

F. No. J-11011/159/2014-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
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Dated: 18th April, 2017

To,

The Managing Director
(Shri Venkatesh S Patil)
M/s Shri Balaji Sugars and Chemicals Pvt. Ltd.
Village - Yeregal, Taluka - Muddebihal,
District - Bijapur, Karnataka

Sub: Setting up of Molasses based Distillery Unit (60 KLPD) along with Cogeneration Power Plant (3 MW) at Village Yeregal, Taluka Muddebihal, District - Bijapur, Karnataka by M/s Shri Balaji Sugars and Chemicals Pvt. Ltd. - Environmental Clearance - reg.

Ref: Online Proposal No. IA/KA/IND2/32158/2014 dated 28th October, 2015.

Sir,

This has reference to your online proposal no. IA/KA/IND2/32158/2014 dated 28th October, 2015 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 Distillery Unit (60 KLPD) along with Cogeneration Power Plant (3 MW) at Village Yeregal, Taluka Muddebihal, District Bijapur, Karnataka by M/s Shri Balaji Sugars and Chemicals Pvt. Ltd. As informed and as per the documents submitted by the Project proponent (PP), total land required for the proposed project is 40,500 m². Out of which 13,500 m² area will be used for green belt development. The cost of the project is ₹ 60 Crores. It is reported that no eco-sensitive area/national park/wildlife sanctuary/biosphere reserves is located within 10 Km radius of the project area. Krishna river is flowing at a distance of 3.5 km. Distillery will be operated for 330 days in a year.

3. 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).

4. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 20th meeting held during 23rd - 24th June, 2014 and awarded

Terms of Reference (TOR) for preparation of EIA-EMP report. The TOR was issued by Ministry vide letter dated 22nd September, 2014.

5. The EAC (Industry-2) in its 6th meeting held on 1st April 2016 and 17th meeting held during 26th-29th December, 2016 has considered the proposal for environmental clearance (EC). The Project Proponent and their consultant M/s Ace Engineers and Consultants, Patiala, 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 20th meeting held during 23rd -24th June, 2014.
6. The PP informed the EAC that the ambient air quality (AAQ) monitoring was carried out at 6 locations during 1st May, 2014 to 31st July, 2014 and the baseline data indicates the ranges of concentrations as: PM₁₀ (32 µg/m³ and 57 µg/m³), PM_{2.5} (20.0 µg/m³ to 35 µg/m³), SO₂ (5 µg/m³ to 7.9 µg/m³) and NO_x (7.9 µg/m³ to 16.5 µg/m³) respectively. The EAC in its 6th meeting has noted that ambient air quality was carried out in the wrong season. The EAC suggested PP to submit fresh AAQ data. EAC in its 17th meeting has noted that the PP has submitted fresh ambient air quality data for one season alongwith fresh wind rose data.
7. Public Hearing for the proposed project has been conducted by the Karnataka State Pollution Control Board 25.03.2015.
8. ESP will be provided to coal/concentrated spent wash fired boiler. Water requirement from Krishna River will be 600 m³/day. Spent wash will be concentrated in the MEE followed by incineration in coal fired boiler.
9. The EAC, in its 17th meeting held during 26th-29th December, 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 considering the recommendation of 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 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. Specific Conditions:

- i. Total fresh water requirement shall not exceed the limit as proposed.
- ii. Spent wash generation from molasses based distillery shall not exceed 8 Kl/Kl of alcohol. The spent wash from molasses based distillery shall be evaporated in MEE and concentrated spent wash will be incinerated in the incineration boiler to achieve 'Zero' discharge. Evaporator Condensate shall be treated in polishing pond and recycled/reused in process. Sewage shall be treated in the STP. No effluent shall be discharged outside the premises and 'Zero' discharge shall be maintained.

- iii. 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.
- iv. 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.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- vi. 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 Bangalore and SPCB.
- vii. Bagasse/coal storage shall be done in such a way that it does not get air borne or fly around due to wind.
- viii. 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.
- ix. 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.
- x. 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.
- xi. 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.
- xii. 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.
- xiii. As proposed, green belt over 33% 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.

- xiv. All the commitments made during the Public Hearing/Public Consultation meeting shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xv. At least 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.
- xvi. Zero Liquid Discharge (ZLD) shall be ensured.
- xvii. A well equipped environment management cell shall be formed with a environment manager having post graduate qualification in Environmental Sciences/Environmental Engineering.
- xviii. 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.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the Karnataka State Pollution Control Board (KSPCB), 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 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, 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, 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

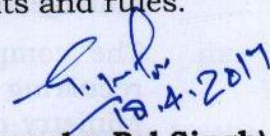
a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.

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.

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

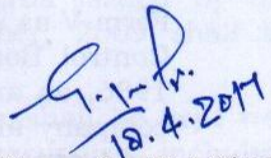
12. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

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 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.


18.4.2017
(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, 4th Floor, E&F Wings, 17th 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 Chairman, Karnataka State Pollution Control Board, "Parisara Bhawan", #49, 4th & 5th 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.


18.4.2017
(Yogendra Pal Singh)
Scientist 'D'