

F. No. J-11011/189/2016-IA.II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
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New Delhi - 110 003

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Dated: 11th May, 2017

To,

The Chief Executive Officer
(Shri D M Raskar)
M/s Shreenath Mhaskoba Sakhar Karkhana Ltd
Meghdoot Building, 2nd Floor
Behind Bharat Petrol Pump, Opp Akashwani Centre
Hadapsar, Pune, Maharashtra

Sub: Setting up of 3 KLPD (10 %) Cellulosic non food biomass (Agri waste) based modular Demo Pilot Plant for R&D purpose within the premises of existing 30 KLPD Molasses Distillery at Patethan, Post- Rahu, Tahsil Daund, District Pune, Maharashtra by M/s Shreenath Mhaskoba Sakhar Karkhana Ltd - Environmental Clearance - reg.

Ref: Online Proposal No. IA/MH/IND2/59639/2016 dated 09th November, 2016.

Sir,

This has reference to your online proposal no. IA/MH/IND2/59639/2016 dated 09th November, 2016, along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP 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 3 KLPD (10 %) Cellulosic non food biomass (Agri waste) based modular Demo Pilot Plant for R&D purpose within the premises of existing 30 KLPD Molasses Distillery at Patethan, Post - Rahu, Tahsil Daund, District Pune, Maharashtra by M/s Shreenath Mhaskoba Sakhar Karkhana Ltd. (SMSKL). As informed and as per the documents submitted by the Project Proponent (PP), the existing plot area is 80937 m², additional 8094 m² land will be required for the proposed plant. Out of which green belt will be developed in 28,360 m² (35%) area. The existing land from SMSKL premises will be used for setting up of the new plant. Total cost of the project is ₹ 30.60 crore. Total Capital cost and recurring cost/annum for Environment pollution control measures are ₹ 6.36 crores and 0.912 crores respectively. It is reported that there is no national park, wildlife sanctuary, Reserved forest/protected forest lies within 10 Km radius of the project site. Bhima River and Mula Mutha River are flowing at a distance of 3 Km and 6.5 Km respectively from the project site.



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) in its 12th meeting held during 23rd - 24th August, 2016 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 25th October, 2016.
5. The project proposal was considered by the Expert Appraisal Committee (Industry -2) in its 17th meeting held during 26th - 29th December, 2016 for environmental clearance (EC). The Project Proponent and the accredited consultant M/s ABC Techno Labs India Pvt. Ltd., Chennai 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 12th meeting held during 23rd - 24th August, 2016.
6. Public hearing was exempted under para 7 (ii) of EIA, Notification, 2006.
7. The PP has obtained EC for the existing unit vide No. J-11011/19/2012-IA.II (I) dated 15th December, 2014. The EAC noted that the proposed activity is for R&D purposes to produce Ethanol for meeting the long term requirement of the country for blending in the fuel, and as the PP informed that they will strictly follow the condition of existing EC, the EAC found Compliance report satisfactory.
8. The PP has informed the EAC that the ambient air quality monitoring was carried out at 8 locations during 1st October, 2016 - 31st October 2016 and the baseline data indicates the ranges of concentrations as: PM₁₀ (45.1 µg/m³ - 85.4 µg/m³), PM_{2.5} (30.3 µg/m³- 61.8 µg/m³), SO₂ (18.0 µg /m³-35 µg /m³), NO_x (28 µg/m³-38.3 µg/m³) and CO(1.2 mg/m³- 3.9 mg/m³) respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
9. Fresh water requirement for the proposed project will be 56 m³/day and will be met from the existing sanctioned (300 m³/day) water source from the Bhima River. Approx 8 m³/day effluent will be generated from new plant. Spent wash generated from proposed unit will be treated in new ETP in which it will be passed through Solid- Liquid separation followed by biomethanation unit and RO. RO reject will be sent to existing compost yard, whereas sludge produce from existing distillery will be used as fertilizer after composting. No effluent is discharged outside plant premises. Plant is based on Zero liquid discharge scheme.
10. Power requirement for the proposed project will be 450 KWH, which will be sourced from existing 10 MW cogeneration power plant of SMSKL. 1 DG set of capacity 380 KVA will be used as stand by and attached to stack of height 3.5 m. Steam requirement will be 24TPD which will be met from existing boiler of 70 TPH capacity. No additional boiler will be required for the proposed expansion.
11. The EAC, in its 17th meeting held on 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.



12. 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. No additional boiler shall be used for the proposed demonstration plant.
- ii. Total fresh water requirement shall not exceed 300m³/day from Bhima River and prior permission shall be obtained from the concerned agency.
- iii. Spent wash generated from proposed unit will be treated in new ETP in which it will be passed through Solid - Liquid separation followed by biomethanation unit and RO. RO reject will be sent to existing compost yard, whereas sludge produce from existing distillery will be used as fertilizer after composting.
- 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. Spent wash shall be stored in SS tank. The storage of spent wash shall not exceed 5 days capacity.
- vi. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- vii. 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.
- viii. 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.
- ix. Automatic/online monitoring system (24 x 7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.
- x. The unit shall adhere to Zero Liquid Discharge (ZLD).

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra 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 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 and risk mitigation measures relating to the project shall be implemented.
 - ix. The company shall undertake all relevant measures for improving the socioeconomic 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 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution

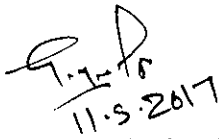
Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.

- 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.

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

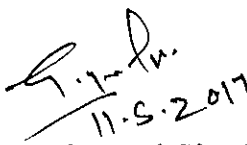
14. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

15. 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.


11.5.2017
(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032.
2. The Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur - 440 001.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai - 400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh, New Delhi - 110 003.
6. Guard File/Monitoring File/Website/Record File.


11.5.2017
(Yogendra Pal Singh)
Scientist 'D'

