



**Yogendra Pal Singh**  
**Scientist 'D'**

Government of India  
Ministry of Environment, Forest and Climate Change  
(IA Division)

Indira Paryavaran Bhawan  
Aliganj, Jor Bagh Road  
New Delhi - 110 003

F. No. J-11011/62/2016-IA.II (I)

Telefax: 91-11-24695365  
E-mail : [yogendra78@nic.in](mailto:yogendra78@nic.in)

Dated: 02<sup>nd</sup> May, 2017

To,

**The Whole Time Director-EHS**  
**(Dr. N. J. Singh)**  
**M/s DCM Shriram Ltd.**  
**1<sup>st</sup> Floor, Kanchenjunga Bldg.,**  
**18, Barakhamba Road,**  
**New Delhi - 110 001**

**Sub: Setting up of 200 KLPD Molasses Based Distillery along with 6.0 MW Cogeneration Power Plant at village Hariawan, Tehsil & District Hardoi, Uttar Pradesh by M/s DCM Shriram Ltd. - Environmental Clearance - reg.**

**Ref.: Your online proposal no. IA/UP/IND2/48115/2016; dated 23<sup>rd</sup> December, 2016.**

Sir,

This has reference to your online proposal no. IA/UP/IND2/48115/2016; dated 23<sup>rd</sup> December, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding above mentioned project.

2.0 The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for Setting up of 200 KLPD Molasses Based Distillery along with 6.0 MW Cogeneration Power Plant at village Hariawan, Tehsil & District Hardoi, Uttar Pradesh by M/s DCM Shriram Ltd. The total plant area is 16.75 ha (41.39 acres), 5.53 ha (13.67 acres) of the total plant area will be developed as greenbelt/plantation. The total cost of the proposed project is ₹ 188 crores. Capital cost for Environmental Protection Measures will be ₹ 40 Crores and Recurring Cost will be ₹ 4 Crores/annum. No forest area/National Park/Sanctuary exists within 10km radius of the study area. Sai River (Seasonal River-800m), Bhainsta River (1km-Seasonal River) Baruan Jhil (Seasonal Lake-2km) and Lucknow Branch Canal (6.0 km) are located within 10 km distance of the project site. 145 persons will be employed in the proposed plant. The number of working days of the unit will be 330 days/annum. The PP proposed unit consist the following:

| S. No. | Unit                      | Proposed Capacity |
|--------|---------------------------|-------------------|
| 1      | Molasses based Distillery | 200 KLPD          |
| 2      | Co-Generation Power Plant | 6 MW              |

3.0 The water requirement for the proposed project will be 1792KLPD which will be sourced from ground water & rainwater.

The total power requirement for proposed project will be 5.4 MW which will be sourced from proposed 6.0 MW Co-Generation Power Plant & 2 x 1500 KVA of D.G. set (for back up).

The fuel used for the boiler will be Concentrated Spent wash along with Bagasse or Rice Husk (250 MT/day)/Coal (150 MT/day). Spent wash will be generated in-house (from MEE), bagasse will be obtained from own sugar mills and coal/rice husk from local vendors. Spent wash generated from the analyzer column during the operation, will be concentrated in Multi -Effect Evaporator (MEE) from initial 12% solid to 55% solid and transferred for complete incineration in a special boiler designed for spent wash. Complete spent wash will be concentrated and incinerated. Used oil & grease generated from plant machinery/gear boxes as hazardous waste will be sold out to the authorized recycler. Water Treatment System and CPU will be installed. The process condensate from MEE will be treated and recycled back in the process.

An Electrostatic Precipitator with stack of 60 m height will be installed to control the particulate and gaseous emissions due to combustion of fuel. The project will be based on "Zero Effluent Discharge". Concentrated spent wash will be incinerated with supplementary fuel (Bagasse/Rice Husk/Coal) in the incineration boiler. Ash from the boiler will be supplied to brick manufacturers/soil amendment.

4.0 Public Hearing for the proposed project was conducted on 15<sup>th</sup> November, 2016 by Uttar Pradesh Pollution Control Board.

5.0 All molasses based distilleries are listed at Sl. No. 5(g) (i) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

6.0 The Terms of References (TORs) was awarded in the 7<sup>th</sup> Meeting of the Expert Appraisal Committee (Industry) held during 28-29<sup>th</sup> April, 2016 for preparation of EIA-EMP report. Ministry has issued the TOR vide letter dated 21<sup>st</sup> June, 2016.

7.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 18<sup>th</sup> EAC meeting held during 23-25<sup>th</sup> January, 2017. Project Proponent and the EIA Consultant namely M/s J. M. Environet Pvt. Ltd., have presented EIA/EMP report as per the TOR. EAC has found the EIA/EMP Report to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

8.0 Based on the information submitted by the project proponent, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. Specific Conditions:**

- i. Electrostatic Precipitator shall be provided to the bagasse/slope fired boiler to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

- ii. Total fresh water requirement after expansion project from ground water shall not exceed 1792KLPD and prior permission should be obtained from the CGWA/SGWA. PP shall ensure rainwater harvesting and shall install piezometer for water recharge monitoring.
- iii. Spent wash generation from molasses based distillery shall not exceed 8 Kl/Kl of alcohol. The spent wash from molasses based distillery shall be treated in MEE followed by incineration boiler. Effluent from spentlees, utilities effluent and evaporator Condensate shall be treated in Condensate Polishing Unit (Secondary ETP followed by RO) and recycled/reused in process. No effluent shall be discharged outside the premises and 'Zero' discharge shall be maintained.
- iv. Spent wash shall be stored in impervious RCC lagoons with proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. The storage of spent wash shall not exceed 5 days capacity.
- v. As proposed, no effluent from distillery shall be discharged outside the plant premises and Zero discharge shall be adopted. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.
- vi. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- vii. The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.
- viii. Continuous online (24 x 7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MoEF&CC, CPCB and SPCB.
- ix. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Lucknow and SPCB.
- x. Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.
- xi. Boiler ash from distillery as well as sugar plant shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Proper ash management for its end use to drawn and consent to be obtained accordingly.
- xii. Fire fighting system shall be as per the norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol storage tank. DMP shall be implemented.



- xiii. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre shall be strengthened and the regular medical test records of each employee shall be maintained separately.
- xiv. Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xv. As proposed, green belt shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO. PP shall plant at least 1000 perennial trees.
- xvi. An Environment Cell will be set up with one environmental Manager having post graduate qualification in environmental sciences/Environmental engineering.
- xvii. All the commitments made during the Public Hearing/Public Consultation meeting held on 15<sup>th</sup> November, 2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xviii. All the activities committed in the ESR vide letter dated 24.01.2017 has to be implemented. At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Lucknow. Implementation of such program shall be ensured accordingly in a time bound manner.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), 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 and Forests. 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 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.
- 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).

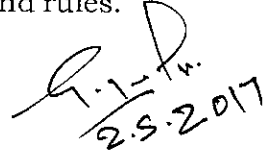


- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vii. Training shall be imparted to all employees on safety and health aspects of 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, risk mitigation measures and public hearing 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. CSR 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 and Forests 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, 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.
- 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, 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 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 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.

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

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

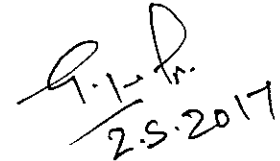
11.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
2.5.2017

**(Yogendra Pal Singh)**  
**Scientist 'D'**

**Copy to:-**

1. The Principal Secretary, Department of Environment, Government of Uttar Pradesh, Sachivalaya, Bapu Bhawan, Adjacent to Vidhan Sabha, Lucknow - 226 001, Uttar Pradesh.
2. The Chief Conservator of Forests, Regional Office (Central Zone, Lucknow) Kendriya Bhavan, 5<sup>th</sup> Floor, Sector-H, Aliganj, Lucknow - 226 024.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Uttar Pradesh Pollution Control Board, PICUP Bhawan, Vibhuti Khand, Gomti Nagar, Lucknow, Uttar Pradesh.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh, New Delhi.
6. Guard File/Record File/Notice Board.

  
2.5.2017

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