

F. No.J-11011/137/2018-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA- II Section)

Indira Paryavaran Bhawan  
Jor bagh Road, New Delhi -3  
Dated 12<sup>th</sup> February, 2019

To

M/s DCM Shriram Limited  
Village Ajbapur, Tehsil Mohammadi  
District **Lakhimpur Kheri**- 261505 (UP)

**Sub: Setting up 225 KLPD Molasses based Distillery by M/s DCM Shriram Limited at Village Ajbapur, Tehsil Mohammadi, District Lakhimpur Kheri (Uttar Pradesh)-Environmental Clearance-reg.**

Sir,

This has reference to your proposal No.IA/UP/IND2/84145/2018dated2<sup>nd</sup> November 2018, 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 molasses based distillery of capacity 225 KLPD (Ethanol/ENA/RS/Impure Alcohol) by M/s DCM Shriram Limited in an area of 105218 sqmat Village Ajbapur, Tehsil Mohammadi, District Lakhimpur Kheri (UP). The project also involves installation of 12 MW Co-Generation Power Plant.

3. The land area available for the project is 105218 sqm (26 acres), out of which greenbelt will be developed in an area 34398.3 sqm covering 33% of the total project area. Total project cost is estimated to be Rs.250 crores. Total capital cost earmarked towards environmental pollution control measures is Rs.75 crores and the recurring cost (operation and maintenance) will be about Rs.6 crores per annum. Total employment opportunity will be for 100 persons directly and 2000 persons during construction. Industry proposes to allocate Rs375 lakhs towards Corporate Environment Responsibility.

4. There are no National parks, Wildlife sanctuaries, Biosphere reserves, Tiger/Elephant reserves, Wildlife corridors etc. within 10 km from the project location. Chhuha Nala is flowing at a distance of 0.4 km in East, Sarda canal is at 1.5 km in WSW, Bhainsta Nala is at 4.0 km in SW and Gomati river is flowing at a distance of 6km in East.

5. Total water requirement for the industrial operations is estimated to be 5805 cum/day, out of which fresh water requirement would be 2205 cum/day (10KL/KL of alcohol), proposed to be met from ground water. Fresh water requirement is proposed to be reduced to 1800 cum/day (8KL/KL of alcohol) with improvement in process and cooling tower efficiency. Application for ground water withdrawal has been submitted to CGWA vide letter dated 25<sup>th</sup> October, 2018.

Spent wash of 2313 KLD will be treated through multi effect evaporators (MEE) followed by incineration in slop fired boiler. Other effluents will be treated in Condensate Polishing Unit. After treatment, effluent of 4005 cum/day will be recycled and reused in the process. There will be no discharge of treated/untreated waste water from the unit, and thus ensuring Zero Liquid Discharge.

Power requirement will be 6 MW, which will be sourced from Co-generation power plant of 12 MW. Two D.G sets of 1500 KVA each will be kept as standby for emergency purpose. Stack height of 12 m above roof level will be provided as per CPCB norms to the proposed DG sets.



The unit will have a 90 TPH concentrated spent wash and rice husk/bagasse/coal fired boiler. Bag Filter with stack height of 84 m as per CPCB standards will be installed to control the particulate emissions within the statutory limit.

Carbon Di-oxide will be collected through scrubbers and sold to authorized vendors. Concentrated spent wash will be burnt with supplementary fuel (Bagasse/Rice Husk/Coal) in the Slop fired boiler. Fly ash from the boiler will be used for soil amelioration due to its rich potash content. Sludge will be used as manure after processing with fly ash for soil amendment or burnt in boiler. Used oil & grease generated from plant machinery/gear boxes will be sold out to the authorized recyclers.

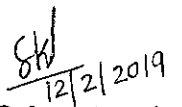
6. The project/activities are covered under category A of item 5 (g) 'Distilleries' of the Schedule to the Environment Impact Assessment Notification, 2006, and requires appraisal/approval at central level in the Ministry.

7. The terms of reference for the project was granted on 18<sup>th</sup> May, 2018. Public hearing was conducted by the State Pollution Control Board on 4<sup>th</sup> October, 2018.

8. The proposal for environmental clearance was placed before the EAC (Industry-2) in its meeting held on 26-27 November, 2018 in the Ministry. The project proponent and their consultant M/s J M EnviroNet Pvt Ltd presented the EIA/EMP report as per the ToR. The Committee found the EIA/EMP report satisfactory and in consonance with the ToR, and recommended the proposal for environmental clearance with certain conditions.

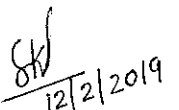
9. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Setting up Molasses based Distillery of capacity 225 KLPD by M/s DCM Shriram Limited** at Village Ajbapur, Tehsil Mohammadi, District Lakhimpur Kheri (UP), under the provisions of the EIA Notification, 2006, read with subsequent amendments therein, subject to compliance of the terms and conditions as environmental safeguards, as per **Annexure**.

10. 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.

  
(S. K. Srivastava)  
Scientist E

**Copy to:-**

1. The Additional PPCF (C), MoEF&CC, Regional Office (CZ), Kendriya Bhawan, 5<sup>th</sup> 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. Guard File/Monitoring File/Website/Record File

  
(S. K. Srivastava)  
Scientist E

**Environmental clearance to the project for Setting up Molasses based Distillery of 225 KLPD by M/s DCM Shriram Limited at Village Ajbapur, Tehsil Mohammadi, District Lakhimpur Kheri (UP)**

[F.No.IA-J-11011/137/2018-IA-II(I); Proposal No.IA/UP/IND2/84145/2018 dated 2<sup>nd</sup> November, 2018]

**Terms and Conditions**

- (i) 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.
- (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.
- (iii) 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.
- (iv) 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.
- (v) Total fresh water requirement shall not exceed 1800 cum/day proposed to be met from ground water source. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- (vi) The spent wash shall be taken to multi effect evaporators (MEE) and the concentrated spent wash shall be incinerated in the boiler.
- (vii) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- (viii) 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.
- (ix) 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.
- (x) 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.
- (xi) 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

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along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.

- (xii) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (xiii) At least 1.5% 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.
- (xiv) 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.
- (xv) 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.
- (xvi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (xvii) 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.
- (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) CO<sub>2</sub> generated from the process shall be bottled/made solid ice and sold to authorized vendors.
- (xxi) 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.

### **General Conditions**

- (i) The project authorities shall adhere to the stipulations made by the State Pollution Control Board, Central Pollution Control Board, State Government and 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 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 16<sup>th</sup> November, 2009 shall be followed.

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- (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 also 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.
- (ix) 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.
- (x) The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (xi) A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- (xii) 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.
- (xiii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- (xiv) 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.
- (xv) 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.



- (xvi) 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.
- (xvii) 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.

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