



केन्द्रीय प्रदूषण नियंत्रण बोर्ड
CENTRAL POLLUTION CONTROL BOARD

पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय भारत सरकार
MINISTRY OF ENVIRONMENT, FOREST & CLIMATE CHANGE GOVT. OF INDIA

Speed Post

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12-10-2018
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To,

M/S JAY SHREE SUGAR MILLS,
MAJHAULIA, WEST CHAMPARAN,
BIHAR-845454

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

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

WHEREAS, the Ministry of Environment & Forests, Govt. of India, vide notification S.O.157(E) of 27.02.1996 has delegated powers vested under Section 5 of the Environment (Protection) Act, 1986 (29 of 1986) to the Chairman, Central Pollution Control Board (CPCB), to issue direction to any industry, Municipal Corporation, Municipal Council, Cantonment Board to any local or other Authority for the violation of emission and effluent standards notified under the Environment (Protection) Rules, 1986; and

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

WHEREAS, M/s Jay Shree Sugar Mills, Majhauia, West Champaran, Bihar (hereinafter referred as 'the Unit') is involved in the process of sugar manufacturing from crushing of cane; and

WHEREAS, CPCB issued direction dated 06.06.2017 under section 5 of Environment Protection Act, 1986 to the Unit to remain closed till compliance of the following directions : i) Submission of ETP adequacy assessment report ii) Time bound action plan of ETP augmentation iii) Water audit and mass balance report iv) Action plan to achieve notified effluent discharge quality and generation standards v) Irrigation management plan vi) restriction of storage of treated effluent in lined lagoon only for 15 days and other general direction pertaining to proper running of effluent treatment system, with all the reports and action plans validated by reputed institutions like National Sugar Institute (NSI), Kanpur/Vasantdada Sugar Institute (VSI), Pune /IITs submitted to CPCB within 60 days; and

AND WHEREAS, CPCB received adequacy assessment report vide letter dated 08.09.2017 from the Unit prepared by VSI, Pune; and

WHEREAS, CPCB issued direction dated 27.11.2017 under section 5 of Environment (Protection) Act, 1986 to the Unit to comply with the following directions;

1. The Unit shall start its operation only after obtaining valid consent from the concerned State Pollution Control Board.
2. The Unit shall submit action plan within 15 days to implement the recommendations (including general observation) of adequacy report within 45 days.

3. The Unit shall install & Commission ETP system upto tertiary treatment level including adequate treatment system for spray pond overflow effluent in case of double sulphitation process (Brine recovery system to be installed in case of sugar refinery having Ion Exchange Process for sugar melt de-colorization).
4. The Unit having high pressure boiler (>45 Kg/cm²) shall install & Commission Condensate Polishing Unit (CPU) within 45 days for treatment of condensate water to ensure its reuse & recycle within the process.
5. The Unit shall restrict the effluent storage capacity to 15 days.
6. The Unit shall implement the observation and recommendation of the adequacy report within 45 days.
7. The Unit shall get the verification of implement status of the recommendation of adequacy report including ETP performance assessment & effluent generation assessment done by the same institute which carried out adequacy assessment and submit the report to CPCB within 45 days from date of resumption of manufacturing operations.
8. The Unit shall utilise treated effluent meeting the prescribed norms for irrigation as per the irrigation management plan validated by expert institutions namely, NSI, Kanpur/ VSI, Pune/ Agricultural Institutions.
9. The analysis result of the treated effluent shall also be submitted within 45 days through EPA recognised laboratories.
10. If the Unit fails to provide the verification report duly validated by the expert institutions, the Unit shall automatically stop all its manufacturing operations after 45 days from date of resumption of manufacturing operations.

AND WHEREAS, the Unit has submitted implementation status of recommendations of adequacy report vide letter dated. 09.12.2017 to CPCB; and

WHEREAS, the Unit (M/s Jay Shree Sugar Mills, Manjhaulia, West Champaran, Bihar) was inspected on 09.01.2018 by officials from CPCB, and following observations were made;

1. The Unit and the ETP were operational.
2. The Unit has valid consent under Water (Prevention and Control of Pollution) Act, 1974 & Air (Prevention and Control of Pollution) Act, 1981 upto 30.09.2018.
3. The Unit has installed Effluent Treatment Plant (ETP) which is comprised of Oil and Grease trap, Equalisation tank Primary Clarifier, Aeration Tank, Secondary Clarifier, Tertiary Treatment System and Sludge Drying Bed.
4. The analysis of treated effluent sample shows pH-7.55 as against norms of 5.5-9.0, BOD-09 mg/l against norms of 30 mg/l, COD-24 mg/l against norms of 250 mg/l and TSS-22 mg/l against norms of 30 mg/l. However, MLSS in aeration tank was 186 mg/l.
5. MLSS in aeration tank was **186 mg/l**. which indicates unstabilised Activated Sludge Process system due to poor operation and maintenance of ETP system and possibility of dilution of ETP system.
6. Total effluent is discharged 96 Litre/ tonne by the Unit as per inspection report. However, effluent discharge was 415 Litre/ tonne as per adequacy assessment report of VSI, Pune.
7. Flow meters were not installed at the inlet, outlet of ETP, Spray pond overflow and other unit operations by the Unit.
8. Kaccha permeable lagoon was found outside the industry where treated effluent reaches through an open channel.

9. The Unit has not submitted irrigation management plan.
10. The Unit has not submitted revalidated ETP adequacy assessment report within 45 days from the date of resumption of operation to CPCB.

AND WHEREAS, based on the above observations, a show cause notice was served to the Unit on 26.04.2018 under Section 5 of Environment (protection) Act, 1986; and

WHEREAS, the Unit has submitted the water balance and ETP adequacy verification report prepared by VSI, Pune vide their letter dated 21.04.2018 which are examined and following observations are made:

1. Flow meter is not installed on wet scrubber, excess condensate, boiler makeup, vacuum, filter, lime preparation, movement water at pans, super heater at batch type centrifugals and continuous machines.
2. Installed cane crushing capacity of the sugar mill is 5000 TCD with average crushing rate of last three years was 4396.24 TCD crushing efficiency is 99.60%.
3. One cooling tower is installed for cooling tower of mill house and power house having capacity 300 M³/hour and another for crystallizer cooling water from boiling house having capacity of 50M³/hour.
4. As per the flow meter reading average water abstracted from ground is 463M³/day i.e. 92.60 L/tonne of cane.
5. The ETP system of the Unit is designed for treating 1000M³/day of effluent but during crushing season effluent quantity generation can be reduced to 851 M³/day, making the ETP overcapacity but considering low temperature during winter season and variations in flow & organic load, it is adequate.
6. Laboratory for waste water analysis is established.
7. Effluent generation is about 227.25 L/tonne of cane crushed.

AND WHEREAS, CPCB through an Expert Committee comprising of experts from National Sugar Institute (NSI), Kanpur, Vasantdada Sugar Institute (VSI), IITs and representatives from sugar mills prepared a Charter for Water Recycling and Pollution Prevention (thereafter referred to as the Charter); and

WHEREAS, a meeting of sugar mills operating in the State of Bihar, representatives of Bihar State Pollution Control Board (BSPCB) and CPCB was held on 10.08.2018 under Chairmanship of Chairman, BSPCB and the following decisions were made

1. Sugar Mills shall submit an action plan to CPCB by 20.08.2018 regarding the steps taken by them pertaining to the notices issued to them. Also they shall submit action plan to implement recommendations of their adequacy assessment report.
2. All sugar mills shall ensure implementation of Charter and shall submit action plan to CPCB by 15.09.2018.
3. All sugar mills shall ensure the upgradation of their ETP within August, 2018 so as to ensure no interruption in functioning of the ETP in the following seasons.
4. All sugar mills shall maintain a logbook on ETP operations on a daily basis.
5. ETP shall be operational at all times and all bypass arrangements should be dismantled with immediate effect.
6. MLSS in aeration tanks should be maintained at 2000-2500 mg/l.
7. All sugar units shall set up environmental laboratories for regular analysis of raw and treated effluent thereby ensuring proper functioning of the ETP.

8. All sugar mills shall employ dedicated technicians for operating and regular maintenance of ETP and shall also ensure that the technicians are given proper training on ETP maintenance and lab analysis on regular basis.
9. To ensure proper training of the environmental technicians all sugar mills shall facilitate training of 5 employees.
10. All sugar mills may establish an Environment Management Cell at their level consisting of concerned officials in order to ensure compliance with environmental standards at industry level itself.

WHEREAS, the Unit has submitted its reply vide their letter dated 16.05.2018 with the action plan for implementations of recommendations of adequacy report and submitted other documents vide their letters dated 09.06.2018, 16.06.2018 and 18.08.2018, which are examined and following points are observed:

1. Leak proof lagoon i.e. pakka lagoon is completed.
2. Cooling tower installed for machinery cooling water.
3. Dry cleaning of floor and onetime water at mill in a day is being carried out.
4. Cooling tower injection water is used for cleaning of evaporators, pans etc.
5. Water from cooling tower partially used for wet scrubber, pumps gland cooling and cleaning of juice heater and evaporators, rest will be completed by 1st week of October.
6. Unit is planning exclusive tubewell operation for drinking water, not used for plant to minimize fresh water taps in the sugar mill.
7. Installed oil and grease trap with oil skimmer at mill side effluent.
8. Installation of flowmeters and other recommendations of the VSI report is under process and will be complete before start of crushing season.
9. Low MLSS at the time of CPCB inspection was because of dilution due to leakage from an old drinking water pipe which was controlled in two days.
10. Unit has submitted the Action plan of Charter for Water Recycling & Pollution Prevention in Sugar factories issued by CPCB.

AND NOW, THEREFORE, in view of the above observation, and exercising powers delegated to the Chairman, Central Pollution Control Board under section 5 of the Environment (Protection) Act, 1986, the unit (M/s Jay Shree Sugar Mills, Manjhaulia, West Champaran, Bihar) is directed to comply with the following directions before commencement of crushing season 2018-2019;

1. The unit shall start its operation only after obtaining the valid consent from Bihar State Pollution Control Board.
2. The unit shall implement all the observation & recommendation of the revalidated adequacy assessment of ETP.
3. The Unit shall submit the irrigation management plan duly validated by NSI/VSI/IITs.
4. The unit shall install sealed flow meter along with running hours meter on bore wells so as to ascertain usage of fresh water for various uses.
5. The unit shall install flow meters at major areas of cold and hot water consumption.
6. The unit shall install flow meters for measuring generation of effluent from various prominent areas.
7. The unit shall maintain logbook for individual process unit for recording daily water consumption and effluent generation also.
8. The unit shall carry out colour coding of pipelines carrying recycled process water and fresh process water.

9. The Unit shall commission mechanical sludge handling system of adequate capacity.
10. The Unit will carry out analysis of parameters of treated effluent notified under Environment (Protection) Rules, 1986 on daily basis and maintain its logbook.
11. The unit shall submit the implementation status of the Charter in the form of Affidavit and the documentary proof of the completion of the work as committed in the action plan.
12. The unit shall submit implementation status of the Charter and performance adequacy audit of ETP including actual assessment of water consumption and effluent generation duly validated by reputed expert institute namely NSI Kanpur, VSI Pune, IITs during crushing season & submit the report to CPCB within 60 days of resumption of operation.

In case of default in compliance with the above directions, CPCB will be constrained to initiate action against the Unit (**M/s Jay Shree Sugar Mills, Manjhaulia, West Champaran, Bihar**) without giving any further notice in accordance with the provisions of the Environment (Protection) Act, 1986.


(S.P. SINGH PARIHAR)
CHAIRMAN

Copy to:

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| 1. Principal Secretary
Sugarcane Industries,
Government of Bihar
Department of Sugarcane Development
Vikas Bhawan, New Secretariat
Patna-800015 | : For kind information, please. |
| 2. Member Secretary
Bihar Pollution Control Board,
Parivesh, Bhawan, Plot No., Ns-B/2,
Patliputra Industrial Area,
Patliputra, Patna (Bihar)-800 023 | : With request to ensure compliance of the directions. |
| 3. Joint Secretary (CP Division)
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi – 110 003 | : For kind information, please. |
| 4. District Magistrate
West Champaran-845454, Bihar | : For kind information, please. |
| 5. Regional Director
Central Pollution Control Board Regional Directorate
Southern Conclave, Block-502,
5 th & 6 th Floor, 1582, Rajdanga Main Road,
Kolkata – 700 107 (West Bengal) | : For follow up and ensuring compliance |
| 6. In-charge, IT Division, CPCB | : For uploading on the CPCB website |
| 7. Master file/Guard file WQM II, CPCB Delhi | : For record |

o/c


(PRASHANT GARGAVA)
MEMBER SECRETARY