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Government of India
Ministry of Environment, Forest and Climate Change
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Dated: 08th June, 2017

To,

The Director
Shri C. L. Shukla
M/s Majhulia Sugar Industries Pvt. Ltd.
P-7, Transport Depot Road,
Kolkata - 700 088

Sub: Setting up of 45 KLPD (RA/ AA/ ENA) Molasses/grain based distillery and 2 MW Co-generation Unit at village P.O. Majhulia, Tehsil Majhula, District West Champaran, Bihar by M/s Majhulia Sugar Industries Pvt. Ltd. - Environmental Clearance - reg.

Ref.: Your online proposal no. IA/BR/IND2/50479/2016; dated 31st January, 2017.

Sir,

This has reference to your online proposal no. IA/BR/IND2/50479/2016; dated 31st January, 2017 along with project documents including Form I, Terms of References, Pre-feasibility Report along with EIA/EMP 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 45 KLPD (RA/AA/ENA) Molasses/grain based distillery and 2 MW Co-generation unit at village P.O. Majhulia, Tehsil Majhula, District West Champaran, Bihar by M/s Majhulia Sugar Industries Pvt. Ltd. Total plot area is 40468 m² (10 acres), of which 14176.14 m² (35%) will be developed as green belt. Total Cost for the project is ₹ 97 Crores, out of which cost earmarked for EMP will be ₹ 8 crore and Recurring Cost will be ₹ 1.5 crore/annum. About 82 peoples will be employed under this expansion project.

3.0 No forest area/National Park/Sanctuary exists within 10km radius of the study area.

4.0 The number of working days of the unit will be 330 days/annum. Molasses will be used as raw material. Molasses will be sourced from own Sugar mill and transportation by tankers/Pipeline. Grains (Broken Rice/Maize/Sorghum/Bajra/Wheat) will be met from nearby market through trucks.

5.0 Total Water Requirement on Molasses based is 450 KL/day and Water Requirement on Grain based is 360 KL/day and will be met by the ground water.

During molasses based operation Spent wash will be treated in MEE (Multiple Effect Evaporator), then the semisolid waste from MEE (Multiple Effect Evaporator) will be sent in specially designed boiler for incineration. Condensate will be treated in condensate polishing unit and will be used as water in cooling tower. A duly lined lagoon of 30 days capacity shall be provided.

During Grain based operation the DWGA (Distillers Wet Grains Soluble) dryer will be installed to dry the Semi-Solid waste. Condensate will be treated in condensate polishing unit and will be used as make-up water in cooling tower. A duly lined lagoon of 7 days capacity will be provided.

Total power requirement is 1040 KW which will be sourced from own CPP. One D.G. sets of 600 KVA with adequate stack height will be installed for the power backup. Bagasse/rice husk/coal fired boiler of 20 TPH will be installed and ESP will be installed with adequate stack height to control particulate pollution.

Boiler ash collected from ESP is also rich in potassium and can be disposed of as blending in NPK fertilizer. The other solid wastes expected from the unit are containers, empty drums which are returned to the product seller or sold to authorize buyers after detoxification. In the Grain operation the Semi-Solid will be dried and sold to farmer for Cattle Feed.

6.0 Public Hearing for the proposed project was conducted on 12th January, 2017 by Bihar Pollution Control Board.

7.0 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).

8.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 19th EAC meeting held during 6th - 7th February, 2017. Project Proponent and the EIA Consultant namely M/s Vardan 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.

9.0 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 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

- i. ESP shall be provided to the Bagasse/rice husk/coal fired boiler of 20 TPH 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 shall not exceed 350 m³/day project from ground water 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 (Multiple Effect Evaporator), then the semisolid waste from MEE (Multiple Effect Evaporator) will be sent in specially designed boiler for incineration. Condensate will be treated in condensate polishing unit and will be used as water in cooling tower. During Grain based operation the DWGA (Distillers Wet Grains Soluble) dryer will be installed to dry the Semi- Solid waste. Condensate will be treated in condensate polishing unit and will be used as make-up water in cooling tower. A duly lined lagoon of 7 days capacity will be provided.
- iv. As proposed, no effluent from distillery shall be discharged outside the plant premises and **Zero Liquid Discharge shall be adopted**. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.
- v. 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.
- vi. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- vii. Continuous online (24x7) 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 MEF&CC, CPCB and SPCB.
- viii. 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 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 and SPCB.
- ix. Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.
- x. 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.
- xi. 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.
- xii. 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.

- xiii. 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.
- xiv. As proposed, green belt shall be developed in 14176.14 m² (35 %) area within plant premises with at least 10 meter wide green belt (perennial trees) 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.
- xv. An Environment Cell will be set up with One Environmental Manager having post graduate qualification in Environmental Sciences/ Environmental Engineering.
- xvi. All the commitments made during the Public Hearing/Public Consultation meeting held on 12th January, 2017 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xvii. At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment based on Public Hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.

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 station 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 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, ZilaParisad/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 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 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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10.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.

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

12.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of 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.


D.6.2017

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Copy to:-

1. The Principal Secretary, Forests & Environment Department, Government of Bihar, 1st Floor, N.H Bhawan, Vishweshwaraiya Complex, Bailey Road, Patna, Bihar – 800 001
2. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office, (EZ) A-3, Chandrashekharapur, Bhubaneswar – 715 023.
3. The Chairman, Central Pollution Control Board Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Bihar State Pollution Control Board, Beltron Bhawan, 2nd Floor, Lal Bahadur Shastri Nagar, Patna – 800 023, Bihar.
5. Monitoring Cell, Ministry of Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
6. Guard File/Monitoring File/Record File.


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