

F. No. J-11011/273/2015-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

Indira Paryavaran Bhawan  
Aliganj, Jorbagh Road,  
New Delhi - 110 003

Telefax: 011-24695365  
E-mail: yogendra78@nic.in

Dated: 22<sup>nd</sup> February, 2017

To

The Chief Executive Officer  
M/s Om Sugars Limited,  
Classique Hts, Flat No. 203,  
S. P. Office Road, Kolhapur Circle,  
Belagavi, Karnataka - 590 016

**Sub: Setting up of molasses based 30 KLPD distillery plant along with 1 MW Captive Power Plant at Sy. No. 37, Jainapur Village & Post, Chikodi Taluk, Belagavi District, Karnataka by M/s Om Sugars Limited - Environmental Clearance - reg.**

**Ref: Online Proposal No. IA/KA/IND2/32369/2015 dated 22<sup>nd</sup> August, 2016**

Sir,

This has reference to your online proposal no. IA/KA/IND2/32369/2015 dated 22<sup>nd</sup> August, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for setting up of molasses based 30 KLPD (Rectified Spirit / ENA/Ethanol) distillery plant along with 1 MW Captive Power Plant at Sy. No. 37, Jainapur Village & Post, Chikodi Taluk, Belagavi District, Karnataka by M/s Om Sugars Limited. As informed and as per the documents submitted by the Project Proponent (PP), the total plot area is 19.35 Acres, out of which, area earmarked for greenbelt is 7.0 acres. The cost of the project is ₹ 52.37 crores, out of which capital cost and Recurring cost/annum will be ₹8.12 crores and ₹2.59 crores for environmental management plan. It is reported that there is no National Parks/Wildlife Sanctuaries/Biosphere Reserves/Reserve Forest located within 10 km radius area of the project site. The distillery plant will be operated for a maximum of 270 days/annum. The company will manufacture the following products in the proposed plant:

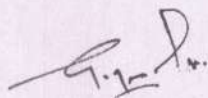
S. No	Product list	Capacity
1	Rectified spirit/ ENA/ Ethanol	30 KLPD
2	CO-gen power plant	1.0 MW
<b>By product</b>		
3	CO <sub>2</sub>	22.8 TPD
4	Biomanure	5400 TPA
5	Biogas	430 m <sup>3</sup> /hr

3. All molasses based distilleries are listed at S. No. 5(g) (i) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).
4. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 3<sup>rd</sup> meeting held during 18<sup>th</sup>-19<sup>th</sup> January, 2015 and 14<sup>th</sup> meeting held during 26<sup>th</sup> to 27<sup>th</sup> October, 2016. The Project Proponent and the accredited Consultant M/s Pioneer Enviro Laboratories & Consultants Pvt. Ltd., Hyderabad, gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per Terms of References (TORs) awarded in the 3<sup>rd</sup> meeting of EAC held during 18<sup>th</sup>-19<sup>th</sup> January, 2015 for preparation of EIA-EMP report. The TOR letter has been issued by Ministry vide letter even no. dated 05<sup>th</sup> March, 2016.
5. The PP has informed the EAC that the ambient air quality (AAQ) monitoring was carried out at 8 locations during December, 2015 to February, 2016. The baseline data indicates the ranges of concentrations as:- PM<sub>10</sub> (15.7 µg/m<sup>3</sup> to 52.3 µg/m<sup>3</sup>), PM<sub>2.5</sub> (10.2 µg/m<sup>3</sup> to 31.3 µg/m<sup>3</sup>), SO<sub>2</sub> (6 µg/m<sup>3</sup> to 12.5 µg/m<sup>3</sup>), NO<sub>x</sub> (6.1 µg/m<sup>3</sup> to 15.7 µg/m<sup>3</sup>) and CO (220 µg/m<sup>3</sup> to 536 µg/m<sup>3</sup>). AAQ modeling study for point source emissions indicates that the maximum incremental ground level concentrations (GLCs) after the proposed project would be 0.43 µg/m<sup>3</sup> and 4.3 µg/m<sup>3</sup> with respect to PM and NO<sub>x</sub>. The resultant concentrations are within the National Ambient Air Quality Standards.
6. The PP has informed that the sugar and co-gen unit has three boilers of 20 TPH, 20 TPH and 35 TPH respectively. Air pollution control device for bagasse fired boiler is wet scrubber. Steam requirement for the proposed distillery project will be met from the 10 TPH Bagasse fired boiler. ESP will be provided to the proposed Bagasse fired boiler as pollution control measures and will be connected with 30 m stack height.
7. The PP has informed that the total water requirement of the project will be 660 m<sup>3</sup>/day. Out of which fresh water requirement will be 300 m<sup>3</sup>/day and will be sourced from Doodh Ganga River and harvested rain water. Total wastewater generation from proposed project will be 355 m<sup>3</sup>/day. Spent wash will be treated Bio digester followed by Multiple Effect Evaporator (MEE). The Concentrated biomethanated spent wash will be sent to bio-composting by utilizing the press mud from the sugar plant. Plant is based on the Zero Liquid Discharge scheme. Yeast sludge will be bio-composted along with Biomethanated evaporated spent wash. Boiler ash and sludge from the ETP will be used as manure.
8. Public Hearing for the proposed project has been conducted by the Karnataka State Pollution Control Board on 02<sup>nd</sup> July, 2016. The EAC has deliberated upon the issues raised during the public hearing. The concerns were raised regarding pollution control equipments and technologies, noise pollution, treatment of trade waste and spent wash, sale of boiler ash to cane suppliers free of cost, sale of manure to farmers at cheaper rate, etc. The EAC noted that the issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.
9. The EAC, in its 14<sup>th</sup> meeting held during 26<sup>th</sup> to 27<sup>th</sup> October, 2016, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

10. Based on the proposal and information submitted by the Project Proponent, and based on the recommendation by the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the 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) ESP shall be provided to the bagasse 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 for distillery from Doodh Ganga River shall not exceed 300 m<sup>3</sup>/day. No ground water shall be drawn for industrial purposes.
- 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 through Bio digester followed by Multiple Effect Evaporator (MEE). The Concentrated biomethanated spentwash will be sent to biocomposting by utilizing the press mud from sugar plant. 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 30 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) Continuous online (24 x7) 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 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 alongwith the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasse ash and coal ash shall be stored separately.



- 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 over 7 acres of the total project area 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.
- xv) All the commitments made during the Public Hearing/Public Consultation meeting held on 20.7.2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xvi) 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 Bangalore. Implementation of such program shall be ensured accordingly in a time bound manner. Besides, one rain water harvesting pond shall be created in nearby villages.

**B. General Conditions:**

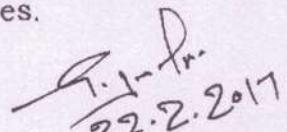
- (i). The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board, State Government and any other statutory authority.
- (ii). No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment, 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 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, 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 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&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

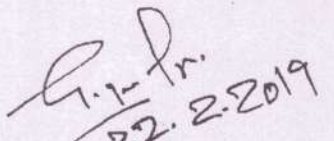
letter are available with the SPCB/Committee and may also be seen at Website of the Ministry at <http://moef.nic.in>. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall 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.
11. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
13. 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, Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
22.2.2017  
(Yogendra Pal Singh)  
Scientist 'D'

**Copy to:-**

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storied Building, Dr. Ambedkar Veedhi, Bangalore - 560 001.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change Regional Office (SZ), Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wings, 17<sup>th</sup> Main Road, Koramangala II Block, Bangalore - 560034.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Member Secretary, Karnataka State Pollution Control Board, "Parisara Bhavan", #49, 4<sup>th</sup> & 5<sup>th</sup> Floor, Church Street, Bangalore-560001.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi- 110 003.
6. Guard File/Monitoring File/Website/Record File.

  
22.2.2019  
(Yogendra Pal Singh)  
Scientist 'D'