

Speed Post

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

Jan 02, 2018

To,

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

SHOW CAUSE NOTICE 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 production of extra neutral alcohol and rectified spirit using molasses as raw material; and

WHEREAS, CPCB issued direction on 24.02.2015 and a follow up direction on 23.04.2015, under section 18(1)(b) of Water Act, 1974 to Uttarakhand Environment Protection & Pollution Control Board (UEP&PCB) for ensuring that the molasses based distilleries including yeast manufacturing units in the state of Uttarakhand shall achieve zero liquid discharge, as per the options specified in the direction; and

WHEREAS, CPCB issued closure direction u/s 18(1)(b) of water Act, 1974 dated 22/12/2016 to the UEPPCB for further directing the unit to discontinue all manufacturing operations and shall not be permitted to restart operations until they comply with the action plan for achieving ZLD; and

(Contd.2/-)

WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB) Delhi, 26.12.2016 and, the unit was found in operation and the following major observations were made;

1. The unit has failed to achieve zero liquid discharged condition and it was observed that floor washing effluent and MEE condensate as being discharge into outside drain through two storm water drains.
2. The analysis results of the samples collected from the storm water drains located near to alcohol storage and cut glass bin indicates BOD & COD values of 345, 471 mg/l & 516, 724 mg/l respectively much higher than the prescribed discharge standards of 30 mg/l and 250 mg/l respectively.
3. The distillery unit has not installed PTZ camera at all the strategic locations like lagoons and composting yard and also not provided connectivity to CPCB.
4. The unit has not yet provided connectivity of flow meter to CPCB, as per the direction/guidelines issues.
5. The unit has not yet installed online PM emission monitoring system in the slope fired boiler.
6. The chemical unit of M/s India glycol limited has not installed online monitoring system at the outlet of ETP.

WHEREAS, UEPPCB issued closure direction dated 10.01.2017, under section 33(A) of Water (Prevention & Control of Pollution) Act, 1974 to the unit to ensure Zero Liquid Discharge; and

WHEREAS, CPCB issued letter dated 10.01.2017, to UEPPCB related to clarification regarding direction under section 18(1)(b) to M/s India Glycol Ltd., that the unit has two streams of treatment facilities(ZLD);

1. 240 KLD stream having MEE and Incineration boiler to achieve ZLD.
2. 98 KLD stream having Bio-digester & Bio-composting to achieve ZLD.

AND WHEREAS, UEPPCB issued, modified direction dated 12.01.2017, under section 33(A) of Water (Prevention & Control of Pollution) Act, 1974 to comply the following;

1. The unit shall stop operation of 98 KLD stream having Bio-composting to achieve ZLD until MEE installation is not completed.

AND WHEREAS, CPCB issued show cause notice under section 5 of E(P)A on 16.02.2017 to comply with the prescribed guidelines and discharge standards; and

WHEREAS, the unit replies vide letter dated 20 March 2017 was examined and following observations made;

1. The distillery unit has provided connectivity of online systems to CPCB, and the same has been verified.

(Contd..3/-)

AND WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB) on 15.5.2017, and following observations made;

1. The unit has MEE and Incineration boiler to utilize its spent wash.
2. The unit was using its previous stored spent wash in Bio-composting.
3. The unit has installed flow meter & cameras at requisite position and provided its connectivity to CPCB server.
4. The unit is having valid consent up to Dec, 2018.

WHEREAS, CPCB, issued direction dated June 26, 2017 to the unit, to comply with the following directions;

1. The unit shall submit following reports duly validated by reputed institutions like National Sugar Institute, Kanpur, Vasantdada Sugar Institute, Pune and IITs to CPCB and UEP&PCB within 60 days for 240 KLD stream.
 - a) Assessment of the manufacturing technology for spent wash generation and adequacy assessment of ZLD system comprising of Biomethanation, RO, MEE, composting/incineration system and steam availability, etc.
 - b) Water audit and mass balance reports to establish spent wash generation rate,
 - c) Action Plans to achieve Zero Liquid Discharge(ZLD),
 - d) To restrict lined effluent storage capacity to 30 days, and
 - e) Assessments of availability of press mud, compost yard, composting process, sell of compost and compost quality.
2. The unit shall install mass flow meters at inlet of ROs/MEE, outlet of MEE and to make arrangement for continuous online transmission of spent wash flow measurements (namely Weak Spent Wash, Strong Spent Wash)/ web camera data of Spent Wash generation, concentration & MEE operation by providing linkage to CPCB & UEPPCB servers within 75 days.
3. The unit shall identify recipient drains/ rivulets and their u/s & d/s locations in consultation with UEP&PCB for monthly monitoring by industry to ensure ZLD from distilleries within 30 days. The monitoring report shall be submitted to CPCB on monthly basis.
4. The unit will provide documentary support for procurement/ availability of press mud, sell of compost and compost quality on monthly basis (by 10th of every month) to CPCB/UEP&PCB.
5. The unit shall stop Bio-composting activity for 98 KLD stream as per UEPPCB direction dated 12.01.2017 and shall submit documentary evidences like excise records to UEP&PCB report in support of closure of 98 LKD stream.

AND WHEREAS, unit has submitted the adequacy assessment report validated by VSI, Pune dated 15.09.2017 and as per the adequacy assessment report, following observations are made;

1. The unit has adopted fermentation process in fed batch mode.

(Contd..4/-)

2. The spent wash generation is estimated to be 7.73 L/L of alcohol production.
3. The distillation process is based on atmospheric distillation with re-boilers and advanced MPR distillation to produce RS & ENA.
4. Performance of IGL distillery effluent plants were found satisfactory considering the spent wash generation and available spent wash effluent treatment system.
5. The unit is treating its process condensate and spent lees in aeration tanks by proving air through air sparger. The unit is using its treated water in cooling tower make up water and for molasses dilution.
6. The unit has installed one piezometer digital water level recorder.
7. The unit has installed 02 no. Rain water harvesting in the premises.
8. The unit has identified 'Kosi River' which is 6 KM away from IGL.
9. The unit has installed mass flow meter to MEE feed and concentrated spent wash generation in evaporation plant.
10. The unit has installed cameras at Slop Boiler, Bio-compost yard and evaporation plant.
11. The unit has stopped bio-composting as per direction of CPCB and UEPPCB.

AND WHEREAS, the unit has not complied with the following CPCB direction issued June 26, 2017;

1. The unit has not provided the connectivity of mass flow meters at the inlet and outlet of MEE.
2. The unit has not provided the copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter readings connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UEP&PCB.
3. The unit has not carried out monitoring of the identified recipient drains at u/s & d/s location through Environment Protection Act, 1986 recognised lab and shall submit the analysis report on monthly basis (by 10th of every month) to CPCB/UEP&PCB.

AND WHEREAS, the unit (M/s. India Glycol Ltd., (Distillery Unit)) is required to implement following measures besides other pollution control measures;

1. To complete connectivity of mass flow meter at the inlet and outlet of MEE within 15 days from the date of issuance of direction and shall provide connectivity of mass flow meter to CPCB /UEP&PCB server.
2. To provide copy of records of alcohol/rectified spirit production, spent wash generation (namely weak spent, strong spent wash) details of MEE operations, mass flow meter readings connected with CPCB server etc. on monthly basis (by 10th of every month) to CPCB/UEP&PCB in the prescribed format (enclosed).

(Contd..5/-)

3. To carry out monthly monitoring of the identified recipient drains at u/s & d/s location through Environment Protection Act, 1986 recognised lab and shall submit the analysis report on monthly basis (by 10th of every month) to CPCB/UEP&PCB.
4. To submit the implementation status report of action taken against the recommendation of adequacy report within 15 days and shall submit the revalidated adequacy assessment report carried out by the institute which has conducted adequacy of assessment and submit the reports within 45 days after resumption of operation.

AND NOW, THEREFORE, in view of the unit's non-compliance to CPCB directions dated 26-06-2017, and in exercise of the powers delegated to the Chairman, CPCB under section 5 of the Environment (Protection) Act, 1986, notice is served herewith to **show cause why appropriate the environmental compensation be not imposed on the unit** (M/s India Glycol Ltd., (Distillery Unit) **and why the unit should not be closed down** until all the necessary pollution control measures are planned and implemented so as to comply with the directions dated 26-06-2017 to the satisfaction of CPCB.

You are hereby given an opportunity to file your objections (if any) to the above proposed direction within 15 days from the receipt of this notice, failing which appropriate action shall be taken against the Unit without giving any further notice, in accordance with provisions of the Environment (Protection) Act, 1986.

/
(S. P. SINGH PARIHAR)
CHAIRMAN

Copy to:

- 1. The Chairman**
Uttarakhand Environment Protection &
Pollution Control Board,
29/20 , Nemi Road, Dehradun,
Uttarakhand"Building
: With request to ensure that the
unit complies with the
directions.
- 2. The Incharge (CP Division)**
Ministry of Environment, Forest & C.C
Prithvi Block, Indira Paryavaran Bhawan,
Jorbagh Road, New Delhi – 110 003
: For Kind information, please.

(Contd..6/-)

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 In-charge, IT Division, CPCB

5. Master file/Guard file WQM II, CPCB, Delhi



(A. SUDHAKAR)
MEMBER SECRETARY

Central Pollution Control Board Format for evaluation of Distillery ETP performance

Format-2 For Distillery (Bio-composting/Incineration section)

| Name of the distillery: _____ | | | | | | | | | | | | | | | | | | | | | |
|---|-------------------------------|--|--|------------|-----------|--|----------------------------------|---------------|---------------|-----------------------------------|------------------------|-------|-------|--------------|-------------------------------|---|-----------------------|---|-----------------------|--|-----------------------|
| Address: _____ | | | | | | | | | | | | | | | | | | | | | |
| Capacity of the distillery: _____ KLPD, _____ Lac lit/annum | | | | | | | | | | | | | | | | | | | | | |
| Distillery ETP Configuration: _____ + _____ + _____ + _____ + _____ | | | | | | | | | | | | | | | | | | | | | |
| BIOCOMPOSTING | | | | | | | | | | | | | | | | | | | | | |
| Date | Press Mud Cake (PMC) Procured | Press Mud Cake (PMC) consumption MT/ Window | Concentrated Spent wash consumption Totalizer Reading | MT/ Window | MT/ Month | Concentrated spent wash to PMIC ratio achieved | Distance travelled by aerotiller | | | Bio-compost Produced MT/ Annam | Quality of Bio-compost | | | | Bio-compost Sold MT/ Annam | Slip (Concentrated spent/wash) feed to the incinerator MT/hr | Totaliser reading, MT | Subsidiary feed to the incinerator MT/hr | Totaliser reading, MT | Steam Generation from Incineration boiler MT/hr | Totaliser reading, MT |
| | | | | | | | M-1 Km/day | M-2 Km/day | M-3 Km/day | | N (%) | P (%) | K (%) | Moisture (%) | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | |

Note- Where per day data is not available, distillery can provide per month or per two months data. Fill-in only applicable data