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

Indira Paryavaran Bhawan
 Jorbagh Road, New Delhi - 110003

Dated: 15th October, 2020

To

M/s Dalmia Chini Mills Nigohi-Distillery Division
 (A unit of Dalmia Bharat Sugar and Industries Limited)
 Village Kuiyan, Post Areli, Tehsil Tilhar
 District Shahjahanpur, Uttar Pradesh

Email: mittal.pradeep@dalmiasugar.com

Sub: Expansion of Molasses based Distillery from 60 KLPD to 110 KLPD by Modernization and enabling usage of B- Heavy Molasses and Cane Juice at Village Kuiyan, Tehsil Tilhar, District Shahjahanpur, Uttar Pradesh by M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited) - Environmental Clearance - reg.

Sir,

This has reference to your proposal No. IA/UP/IND2/168105/2020 dated 14th August 2020, submitting the Form2/PFR report on the above subject matter.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for Expansion of Molasses based Distillery from 60 KLPD to 110 KLPD by Modernization and Enabling usage of B- Heavy Molasses and Cane Juice by M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited) in an area of 4.5 ha located at Village Kuiyan, Tehsil Tilhar, District Shahjahanpur, Uttar Pradesh.

3. The details of products and capacity are as under:

S.No.	Unit	Product	Existing	Proposed	Total
1.	Molasses based distillery	Ethanol/RS/Impure Alcohol/ENA	60 KLPD	50 KLPD	110 KLPD
2.	Co-generation power plant	Power	2.5 MW	---	2.5 MW

4. The existing land area is 4.5 ha (45000 sqm). The proposed expansion will be done within the existing plant premises and no additional land is required. Industry will develop greenbelt in an area of 1.5 ha (15000 sqm) covering 33% of total project area. The estimated project cost is Rs. 10.0 crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 5.0 crores (MEE, upgradation in CPU and recycling units) and the recurring cost (O&M) will be about Rs. 10 lakhs per annum. The project will provide employment for 101 persons (permanent 58 & temporary 43) after expansion. The project proponent has allocated Rs. 10 lakhs (@1%) towards Corporate

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Environment Responsibility.

5. There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/ Elephant Reserves, Wildlife corridors etc., within 10 km from the plant site. Rivers, Kaimua (2.9 km in WNW), Barah (3.0 km in E), Barahi (6km in ESE), Deoha/Garra (6.8 km in SSW) and Katna (7.5 km in W) flows within 10 km from the project site.

6. The total fresh water requirement estimated for 110 KLPD distillery will be 330 KLPD, for 2.5 MW Co- generation power Plant will be 150 KLPD and for domestic usage, greenbelt and others will be 20 KLPD. Thus, total fresh water requirement will be 500 KLPD and will be met from ground water. Effluent of 820 KLPD quantity after expansion will be treated through state of art ETP (Anaerobic, aerobic, Filters, & RO system). There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement after expansion will be 1.75 MW including existing 1.4 MW and will be met from existing 2.5 MW Co-generation Power Plant & DG sets (for emergency). Existing one DG set of capacity 500 KVA, which is used as standby during power failure shall cater to the proposed expansion.

Existing unit has concentrated spent wash & bagasse fired boiler of capacity 24 TPH and no additional boiler will be installed for the expansion. ESP with a stack height of 65 m is installed for controlling the particulate emissions within the statutory limits.

CO₂ generated during the fermentation process will be sold to vendors. Concentrated spent wash will be burnt in boiler along with bagasse. Ash (22 TPD) will be used as manure due to rich potash content or sold to fertilizer manufacturers. Sludge will be dried and given to farmers to be used as soil manure. Used oil generated from the plant machinery/ gear boxes as hazardous waste will be sold out to the CPCB authorized recycler.

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

8. The proposal has been submitted as per para 7(ii) of the EIA Notification, 2006 requesting exemption from fresh terms of reference (ToR), public hearing and EIA report.

9. The Ministry has earlier issued environmental clearance (EC) vide letter dated 30th May, 2018 to the project for Molasses based distillery of 60 KLPD in favor of M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited). The Ministry's Regional Office at Lucknow vide has provided compliance status of the existing EC conditions after conducting site visit on 10th September, 2019. The project proponent has submitted an undertaking dated 16th September, 2020 stating that, for the proposed expansion, the company has not started any modernization or construction activities till date. The ongoing work in the plant is a part of routine operation and maintenance and not related to this expansion proposal, and no violation has been done by the company at any point of time. It was also informed by the project proponent that there is no litigation pending against the project.

10. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its meeting held on 15-17 September, 2020 in the Ministry, wherein the project proponent and their accredited consultant M/s JM EnviroNet Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report complying with the ToR and recommended the project for grant of environmental clearance.

11. The Committee noted that the instant proposal has submitted under provisions of para 7 (ii) of the EIA Notification, 2006. The Committee deliberated the compliance status of earlier environmental clearance submitted by project proponent and found in order. The Committee has also deliberated on the justification submitted by the project proponent on the non-complied points and has noted that the reported ongoing work in the plant is a part of routine maintenance and not for the proposed project. It was also noted that there is no litigation pending against the project. There is no major impact envisaged on the environment due to the modernization of the plant.

The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with PFR report prepared and submitted by the Consultant accredited by the QCI/ NABET on behalf of the Project Proponent.

The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the PFR report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

The Committee noted that the Form 2/PFR report is in compliance of the notification/guidelines/OMs issued by the Ministry for such projects, reflecting the present environmental concerns and the projected scenario for all the environmental components. The compliance of the existing EC conditions found to be satisfactory. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have recommended for grant of Environmental Clearance as per para 7(ii) of the EIA Notification, 2006 exempting ToR, fresh public hearing and EIA report.

12. The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

13. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Expansion of Molasses based Distillery from 60 KLPD to 110 KLPD by Modernization and enabling usage of B-Heavy Molasses and Cane Juice by M/s Dalmia Chini Mills Nigohi-Distillery Division (A unit of Dalmia Bharat Sugar and Industries Limited) at Village Kuiyan, Tehsil Tilhar, District Shahjahanpur, Uttar Pradesh**, under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under:-

- (i). The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the


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recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.

- (ii). As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises. Treated effluent shall be reused in the process/utilities. Treated Industrial effluent shall not be used for gardening/greenbelt development/horticulture.
- (iii). As proposed, total fresh water requirement shall be 500 cum/day, proposed to be met from ground water source. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time.
- (iv). The project proponent shall ensure rain water harvesting system in the project area and reduce dependency on ground water.
- (v). The spent wash/other concentrates shall be incinerated.
- (vi). CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.
- (vii). Occupational health centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (viii). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (ix). 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.
- (x). Process organic residue and spent carbon, if any, shall be sent to Cement other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xi). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xii). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xiii). As committed, project proponent shall allocate Rs. 10 Lakhs @1% of total project cost towards Corporate Environment Responsibility as per the Ministry's OM dated 01.05.2018. The CER shall be utilized properly to address the socio-economic and environmental issues in the study area. The CER plan shall be completed within three year of expansion of the project.
- (xiv). The project proponent shall develop solar power facilities and majority of the lighting facility in the unit shall be met from solar.

- (xv). 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.
- (xvi). Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (xvii). 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.
- (xviii). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

13.1 The grant of environmental clearance is further subject to compliance of other general conditions as under:-

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- (ii) The energy source for lighting purpose shall be preferably LED based, or advance having preference in energy conservation and environment betterment.
- (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 station 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 16th November, 2009 shall be followed.
- (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 to utilize the same for process requirements.
- (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 undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented.
- (ix) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (x) A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) 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, ZillaParishad/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 31st 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 and at **<https://parivesh.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.
- (xvi) The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.
- (xvii) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.


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14. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

15. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.

16. Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

17. The above conditions shall 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, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and Rules and any other orders passed by the Hon'ble Supreme Court of India / High Courts and any other Court of Law relating to the subject matter.

18. This issues with approval of the competent authority.

15/10/2020
(Dr. R. B. Lal)

Scientist 'E'/Additional Director

(Dr. R. B. Lal)
वैज्ञानिक 'ई'/Scientist 'E'
पर्यावरण, वन एवं जलवायु परिवर्तन मंत्रालय
Min. of Environment, Forest and Climate Change
भारत सरकार, नई दिल्ली
Central Pollution Control Board, New Delhi

Copy to: -

1. The Deputy DGF (C), MoEF&CC Regional Office (CZ), Kendriya Bhawan, 5th Floor, Sector "H", Aliganj, Lucknow (UP) - 20
2. The Secretary, Department of Environment, Government of Uttar Pradesh, 601, Bapu Bhawan, Secretariat, Vidhan Sabha Marg, Lucknow (UP) - 1
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32
4. The Member Secretary, Uttar Pradesh Pollution Control Board, Building No. TC-12V, Vibhuti Khand, Gomti Nagar, Lucknow - 10
5. The Member Secretary, Central Ground Water Authority, 18/11, Jamnagar House, Mansingh Road, New Delhi - 11
6. The District Collector, District Shahjahanpur (Uttar Pradesh)
7. Guard File/Monitoring File/Website/Record File

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