



Speed Post

B-190198/NGRBA(RG)/CPCB/Distillery/1/2016-17

September 9th, 2019
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To,

M/s India Glycol Ltd., (Distillery Unit),
A-1, Industrial area, Bazpur Road,
Kashipur, Distt. U.S. Nagar,
Uttarakhand.

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. India Glycol Ltd., (Distillery Unit) (hereinafter referred as 'the Unit') is involved in the manufacturing of extra neutral alcohol and rectified spirit using molasses as raw material; and

WHEREAS, CPCB issued direction dated 07.12.2015 under Section 18 (1)(b) of Water (Prevention & Control of Pollution) Act, 1974, to Uttarakhand Environment Protection and Pollution Control Board (UEPPCB) that industries opting for concentration incineration system shall restrict impermeable storage of spent wash at any stage, to seven days equivalent of production; and

WHEREAS, UEPPCB issued Consolidated Consent to Operate and Authorization (CCA) vide letter ref.no. UEPPCB/HO/Con-1-8/2017/510 dated 06.07.2017, to the Unit that the generated spent wash shall be disposed through Multi Effect Evaporator and concentrate (slop) shall be used in boiler, while condensate shall be utilized in process. In no case spent wash/condensate shall be discharged on land and water bodies; and

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केन्द्रीय प्रदूषण नियंत्रण बोर्ड

दिनांक: 16/09/19

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

'परिवेश भवन' पूर्वी अर्जुन नगर, दिल्ली-110032

Parivesh Bhawan, East Arjun Nagar, Delhi-110032

दूरभाष/Tel : 43102030, 22305792, वेबसाइट/Website : www.cpcb.nic.in

WHEREAS, the Unit was jointly inspected by officials of CPCB, and officials of UEPPCB, on 09.01.2019, based on SMS Alert Monitoring System and the following observations are made:

1. The Unit's installed production capacity is 425 KLPD while its restricted production capacity is 240 KLPD and present production is 170-180 KLPD.
2. The Unit has valid consents under Water Act, 1974 and Air Act, 1981 with validity upto 31.03.2023.
3. The effluent treatment facility of the Unit consists of bio-methanation, MEE followed by incineration.
4. The Unit is efficiently controlling air pollution and in the period between 01.01.2018 and 31.12.2018, there has been only 5 SMS alerts observed in the Online System at the stack of boiler (50 TPH) and satisfactory corrective action have been taken by the Unit in all five cases.
5. As per analysis report of monitoring carried at stack attached to 50 TPH boiler, particulate matter emission of 69.3 mg/Nm³ was within the prescribed standard limit of 150 mg/Nm³.
6. Spent wash generation per KL of alcohol production is 7.5 to 7.9 KL/KL of alcohol.
7. Huge quantity of spent wash (approx. 70,000 M³) was found stored in the lagoons.
8. UEPPCB had disconnected the wastewater conveyance network to and fro the lagoons on 28.01.2017, so as to isolate them.
9. To manage the spent wash stored in the lagoons, the Unit is undertaking bio-composting over an area of 20 acres. However, as per the monthly data submitted by the Unit to the CPCB, no data on bio-composting of the stored spent wash has been provided.

AND WHEREAS, CPCB issued show cause notice dated 7th Feb, 2019 under section 5 of Environment Protection (Act), 1986 to the Unit as to why the Unit should not be closed until following suggestive measures besides other pollution control measures are implemented:

1. To submit a time bound action plan for complete safe disposal of approximately 70,000 m³ of spent wash stored in the lagoons as per SOP/Consent Conditions.
2. To ensure that no runoff or overflow occurs from the lagoons.
3. To restrict lagoon capacity to seven days' equivalent of production.
4. To ensure availability of calibration protocol for Online Continuous Emission Monitoring System and to ensure strict adherence to the same.
5. To continue to submit the monthly data and analysis report in compliance with CPCB Direction dated 05.06.2018.

AND WHEREAS, the Unit's reply vide letter dated 25.02.2019 was examined and following observations were made:

1. The Unit, M/s India Glycols Ltd., Kashipur, initially had two streams:
 - a. 240 KLD stream having MEE and incineration boiler to achieve ZLD.
 - b. 98 KLD stream having biodigester and biocomposting to achieve ZLD.

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- However, since the Unit failed to install MEE before biocomposting therefore CPCB directed UEPPCB vide direction dated 22.12.2016 under Section 18(1)(b) to ensure the stoppage of the 98 KLD stream of the Unit until the installation of MEE. Subsequently, UEPPCB issued direction under Section 33(A) dated 12.01.2017 to the Unit to stop operation of 98 KLD stream having biocomposting to achieve ZLD until the installation of MEE is completed. Lagoons associated with the 98 KLD stream which were used to store biomethanated spent wash prior to biocomposting were disconnected and sealed by UEPPCB officials on 28.01.2017.
2. In the Unit's 240 KLPD stream the spent wash is used as fuel in the slop fired boiler after concentration through MEE.
 3. The effluent stored in the lagoon associated with 98 KLPD stream is an accumulation of old spent wash along with rain water post the isolation and sealing of lagoons by UEPPCB on 12.01.2017, This lagoon is not being used for any new storage of spent wash since 12.01.2017 and only rain water is being accumulated.
 4. The pH, COD and TS of the lagoon water is 7.6-8.0, 14000-18000 mg/L and 300-340 mg/L respectively.
 5. The effluent accumulated in lagoons are utilized through bio-composting process by mixing with press mud.
 6. The Unit has compost yard of 8 acres, along with additional land required for storage of press mud and finished product of 12 acres. The total area available is 20.0 acres.
 7. The Unit has submitted a time bound action plan to consume 96000.00 m³ (70000 m³ (Stored effluent + 26000 m³ rain water) of diluted spent wash within two years i.e. 2019 to 2021. The Unit shall utilize press mud to spent wash in the ratio of 1:2 in bio-composting.
 8. As per the action plan, in parallel to utilization of stored spent wash, lagoon shall also be filled with fly ash and demolition waste to prevent further accumulation of rain water.
 9. The Unit's time bound action plan for utilization of stored spent wash has been validated by Department of Health, Safety, Environment & Civil Engineering, University of Petroleum and Energy Studies, Dehradun.
 10. The utilization of effluent will be done through bio-composting during non-monsoon season only. During monsoon season bio-composting activity will be closed down as per protocol.
 11. The level of spentwash in the lagoon is well below the upper ridge of the lagoon and there is no possibility of run-off.
 12. The Unit has kept one lagoon within the premises for storage of concentrated spent wash equivalent to seven days' production (3920 m³) and further informed that the lagoon is already filled with sludge and only the top of the lagoon is kept for storage purpose.
 13. The Unit has provided the last calibrated date of OCEMS i.e. 29.03.2019 and has assured that calibration will be done as per CPCB guidelines.

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14. The Unit is regularly submitting the monthly data in compliance to CPCB direction dated 05.06.2018.

AND WHEREAS, CPCB issued direction dated 14.03.2019 under Section 5 of Environment (Protection) Act, 1986, to comply with the following:

1. The Unit shall utilize the spent wash stored in isolated lagoons in bio-composting before June 30, 2021 as per standard operating process and the action plan.
2. The Unit shall dismantle the lagoon after utilization of accumulated spent wash and shall submit the documentary evidence when the lagoon gets emptied.
3. The Unit shall submit the documentary support for procurement of press mud, sell of compost, compost quality on monthly basis to CPCB.
4. The Unit shall continue to achieve ZLD and shall restrict the impermeable storage of lagoon of spent wash to 07 days equivalent as per the direction dated 7/12/2015 issued under section 18(1) (b) of Water (Prevention & Control of pollution) Act, 1974.

AND WHEREAS, Unit's replies vide letters dated 02.04.2019, 10.05.2019, 10.06.2019, 06.07.2019 and 08.08.2019 were examined and following observations were made:

1. The Unit has completed the first cycle of biocomposting on 04.06.2019, where 12000 m³ of stored spent wash was utilized maintaining pressmud to spent wash ratio of 1:2 and cycle duration was 60 days.
2. The Unit purchased 7500 MT of pressmud, of which 6000 MT was utilized in first biocomposting cycle.
3. The Unit has stored ready compost and excess press mud under LDPE sheet.
4. The filling of lagoons is under progress with 47905 MT fly ash dumped in the lagoons till 31.07.2019.

AND WHEREAS, the Joint Committee comprising of Member Secretary, CPCB and Member Secretary, UEPPCB, under the supervision of Justice (Retd.) Arun Tandon, carried out inspection of the Unit on 11.06.2019 - 12.06.2019 and following observations were made:

1. The Unit, M/s India Glycols Ltd., Kashipur, initially had two streams:
 - a. 240 KLD stream having MEE and incineration boiler to achieve ZLD.
 - b. 98 KLD stream having biodigester and biocomposting to achieve ZLD.
 However, manufacturing operation of 98 KLD stream has been closed and lagoon associated with the 98 KLD stream used to store biomethanated spent wash prior to biocomposting was disconnected and sealed by UEPPCB officials on 28.01.2017.
2. The total active biocomposting area of the Unit is 8 acres which is entirely uncovered.
3. As per CPCB direction dated 07.12.2015, the 98 KLD stream having biodigester and biocomposting to achieve ZLD was allowed to store raw/biomethanated spent wash in lagoons until 31.03.2016. The lagoons associated with the 98 KLD stream were in use for storage of spent wash until the issue of closure direction on 12.01.2017 and

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- subsequent disconnection and sealing of the lagoons on 28.01.2017. Hence, the spent wash previously stored from the 98 KLD stream remained un-utilized in the sealed lagoons. Further, due to deposition of rain water during subsequent monsoon seasons, the volume of diluted spent wash increased to 96000 M3 having pH 7.6-8.0, COD 14000-18000mg/L and total solids less than 1%.
4. At present the lagoon containing stored spent wash is being filled with fly ash generated from SLOP furnace.
 5. MEE system of 240 KLD stream is designed for concentration of spent wash with 10-12% solid content as feed and 45-50% solid as output. Thus, the stored effluent having solid content less than 1% shall require about 4- 5 cycles of evaporation to achieve 30% solid content. Further, manufacturing operation of 240 KLD stream needs to be stopped for about 4 months and process condensate of about 80,000 m3 needs to be discharged in violation of ZLD condition.
 6. Direct incineration of the diluted spent wash will not be possible due to the low concentration of solids/low calorific value in the stored spent wash which comprises mostly of inorganic material. Also, boilers are designed for incineration of 45% solid concentration.
 7. Unit is undertaking biocomposting in 8 acres of active biocompost area while maintaining spent wash to press mud ratio of 1:2 in compliance to CPCB direction dated 14.03.2019.

AND WHEREAS, the Joint Committee report dated 05.07.2019 which included inspection report along with suggestions and recommendations of Justice (Retd.) Arun Tandon, was filed in Hon'ble National Green Tribunal (NGT) in the matter of Dr. Tanzeen Fatima Vs MoEF & CC in OA No. 361/2017.

AND WHEREAS, the verbatim of Hon'ble NGT in para 9 of order dated 23.07.2019 in the matter of Dr. Tanzeen Fatima Vs MoEF & CC in OA No. 361/2017 is as follows:

"We, thus, do not find any ground not to accept the report of the Joint Committee, including the amount of compensation to be recovered. The same may be acted upon forthwith."

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 Unit M/s India Glycols Ltd., Kashipur is directed to comply with the following:

1. The Unit shall dismantle/level/fill all excess storage capacity of lagoons in compliance to CPCB direction dated 07.12.2015 issued under section 18(1) (b) of Water (Prevention & Control of pollution) Act, 1974.
2. The Unit shall dismantle/level/fill excess storage capacity of active lagoon located in its premise used for storage of concentrated spent wash from 240 KLD stream production and shall have only storage capacity equivalent to seven days' production. Sludge/spentwash stored in the lagoon shall be utilized as per conditions prescribed in

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- the Consent to Operate. The Unit shall submit time bound action plan within 15 days.
3. The Unit shall comply with CPCB direction dated 14.03.2019 issued Section 5 of the Environment (Protection) Act, 1986.

In case of default in compliance with the above directions or any other exigencies, CPCB will be constrained to initiate further stringent action against the Unit, in accordance with the provisions of the Environment (Protection) Act, 1986, without any further notice.


(S. P. SINGH PARIHAR)
CHAIRMAN

12/03/19

Copy to:

1. **Member Secretary**
Uttarakhand Environment Protection &
Pollution Control Board,
29/20 , Nemi Road, Dehradun,
Uttarakhand"Building
With request to ensure that the unit complies
with the directions and submit quarterly
report.
2. **The 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.
3. **The Regional Director**
Regional Directorate
Central Pollution Control Board
PICUP Bhawan, Ground Floor,
Vibhuti Khand, Gomti Nagar,
Lucknow – 226 010.
: For follow up and ensuring compliance
4. **The District Magistrate,**
Haridwar-Uttarakhand
:For follow up and ensuring
compliance
5. The In-charge, IT Division, CPCB
6. Master file/Guard file WQM-II Division


(PRASHANT GARGAVA)
MEMBER SECRETARY

o/c