 and the Rules framed there under and also to meet the consent conditions granted by State Pollution Control Board (SPCBs) / Pollution Control Committees (PCCs); and

**WHEREAS**, a direction under section 18 (1) (b) of the Water (Prevention & Control of Pollution) Act, 1974 and the Air (Prevention & Control of Pollution) Act, 1981 was issued on February 05, 2014 to all the State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs) for installation of online effluent monitoring system w.r.t. pH, BOD, COD, TSS, Flow parameters in Sugar Industries;

**WHEREAS**, the Ministry of Environment & Forests, Government of India, vide Notifications No- S. O. 157 (E) of 27.02.1996 and S. O. 730 (E) dated 10.07.2002, has delegated the powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board, to issue directions to any industry or any local body or any other authority for violations of the standards and rules notified under the Environment (Protection) Rules, 1986 and amendment thereof; and

**WHEREAS**, the inspection of the M/s Dalmia Bharat Sugar and Industries Ltd., Sugar Unit - Asrule Porle, 1746, 1748 to 1756, Asurle Porle, Tal: Panhala, Dist: Kolhapur, Maharashtra (hereafter referred as 'The Unit') was carried out on 18.02.2021 by the team of CPCB, as surprise inspections of about 50 randomly selected industries among 17 categories of highly polluting industries, as a special drive. Following major observations were made during the visit:

1. The unit was operational at the time of visit with consented production capacity of 9000 TCD. As per production record cane crushing activity started w.e.f. 03.11.2020.
2. The unit has valid Consent to Operate (CTO) under Air and Water Act obtained from Maharashtra Pollution Control Board (MPCB) valid up to 31.07.2021.

3. The various unit operations & processes of ETP available in the unit are; Process effluent → Collection tank → Buffer tank → Bar screen chamber, 02 nos. (parallel operation) → O & G skimmer → V-notch chamber with lime addition → Equalization tank → Primary clarifier → Anaerobic filter → Parallel feed to → Activated sludge process-1 & 2 → Secondary clarifier-1 & 2 → Supernatant collection tank → Pressure sand filter → Activated Sand filter → Treated effluent collection tank → Treated effluent discharge to lined lagoon for irrigation.
4. During inspection it was observed that some of the unit operations & processes of ETP viz. oil & grease skimmer, pressure sand filter and activated carbon filter were non-operational.
5. It was observed that the launder of primary clarifier was completely submerged and observed with a thick dead pocket of sludge floating on the surface of primary clarifier.
6. There was no overflow of supernatant from the weir into the launder of secondary clarifier-1. Similarly, there was no continuous overflow of supernatant from the weir into the launder of secondary clarifier-2 and subsequent feed to the tertiary treatment system. Hence, the treated effluent sample was not collected from the final treated effluent collection tank where OCEMS effluent sensors are installed, instead treated effluent sample was collected from the intermittent outlet of secondary clarifier-2. The lab analysis report of the collected sample is tabulated below:

Parameters	pH	SS	TDS	Chlorides	Sulphate	BOD	COD	O&G
Analysis result of the samples collected from outlet of secondary clarifier	6.99	77	1934	72	970	30.4	244	2.7
Limit prescribed by MPCB	5.5 – 9.0	100	2100	600	1000	100	250	10

\*All values are in mg/l except pH.

The analysis results indicates that the concentration of all the effluent parameters i.e. pH, SS, TDS, BOD and COD are found be within the MPCB prescribed discharge standards.

7. It was found that the unit is practicing unauthorized proportioning of cooled condensate from second stage cooling tower into the final treated effluent collection tank of ETP. As per the analysis report dated 29.12.2020 provided by the unit, it is observed that the quality of cooled condensate is; COD: 155.55 mg/L and BOD: 42 mg/L respectively.
8. The unit has provided complex network of fixed pipeline arrangement in the ETP without proper colour coding, label and flow direction.


9. The inspection team found visual evidences of substantial seepage and pondage of effluent near various unit operations & processes of ETP. The effluent is collected in a drain near secondary clarifier-2 of ETP and the unit is practicing unauthorized proportioning of effluent into the treated supernatant collection tank of ETP (filter feed tank).
10. As informed the unit has made a bi-lateral agreement with farmers for utilization of treated effluent for irrigation.
11. The unit has provided 02 nos. of lined lagoons of reported capacity of 4,000 m<sup>3</sup> & 11,000 m<sup>3</sup> for storage of treated effluent of ETP during low demand period for irrigation. The provided storage capacity is found adequate for storage of treated effluent of 15 days.
12. The unit has two co-gen boilers of reported capacity of 40 TPH and 120 TPH where bagasse is used as main source of fuel. The unit has provided ESP as an air pollution control device.
13. The unit has provided designated storage area for handling and disposal of wastes. As per the records, the unit has made a MoU with M/s DSS Infra & Getechno Services, Kolhapur for disposal of press mud. ETP sludge is disposed for agriculture as a manure and fly & bottom ash is utilized for captive brick manufacturing. The unit is maintaining the disposal records of press mud, ETP sludge and fly ash.
14. The OCEMS installed in the unit was found operational at the time of inspection however the monitored online data is not being transferred to CPCB and SPCB server due to unavoidable technical problems at the service provider end.
15. The OCEMS effluent sensors are placed in the final treated effluent collection tank of ETP, from which the treated effluent is conveyed through HDPE pipeline into lined lagoons.

**NOW, THEREFORE,** in view of the above observations and in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, the following directions are issued to **M/s Dalmia Bharat Sugar and Industries Ltd., Sugar Unit - Asrule Porle, 1746, 1748 to 1756, Asrule Porle, Tal: Panhala, Dist: Kolhapur, Maharashtra** for compliance:

1. The unit shall ensure operations & processes of ETP viz. oil & grease skimmer, pressure sand filter and activated carbon filter should operate properly.
2. The unit shall ensure proper operation and maintenance of primary clarifier and should remove the thick dead pocket of sludge floating on the surface of primary clarifier.
3. The unit should ensure continuous operation of ETP and smooth/continuous overflow of supernatant from the weir into the launder of secondary clarifier-1 and similarly for secondary clarifier-2.
4. The unit should immediately stop practicing unauthorized proportioning of cooled condensate from second stage cooling tower into the final treated effluent collection tank of ETP.

5. The unit should provide proper colour coding of all the pipelines in the ETP along with flow direction and put a flow diagram of ETP in the ETP area.
6. The unit should properly maintain various unit operations & processes of ETP to avoid substantial seepage and pondage of effluent.
7. The unit shall ensure proper operation and maintenance of OCEMS devices and its connectivity with CPCB & SPCB server.

The unit shall submit time bound action plan for compliance of the above directions within 60 days of receipt of this direction and also submit the point wise compliance of all the above directions 60 days before the start of next crushing season. In case of failure to comply with the said directions, necessary action shall be taken against the unit without giving any further notice, in accordance with provisions of the Environment (Protection) Act, 1986.

  
(SHIV DAS MEENA) o/c  
CHAIRMAN

Copy to:

1. **The Member Secretary,** : For ensuring compliance of  
Maharashtra Pollution Control Board directions please.  
2nd, 3rd & 4th Floor,  
Opp. Cine Planet, Near Sion Circle,  
Sion (E), Mumbai- 400022
2. **The Regional Director,** : For information please  
Regional Directorate  
Central Pollution Control Board,  
ROW House No. 1, Sanjivani Nisarg  
Balewadi Pune - 411045
3. **The Incharge (CP Division)** : For information please  
Ministry of Environment, Forest & C.C  
Prithvi Block, Indira Paryavaran  
Bhawan, Jorbagh Road,  
New Delhi - 110 003
4.  **The In-charge, IT Division, CPCB** : For uploading on CPCB website
5. **The Div. Head, IPC-VI, Division,** : For information please  
CPCB Delhi
6. **The In-charge, IPC-III Division,** : For Record Purpose  
CPCB

  
(PRASHANT GARGAVA) o/c  
MEMBER SECRETARY