

**F.No. J-11011/315/2017- IA II(I)**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA-II Division)

Indira Paryavaran Bhawan  
Jorbagh Road, New Delhi - 3  
Dated: 30<sup>th</sup> May, 2018

To,

M/s Dalmia Chini Mills Nigohi-Distillery Division,  
(A unit of Dalmia Bharat Sugar and Industries Limited),  
Hansalaya Building, 11<sup>th</sup> & 12<sup>th</sup> Floor,  
15, Barakhamba Road, **New Delhi** - 1

**Sub: Molasses based Distillery by M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited) at Village Kuiyan, Post Areli, Tehsil Tilhar, District Shahjahanpur (UP) - Environmental Clearance - reg.**

**Ref.: Online proposal No. IA/UP/IND2/65427/2017 dated 12<sup>th</sup> March, 2018**

Sir,

This has reference to your online proposal No. IA/UP/IND2/65427/2017 dated 12<sup>th</sup> March, 2018 for environmental clearance to the above project, along with the documents including Form-1, Terms of Reference (ToR), EIA/ EMP report containing the public hearing proceedings/details.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project 'Molasses based Distillery of 60 KLPD' by M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited) in a total area of 4.5 ha at Village Kuiyan, Post Areli, Tehsil Tilhar, District Shahjahanpur (UP). Raw materials for the proposed distillery & cogeneration power plant of 2.5 MW shall be sourced from their own sugar plant of capacity 10,000 TCD. The product details are as under: -

S. No.	Units	Details	Quantity
1.	Molasses based distillery	Ethanol/ENA/RS/Impure alcohol	60 KLPD
2.	Co-Generation Power Plant (Incineration based )	Power & steam	2.5 MW

3. Total project cost is estimated to be Rs.65 crores. The capital cost earmarked for pollution control measures is Rs.25 crores and the recurring cost (operation and maintenance) shall be about Rs.1 crore per annum. It is proposed to allocate Rs.325 lakhs @ 5.0 % towards Corporate Social Responsibility. It is proposed to develop greenbelt in an area of 1.45 ha, and covering 33% of the total project area. There are no National parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km from the project site.

4. Total water requirement for first cycle of operation is estimated to be 1411 cum/day, out of which fresh water demand of 360 cum/day is proposed to be met from ground water.

Total effluent shall be treated in the state of the art Condensate Polishing Unit/Reverse Osmosis technology. The treated water of 1051 KLD shall be used in the process. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.



5. Power requirement shall be 1.5 MW to be met from proposed 2.5 MW co-generation power plant. The unit shall have one DG set of 1000 kVA capacity to be used for emergency power backup. Stack (height 10 m above roof) shall be provided as per CPCB norms to the proposed DG set.

The unit shall be provided with concentrated spent wash and bagasse/biomass/coal fired boiler of capacity 24 TPH. Electrostatic precipitator with a stack height of 65 m shall be installed to control the particulate emissions for the proposed boiler.

6. (a) Details of process emissions generation and its management.

- (i) Carbon dioxide shall be collected and sold to authorized vendors.
- (ii) Online stack monitoring system shall be installed.

(b) Details of solid waste/ hazardous waste generation and its management:

- (i) Concentrated spent wash generated during molasses operation, shall be concentrated in Multi-effect evaporator and then used as fuel in boiler.
- (ii) Fly ash from the boiler shall be utilized as manure due to rich potash content or sold to fertilizer manufacturers.
- (iii) Filtered sludge shall be mixed with press mud for manufacturing organic manure (bio-composting).
- (iv) Used oil & grease generated from plant machinery/gear boxes as hazardous waste shall be completely burnt in incinerator boiler/ sold out to the CPCB authorized recyclers.

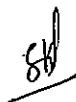
7. The project/activity is covered under category A of item 5(g) 'Distilleries' of Schedule of Environmental Impact Assessment (EIA) Notification, 2006, and requires appraisal at central level by the sectoral EAC in the Ministry.

8. The ToR for the project was granted on 23<sup>rd</sup> August, 2017 and the public hearing was conducted by SPCB on 20<sup>th</sup> February, 2018.

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 36<sup>th</sup> meeting held during 24-26 April, 2018. The project proponent and their accredited consultant J.M. EnviroNet Pvt.Ltd, presented the EIA / EMP report as per the ToR. The Committee found the EIA / EMP Report to be satisfactory and complying with the ToR. The Committee has recommended the proposal for grant of environmental clearance.

10. Based on the proposal submitted by the project proponent and recommendations of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project '**Molasses based Distillery of 60 KLPD**' by M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited) at Village Kuiyan, Post Areli, Tehsil Tilhar, District Shahjahanpur (UP), under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as below:

- (a) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.
- (b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.



- (c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.
- (d) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- (e) Total fresh water requirement shall not exceed 360 cum/day proposed to be met from ground water. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- (f) Industrial/trade effluent shall be segregated into High COD/TDS and Low COD/TDS effluent streams. High TDS/COD shall be passed through stripper followed by MEE and ATFD (agitated thin film drier). Low TDS effluent stream shall be treated in ETP followed by RO to meet the prescribed standards.
- (g) Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- (h) Hazardous chemicals, if any, shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (i) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
- (j) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.
- (k) The company shall undertake waste minimization measures as below:-
  - (i) Metering and control of quantities of active ingredients to minimize waste.
  - (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - (iii) Use of automated filling to minimize spillage.
  - (iv) Use of Close Feed system into batch reactors.
  - (v) Venting equipment through vapour recovery system.
  - (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (l) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (m) All the commitments made regarding issues raised during the public hearing/ consultation meeting shall be satisfactorily implemented.
- (n) At 2% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.



- (o) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (p) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- (q) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (r) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- (s) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (t) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (u) CO<sub>2</sub> generated from the process shall be bottled and sold to authorized vendors.

**10.1** The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or any other statutory authority.
- (ii) No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (iii) The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations each is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- (iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be complied with.
- (v) The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).



- (vi) The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- (vii) Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- (viii) The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing shall be implemented.
- (ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
- (x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xi) The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- (xii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiii) The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- (xiv) The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional offices of MoEF&CC by e-mail.
- (xv) The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the



vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the Ministry.

11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

SK  
30/5/2018

(S. K. Srivastava)  
Scientist E

**Copy to: -**

1. The Principal Chief Conservator of Forests, Forests & Wildlife Department, Government of Uttar Pradesh, 17, Rana Pratap Marg, **Lucknow** - 226001 (UP)
2. The Chief Conservator of Forests (Central Zone), Ministry of Environment, Forest and Climate Change, Regional Office, Kendriya Bhawan, 5<sup>th</sup> Floor, Sector "H", Aliganj, **Lucknow** - 226020 (UP)
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhavan, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, Building. No. TC-12V, Vibhuti Khand, Gomti Nagar, **Lucknow** - 226 010 (UP)
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, **New Delhi**
6. Guard File/Monitoring File/Record File

SK  
30/5/2018

(S. K. Srivastava)  
Scientist E