Speed Post

B-190198/NGRBA(RG)/CPCB/Distillery/16/2016-17 Nov. 28, 2017

To,

M/s Daurala Sugar Works (Distillery Unit)
Daurala, Distt. Meerut,
U.P- 250221

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 Daurala Sugar Works (Distillery Unit) U.P. (hereinafter referred as 'the Unit') is involved in the production of extra neutral alcohol and rectified spirit using molasses as raw material; and

WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB) dated 22.12.2016.

WHEREAS, CPCB issued direction to the unit dated, 16. 06.2017 to comply with the following;

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 UPPCB within 60 days:
   a) Assessment of the manufacturing technology for generation of spent wash 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.

(Contd..2/-)

2. The unit shall install mass flow meters with totalizer 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 & UPPCB servers within 75 days.
3. The unit shall identify recipient drains/ rivulets and their u/s & d/s locations in consultation with UPPCB 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/UPPCB.

WHEREAS, in compliance to Hon'ble NGT directions, team comprising of CPCB, NMCG UPPCB and UP Jal Nigam visited M/s Daurala Sugar Works (Distillery Unit) on 24-25.05.2016 and following observations were made;

1. The unit has Consent to operate for 100 KLD alcohol productions with zero liquid discharge (ZLD) condition.
2. The unit relies completely on ground water and supplemented its steam requirement from Sugar Units.
3. Infrastructure put up for achieving ZLD are settlement Tank, Heat exchanger, Bio-methanation (2-acidic tanks + 3 methanogenic tanks), pump system to pump bio-methanated wastewater to 3 KM distance for storage in 3 number of lagoons, return pumping facility to the plant of the stored effluent, Feed tank, MEE, MEE of 840 KLD capacity, storage tank for Condensate and concentrate, facility for loading of tankers with concentrated/Bio-methanated wastewater.
4. Condensate is used as cooling tower make-up water as reported.
5. Concentrated is used for bio-composting at 3 locations (one within plant area, one at effluent storage area and other one at a further distance of 1 km) cumulatively the available land as report is about 17 acres.
6. The bagging facility of the prepared bio-compost is within the plant premises.
   The units does not have adequate infrastructure to support ZLD system for its consented capacity. The adequacy of ZLD infrastructure is governed by MEE (840 KLD) capacity, which supports 70 KLD production capacity against consented production capacity of 100 KLD.
7. The digested spent wash is conveyed to lagoon located 3 km distant from bio-methanation plant and again returned to a storage tank (feed tank) having capacity of 1400 KL (2/3 was filled with sludge).
8. During inspection, it was informed that spent wash not conveyed to MEE as internal cleaning of MEE was carried out, which takes about 3-4 hours.
9. During inspection, bypass pipe arrangement from MEE feed pump and also a facility to load/fill tankers were observed.

WHEREAS, CPCB issued closure direction dated 26.7.2017 Under Section 5 of the Environment (Protection) Act, 1986, to the unit to dismantle the bypass pipe arrangement immediately from MEE feed pump and discontinue with the facility to load/fill the tanker..

(Contd..3/-)

AND WHEREAS, the unit vide letters dated 3.8.2017 & 25/10/2017 informed about the dismantling of the bypass arrangement; and

WHEREAS, the members of NSI, inspected the unit dated 18.08.2017 and as per the adequacy assessment report, the basic plant machinery of the unit is considered to have adequate equipment capacity/facility for the treatment of effluent (spent wash) for its operation at 100 KLPD. Following are the observation made by NSI, Kanpur;

1. The factory has adopted Fed batch fermentation Distillation section consist of three distillation units having a capacity of 90 KLPD, 40 KLPD and 20 KLPD.
2. The plant is based on atmospheric distillation as well as MPR distillation technology.
3. The unit should take appropriate measures to reduce spent wash generation/litre of alcohol. The unit may adopt MPR system instead of atmospheric distillation for higher efficiency and lower steam requirements.
4. Separate flow meter be shall be installed to ascertain use of raw water/ fresh water at various unit operations so as take measures for reducing its consumption further.
5. The unit shall also create an Environment Division to facilitate maintenance of pollution control norms by engaging trained manpower and also establishing necessary laboratory facilities

AND WHEREAS, the unit was inspected by the officials of Central Pollution Control Board (CPCB), Delhi on 24.10.2017 for the verification of compliance by the unit and following observations are made during the inspection

1. The unit was found non-operational at the time of inspection.
2. The unit has dismantled the bypass pipe arrangement from MEE feed pump.
3. The unit has placed order for mass flow meter.
4. It has been observed that a sub canal named Rajwaha is passing through the premises; the unit has informed that this canal is the property of irrigation department.

AND WHEREAS, CPCB constituted a Three –member committee vide office order dated 27.09.2017 having representative from CPCB, MoEF & CC and NMCG for examination and recommendation for revocation of the closure direction issued by CPCB; and

WHEREAS, The Three member committee in its meeting held on 22.11.2017, examined the adequacy report of the unit, CBCP inspection report of 24/10/2017 and recommended with the condition that, the industry will implement the recommendation of adequacy report & CPCB directions and get it verified from the same institute which carried out the adequacy assessment and submit the verification report to CPCB within 45 days.

AND NOW THEREFORE, in view of the above observations and in exercise of powers delegated under Section 5 of the Environment (Protection) Act, 1986, the unit **(M/s Daurala Sugar Works) is allowed to resume its manufacturing operations** and shall comply with the following;

1. The unit shall submit within 45 days the detailed action plan to replace the distillation technology from atmospheric distillation to MPR system by July 2018.
2. Separate flow meters shall be installed to ascertain use of raw water/ fresh water at various unit operations so as take measures for reducing its consumption further.
3. The unit shall perform the analysis of raw spent wash, treated Bio-methanated spent wash, MEE treated spent wash should be done periodically for main parameters specially pH, COD, BOD, Solid content etc.

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4. The unit shall 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/UPPCB in the enclosed prescribed format.
5. The unit shall provide connectivity of the mass flow meters to CPCB before resumption of the operation.
6. The unit shall carry out monthly monitoring of u/s & d/s location of the Kaili drain as well as the canal flowing through the unit by E(P)A recognised laboratory and submit the monitoring report by 10th of every month to CPCB/UPPCB.
7. The unit shall use concentrated spent wash: press mud ratio of 1:1.6 and shall provide documentation support for procurement/ availability of press mud, sell of compost and compost quality on monthly basis (by 10th of every month) to CPCB/UPPCB in the enclosed prescribed format.
8. The unit shall 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.

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, **(M/s Daurala Sugar Works (Distillery Unit))**, in accordance with the provisions of the Environment (Protection) Act, 1986, without any further notice.

(S. P. SINGH PARIHAR)

CHAIRMAN

Copy to:

1. **The Chairman**
   Uttar Pradesh Pollution Control Board,
   Building No. TC-12V,Vibhuthi Khand,
   Gomti Nagar, Lucknow – 226 010
   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.

3. **The Regional Director**
   Central Pollution Control Board
   PICUP Bhawan, Ground Floor, Vibhuti Khand,
   Gomti Nagar, Lucknow – 226 010
   : For follow up and ensuring compliance

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4. **The District Magistrate,**
   Meerut, U.P.

   With request to ensure compliance of direction

5. **The Executive Engineer,**
   Urja Bhawan
   Paschimanchal Vidyut Vitran Nigam Ltd.,
   Victoria Park, Meerut -25000

   With request to re-connect the power supply for industrial operations.

6. The In-charge, IPC-III, CPCB
7. The In-charge, IT Division, CPCB
8. Master file/Guard file RG Division

(A. SUDHAKAR)

MEMBER SECRETARY

Central Pollution Control Board Format for evaluation of Distillery ETP performance

Name of the distillery:

Adress:

Capacity of the distillery:_____KLPD,_____ **Lac lit/annum**

Date	Raw Spent wash generation as per online mass flow meter		Cumulative Raw Spent wash generation as per online mass flow meter	Conc. Spent wash generation as per online mass flow meter		Cumulative Conc. Spent wash generation as per online mass flow meter	Whether continuty of connectivity of cameras installed at bio-compost/spent wash storage is maintained	If continuety of connectivity is not maintained, please specify the duration of iterruption & reason
	MT/Hr	MT/Day	MT	MT/Hr	MT/day	MT	Yes/ No	

Central Pollution Control Board Format for evaluation of Distillery ETP performance

Format For Distillery

Name of the distillery:

Adress:

Capacity of the distillery:_____KLPD,_____ Lac lit/annum

Date	Raw Spent wash generation as per online mass flow meter		Raw Spent wash Total Solids	Cumulative Raw Spent wash generation as per online mass flow meter totaliser	Conc. Spent wash generation as per online mass flow meter		Conc. Spent wash Total Solids	Cumulative Conc. Spent wash generation as per online mass flow meter totaliser	Condensate quantity generated	Press Mud Cake (PMC) consumption		Concentrated Spent wash consumption		Concentrated spent wash to PMC ratio achieved	Bio-compost Produced	Quality of Bio-compost				Bio-compost Sold
	MT/Hr	MT/Day	%	MT	MT/Hr	MT/day	%	MT	MT/Day	MT/ Windrow	MT/ Month	MT/ Windrow	MT/ Month		MT/ Annum	N (%)	P (%)	K (%)	Moisture (%)	MT/ Annum

Note- Where per day data is not available, distillery can provide per month or per two months data