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F.No.IA-J-11011/64/2019- IA II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Vayu Wing, IIIrd Floor
Indira Paryavaran Bhawan
Jorbagh Road, New Delhi - 110003

Dated: 28th December, 2020

To

M/s Mawana Sugar Works (Distillery Division)
Mawana Sugars Limited, Mawana
District Meerut, Uttar Pradesh-845105

Email: brajeshsrivastav@mawanasugars.com

Sub: Setting up 120 KLD Molasses based Distillery along with 7 MW Co-generation Power Plant at Village Mawana Kalan, Block & Tehsil Mawana, District Meerut, Uttar Pradesh by M/s Mawana Sugar Works (Distillery Division) -Environmental Clearance - regarding

Sir,

This has reference to your proposal No.IA/UP/IND2/98046/2019 dated 19th October, 2020, submitting the EIA/EMP 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 Setting up 120 KLD Molasses based Distillery along with 7 MW Co-generation Power Plant by M/s Mawana Sugar Works (Distillery Division) in an area of 4.88 ha located at Village Mawana Kalan, Block & Tehsil Mawana, District Meerut, Uttar Pradesh.

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

S. No.	Product Details	Quantity
1	Distillery (RS /Ethanol)	120 KLD
2	Co-Gen Power	7.0 MW

4. The land area available for the project is 4.88 hectare. Industry will develop greenbelt in an area of 1.61 ha covering 33 % of total project area. The estimated project cost is Rs. 16000 lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs. 4500 lakh and the recurring cost (O&M) will be about Rs. 450 lakhs per annum. The project will provide employment for 499 persons directly & indirectly. Industry proposes to allocate Rs. 290 Lakhs towards Corporate Environmental Responsibility.

5. The Hastinapur Wildlife Sanctuary is at 8.52 km in East direction from the project site. Application for NBWL clearance has been submitted. Ganga Canal flows at a distance of 0.86 Km in the East direction.

EC for M/s Mawana Sugar Works (Distillery Division)

6. Total water requirement is estimated to be 2400 cum/day, which includes fresh water requirement of 720 cum/day, proposed to be met from ground water. Spent wash of 744KLD will be concentrated in MEE and incinerated in Slop fired boiler of capacity 47 TPH. Other waste water generated from cooling tower blow down, boiler blow down, vacuum pump, process condensate will be treated in CPU and recycled in the process. The plant will be based on Zero Liquid discharge system.

Power requirement after expansion will be 3000 KW, which will be met from Co-generation power plant of 7MW, State power Distribution Corporation Limited (SPDCL) & DG Set (1 x 1000 KVA). Adequate Stack (6.5 meters above roof top) will be provided as per CPCB norms to the proposed DG set.

Unit shall install 47TPH Slop fired boiler. Electro Static Precipitator (ESP) with a stack of height of 75 m will be installed for controlling the particulate emissions within the statutory limit of 50 mg/Nm³ for the proposed boilers. It is estimated that 90 TPD CO₂ will be emitted. Fly ash generated and fermenter sludge will be utilized as manure.

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 Standard terms of reference (ToR) was issued by the Ministry vide letter dated 12th March 2019. Public hearing for the project has been conducted by the State Pollution Control Board on 18th December, 2019, which was presided over by the Additional District Magistrate. The main issues raised during the public hearing are related to employment for the local people. It is informed by the project proponent that no litigation is pending against the proposal.

9. The proposal was considered by the Expert Appraisal Committee (Industry-3) in its meeting held on **17-19 November, 2020** in the Ministry, wherein the project proponent and their accredited consultant M/s Environmental and Technical Research Centre 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.

10. 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 EIA 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 EIA/EMP 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 EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data and incremental GLC due to the proposed project within NAAQ standards. The Committee has also deliberated on the public hearing issues, action plan along with activities for addressing the

socio-economic issues and found to be addressing the issues in the study area. The Committee noted that the project proponent has proposed conservation plan with Rs. 17.86 lakhs.

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.

11. 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.

12. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-3), Ministry of Environment, Forest and Climate change hereby accords environmental clearance to the project for **Setting up 120 KLD Molasses based Distillery along with 7 MW Co-generation Power Plant by M/s Mawana Sugar Works (Distillery Division) at Village Mawana Kalan, Block & Tehsil Mawana, District Meerut (UP)**, under the provisions of the EIA Notification, 2006, subject to the compliance of terms and conditions as under:-

- (i). The environmental clearance is subject to obtaining prior clearance from the wildlife angle, including clearance from the Standing Committee of the National Board for Wildlife, as applicable, as per the Ministry's OM dated 8th August, 2019. Grant of environmental clearance does not necessarily imply that Wildlife Clearance shall be granted to the project and that their proposal for Wildlife Clearance will be considered by the respective authorities on its merit and decision taken.
- (ii). 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, and risk mitigation measures relating to the project shall be implemented.
- (iii). 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.
- (iv). As proposed, total fresh water requirement shall be 720 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.
- (v). Project Proponent want to install incineration boiler for treatment of spent wash to ensure ZLD. As committed by PP, 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 management/incinerations.
- (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). The activities and the action plan proposed by the project proponent to address the public hearing and socio-economic issues in the study area, shall be completed as per the schedule presented before the Committee and as described in the EMP report in letter and spirit. All the commitments made during public hearing shall be satisfactorily implemented.
- (xiv). The conservation plan proposed with Rs. 17.86 lakhs shall be implemented in consultation with State Forest/Wildlife Department.
- (xv). The project proponent shall ensure rain water harvesting system in the project area and reduce dependency on ground water.
- (xvi). 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.
- (xvii). Project Proponent shall reduce the quantity of effluents generation in the unit and PP shall install the effective wastewater treatment system. Adequate system shall be in place for controlling the odour and mitigation measures to protect the contamination of ground/surface water.
- (xviii). Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (xix). 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.
- (xx). 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.

12.1 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 solar/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. The activities shall be undertaken by involving local villages and administration.
- (ix) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (x) 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.
- (xi) 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.

- (xii) 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.
- (xiii) 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.
- (xiv) 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.
- (xv) 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.
- (xvi) 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.

13. 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.

14. 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.

15. 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.

16. 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.

17. This issues with approval of the competent authority.

28/12/2020

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Min. of Environment, Forest and Climate Change
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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, Babu 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 Meerut, Uttar Pradesh
7. Guard File/Monitoring File/Website/Record File/Parivesh Portal

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