

F. No. J-11011/19/2012-IA II (I)
Government of India
 Ministry of Environment, Forests and Climate Change
 (I.A. Division)

Indira Paryavaran Bhawar
 Aliganj, Jorbagh Road
 New Delhi -11000

E-mail : lk.bokolia@nic.ir
 Dated 15th December, 2014

To,

✓ Shri D. M. Raskar (Chief Executive Officer)
 M/s Shreenath Mhaskoba Sakhar Karkhana Ltd.
 MPB Chambers, 2nd Floor,
 above Hari Om Super Market
 Pune-Solapur Road Hadasar
 Pune-411028 Maharashtra

Email: smskl@rediffmail.com ; shreenathmskltd@indiatimes.com ;
 Fax: 2682 0665

Subject : Molasses based Distillery Unit (30 KLPD) of M/s Shreenath Mhaskoba Sakhar Karkhana Ltd. located at Village Shreenatnagar Patethan, Tehsil Dauand, District Pune, Maharashtra.- Environmental Clearance reg.

Ref. No.: Your Letter no. SMSKL/Prod/13323/2013-14 dated 4th November, 2013.

Sir,

This has reference to your letter dated 4th November, 2013 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith Public Hearing Report regarding above mentioned project and subsequent submission of additional information vide letters dated 6th July, 2014 (received in the Ministry on 14th July, 2014) 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 Molasses based Distillery Unit (30 KLPD) of M/s Shreenath Mhaskoba Sakhar Karkhana Ltd. located at Village Shreenatnagar Patethan, Tehsil Dauand, District Pune, Maharashtra. The existing sugar unit (2500 TCD) is located. Total plot area is 20 acres. Cost of project is Rs. 32.71 Crore. Bima River and Mula-Muta River are flowing at a distance of 2.3 km and 7 km respectively. No ecological sensitive area is located within 10 km distance. Distillery will be operated for 270 days. Molasses will be sourced from own sugar unit (32400 MTPA) and nearby sugar plant (7200 MTPA).

3.0 Bagfilter alongwith stack of adequate height will be provided to coal/biomass fired boiler to control particulate emission within 50 mg/Nm³. Total fresh water requirement from River Bima will be 300 m³/day. Spent wash generation from molasses based distillery will be 8 KI/KI of alcohol produced (i.e. 240 m³/day). Spent wash from molasses based distillery will be treated in biogester. The treated spent wash will be concentrated in multi-effect evaporator (MEE). Concentrated spent wash will be biocomposted with press mud to achieve 'Zero' discharge. Condensate water will be recycled/reused for the cooling tower make up water. Effluent from utilities will be treated in the effluent treatment plant (ETP). No effluent will be discharged outside the premises. Storage capacity for spent wash lagoon will not be more than 5 days. Fly ash from bagasse will be used as manure. Yeast sludge will be utilized for bio-composting. Waste/used oil will be sold to authorized recyclers / re-processors.

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4.0 Public Hearing / Public Consultation meeting was conducted by MPCB on 2nd July, 2013.

5.0 All molasses based distilleries are listed at S.N. 5 (g) (i) under category 'A' and appraised at Central level as per EIA, Notification, 2006 issued on 14.09.2006.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its meetings held during 11th - 12th May, 2012, 3rd - 5th December, 2012, 29th - 30th January, 2014 and 30th July, 2014 - 1st August, 2014 respectively. Project Proponent and the EIA Consultant namely Goldfinch Engineering Systems Pvt. Ltd., have presented EIA / EMP report as per the TOR. EAC has found the EIA / EMP Report and additional information to be satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, the Ministry of Environment, Forests and Climate Change 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) Distillery unit shall be based on molasses (30 KLPD) only and no grain based distillery unit shall be operated.
- ii) As proposed, bag filter alongwith stack of adequate height shall be provided to coal/biomass fired boiler to control particulate emission within 50 mg/Nm³. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Efficiency of pollution control device shall be monitored regularly. Stack monitoring report shall be submitted to the Ministry's Regional Office at Bhopal.
- iii) In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records shall be maintained. The emissions shall conform to the limits prescribed by Maharashtra Pollution Control Board (MPCB).
- iv) Company shall follow good management practices viz. collection of waste yeast sludge from fermentation section in a closed system and proper disposal, reduced volume of effluent by adopting strategic approaches, closed drains carrying spent wash to the treatment units; minimization of fugitive emissions from anaerobic treatment; proper collection & handling of excess sludge generated from the anaerobic & aerobic treatment units; minimum retention of treated & untreated spent wash in the lagoons; effective composting of the spent wash by controlled effluent spraying through mechanical system to avoid spillages & over application, blending of sludge in correct proportion with press mud; and properly finished compost and green belt development with suitable plantation in and around the treatment units to mitigate odour from the distillery unit.

- v) Pucca approach road to project site shall be constructed prior to commercial construction activity of the main distillery so as to avoid fugitive emissions.
- vi) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG set to mitigate the noise pollution.
- vii) The company shall upload the status of compliance of the stipulated Environmental Clearance conditions, including results of monitored data on its website and update the same periodically. It shall simultaneously be sent to the respective Regional office of MOEF, the respective Zonal office of CPCB and the MPCB. Levels of PM₁₀, PM_{2.5}, SO₂, NO_x and HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and important public places.
- viii) Total fresh water requirement from River Bima shall not exceed 300 m³/day and permission shall be obtained from the Competent Authority.
- ix) Spent wash generation from molasses based distillery shall not exceed 8 Kl/Kl alcohol. The spent wash from molasses based distillery shall be treated through biometnation process. Treated spent wash will be evaporated in MEE and concentrated spent wash will be biocomposted with pressmud to achieve Zero discharge. Evaporator Condensate shall be treated and recycled/reused in process.
- x) No effluent from distillery shall be discharged outside the plant premises and Zero discharge concept shall be followed.
- xi) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- xii) Spent wash for molasses should be stored in impervious lagoon with HDPE lining as per CPCB guidelines and should be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon should not be more than 5 days.
- xiii) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area should 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 should be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bhopal and MPCB.
- xiv) Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.
- xv) Fly 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 along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasse ash and coal ash shall be stored separately.
- xvi) 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.

- xvii) Risk Assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional Office at Bhopal within six months.
- xviii) 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.
- xix) 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.
- xx) As proposed, green belt over 33 % of the total project area should 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.
- xxi) All the commitment made regarding issues raised during the public hearing/consultation meeting held on 2nd July, 2013 shall be satisfactorily implemented.
- xxii) Pollution Control devices of the unit should be interlocked with process/production to ensure effective functioning of the devices as per CPCB guidelines.
- xxiii) At least 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 at Bangalore. Implementation of such program shall be ensured accordingly in a time bound manner.
- xxiv) The Company shall submit within three months their policy towards Corporate Environment Responsibility which shall inter-alia address (i) Standard operating process/ procedure to bring into focus any infringement/deviation/violation of environmental or forest norms/conditions, (ii) Hierarchical system or Administrative order of the Company to deal with environmental issues and ensuring compliance to the environmental clearance conditions and (iii) System of reporting of non compliance/violation environmental norms to the Board of Directors of the company and/or stakeholders or shareholders.
- xxv) Provision shall be made for the housing for the construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board (MPCB), 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, Forests and Climate Change. In case o

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 MPCB 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 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).
- v. 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.
- vi. During transfer of materials, spillages shall be avoided and gulland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- vii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- viii. 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.
- ix. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report 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.
- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area. *Corporate Social Responsibility*
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. The company shall earmark sufficient funds for 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.
- xiv. 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 who suggestions/ representations, if any, were received while processing the proposal.

- xv. 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 the Maharashtra Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xvi. The environmental statement for each financial year ending 31st March in Form-V as mandated shall be submitted to the 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 Bhopal Regional Offices of MoEF by e-mail.
- xvii. 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://envfor.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.
- xviii. 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.

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

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

10.0 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 Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules by M/s. Shreenath Mhaskoba Sakhar Karkhana Ltd.


(Lalit Bokolia)
Additional Director

Copy to :-

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
2. The Chief Conservator of Forests (Central), Kendriya Paryavaran Bhavan, Link Road No.3, Bhopal-462016.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp.

5. Cine Planet, Sion Circle, Mumbai-400 022.
6. The Joint Secretary, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan Complex, New Delhi.
7. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
8. Guard File/Monitoring File/Record File.

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