

**Government of India
Ministry of Environment and Forests
(I.A. Division)**

**Paryavaran Bhawan
CGO Complex, Lodhi Road
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Dated 29th March, 2011

To,

✓
Shri Ashok Jadhav, General Manager
M/s Saikrupa Sakhar Karkhana Ltd., Hiradgaon
Village Hiradgaon, Tehsil Shrigonda,
District Ahmednagar, Maharashtra

E-mail : saisugar2000@yahoo.co.in; saisugar20002000@hotmail.com;

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Subject: Sugar (7500 TCD), Distillery (Molasses, 60 KLPD) and Co-generation Plant (40 MW) at Village Hiradgaon, Tehsil Shrigonda, District Ahmednagar, Maharashtra by M/s Saikrupa Sakhar Karkhana Ltd. – Environmental Clearance reg.

Ref. : Your letter no. sskl/111/2010-2011/123 dated 5th August , 2010.

Sir,

Kindly refer your letter dated 5th August , 2010 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report alongwith public hearing report and additional information/ clarification submitted vide e-mail dated 20th December, 2010 regarding above mentioned project.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for setting up of Sugar (7500 TCD), Distillery (Molasses, 60 KLPD) and Co-generation Plant (40 MW) at Village Hiradgaon, Tehsil Shrigonda, District Ahmednagar, Maharashtra. The distillery will be operated for 270 days, sugar unit will be operated for 160 days and Co-generation Power Plant will be operated for 330 days. Total plot area is 3,64,217 m² (90 acres). Total project cost is Rs. 357.54 Crores. No national parks/ wild life sanctuary are located within 10 km. Reserve Forest is located at 2 Km. Bhima River (11.5 Km) and Autaywadi lake (2.7 km), Ghodegaon lake(1.7 km) are located.

3.0 Bagfilter alongwith stack of adequate height will be provided to the boiler to control particulate matter emissions within 50 mg/m³. Total fresh water requirement from Ghodegaon talao minor irrigation project will be 2,500 m³/day. Effluent (750 m³/day) from sugar and co-generation unit will be treated in effluent treatment plant (ETP) comprising primary, secondary and tertiary treatment. Spent wash (300 m³/day) will be treated through bio-methanation process and concentrated in multiple-effect evaporation followed by bio-composting. Concentrated from MEE will be incinerated during sugar cane off season. No effluent from distillery and co-generation power plant will be discharged outside the plant premises. Sewage (90 KLD) will be treated in sewage treatment plant (STP). Boiler ash will be given to nearby brick manufacturers. Spent oil will be sold to the authorized recyclers/re-processors.

4.0 Public Hearing / Public Consultation meeting was conducted on 1st June, 2010. *Mue*

5.0 All molasses based distilleries are listed at S.N. 5(g) (i) respectively under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 1st, 16th and 18th meeting held during 24th & 25th July, 2009, 18th-19th November, 2010 and 20th-21st January, 2011 respectively. The Committee recommended the proposal for environmental clearance.

7.0 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) Distillery unit shall be based on molasses based only and no grain based distillery unit shall be operated.
- ii) Permission and recommendations of the State Forest Department regarding impact of the proposed project on reserve forest located within 10 km radius of the project site shall be obtained and recommendations shall be implemented satisfactorily.
- iii) Efforts shall be made to reduce PM₁₀ levels in the ambient air and a time bound action plan shall be submitted. Bag filter alongwith stack of adequate height shall be provided to boiler to control particulate emission within 50 mg/Nm³. Stack monitoring shall be carried out regularly and monitoring report shall be submitted to the Ministry's Regional Office at Bhopal. 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.
- 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) 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 imposed by Maharashtra Pollution Control Board (MPCB).
- vi) Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions. ✓

- vii) 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 sets to mitigate the noise pollution.
- viii) The company shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the MPCB. The levels of PM_{10} , $PM_{2.5}$, SO_2 , 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 at important public places.
- ix) Total fresh water requirement from Ghodegaon talao minor irrigation shall not exceed 2,500 m^3 /day. and prior permission shall be obtained from the concerned authority/agency and a copy shall be sent to the Regional office of MOEF. No ground water shall be used.
- x) As proposed, effluent (750 m^3 /day) from sugar and co-generation unit shall be treated in ETP comprising primary, secondary and tertiary treatment unit.
- xi) Spent wash generation shall not exceed 5 Kl/Kl of alcohol. Spent wash shall be treated through bio-methanation process and concentrated in multi-effect evaporator (MEE) followed by bio-composting. As proposed Incineration shall be followed instead of bio-composting during off season. Spentlees and Utility's wastewater shall be treated in ETP and water quality of treated effluent shall meet the norms prescribed by CPCB/SPCB and treated water shall be recycled/ reused.
- xii) No effluent from distillery and co-generation power plant shall be discharged outside the premises and Zero discharge shall be adopted.
- xiii) Spent wash shall be stored in impervious lagoon with HDPE lining as per CPCB guidelines and shall be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon shall be for 5 days.
- xiv) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area including spent wash storage lagoon and bio-composting 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, suspended solids and total dissolved solids shall be monitored.
- xv) No storage of wet cake shall be done at site. An additional dryer shall be installed so that at any time wet cake is not sold then wet cake shall be converted into dry cake by operating additional dryer.
- xvi) Memorandum of Understanding (MoU) with coal supplier shall be submitted to the Ministry's respective Regional Office within 3 months of the issue of environmental clearance.

- xvii) Rice husk storage shall be done in such a way that it does not get air borne or fly around due to wind. For this, it may be kept in wet form.
- xviii) 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.
- xix) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amendment in 2003. Fly ash shall be provided to cement and brick manufacturers for further utilization.
- xx) Fire fighting system shall be as per the OISD 117 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.
- xxi) 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.
- xxii) 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.
- xxiii) 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.
- xxiv) As proposed, green belt shall be developed in 30 acres out of total land 90 acres and plantation shall be done as per the CPCB guidelines in consultation with DFO.
- xxv) All the issues raised during the public hearing/consultation meeting held on 1st June, 2010 shall be satisfactorily implemented.
- xxvi) 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, mobile sewage treatment plant, 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 shall strictly adhere to the stipulations made by the Maharashtra Pollution Control Board.

- 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 Maharashtra Pollution Control Board (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. The Company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and its amendment time to time and prior permission from SPCB shall be obtained for disposal of solid / hazardous waste including boiler ash.
- vii. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- viii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- ix. 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.
- x. 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.
- xi. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.

- xii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xiii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiv. As proposed, the company shall earmark Rs. 370.00 Lakhs towards capital cost and Rs. 35.00 Lakhs 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.
- xv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations, if any, were received while processing the proposal.
- xvi. 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.
- xvii. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Maharashtra 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.
- xviii. 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.
- xix. 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 Wastes (Management and Handling) Rules, 2003/ 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

P. B. Rastogi 25/3/11
(Dr. P. B. Rastogi)
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), Regional Office (Northern Zone), Bay No.24-25, Sector 31-A, Dakshim Marg, Chandigarh-160030.
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. Cine Planet, Sion Circle, Mumbai-400 022.
5. The Adviser, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.

P. B. Rastogi 25/3/11
(Dr. P. B. Rastogi)
Director