

**F. No. J-11011/937/2008- IA II (I)**  
**Government of India**  
**Ministry of Environment and Forests**  
**(I.A. Division)**

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**Dated: 28<sup>th</sup> October , 2009**

To,  
The Managing Director  
**M/s Vikas Sahakari Sakhar Karkhana Limited**  
Vaishalinaga, Nivli District Latur  
Maharashtra.

**Subject: Expansion of molasses based distillery unit from 30 to 60 KLPD and 18 MW Cogeneration plant at Vaishalinagar, Nivali, Tal. & Dist. Latur in Maharashtra by M/s Vikas Sahakari Sakhar Karkhana Limited. – reg. environmental clearance.**

Sir,

This has reference to your letter No. VSSK/Distillery/1535/2009-10 dated 25<sup>th</sup> July, 2009 along with a copy of EIA/EMP report seeking environmental clearance on the above mentioned subject under the EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that M/s Vikas Sahakari Sakhar Karkhana Limited have proposed for expansion of molasses based distillery unit from 30 KLPD to 60 KLPD and 18 MW Cogeneration power plant at Vaishalinagar, Nivali, Tal. & Dist. Latur in Maharashtra. No Wild life sanctuary/national park/biosphere reserve etc. is located within 10 km radius of the project. No Forest land and R&R is involved. The distillery is attached to sugar unit of 2500 TCD Capacity and it is proposed to increase the capacity to 3500 TCD. The unit will manufacture R.S. (57 KLPD) / ENA (56.5 KLPD), Impure spirit as a byproduct (3.5 KLPD) and Fusal oil (0.12 KLPD) as by product based on continuous fermentation technology. The Distillery will run for 270 days and cogeneration power plant will run for 300 day. Proposed expansion will be carried within the existing unit having land area of 23.9 acres, of which 5 acres will be utilized for distillery, bio-methanation, evaporation plant, spent wash storage lagoon, 8 acres for bio-composting, 5 acres for cogeneration power plant and 5.9 acres for greenbelt development. Molasses requirement will be 222.2 MT/day. Power requirement of 1.200 MW \ hr will be met from the captive power plant. Fuel for the boiler will be bagasse (Season: 822.5MT/Day; off season: 309.5 MT/Day) Project cost for expansion is Rs. 2874.62 lacs and for Cogeneration power plant is Rs. 6167.15 lacs. Cost for environmental protection measures will be Rs. 1128.00 lacs.

3.0 It is noted that the water requirement of 1000 m<sup>3</sup> /day for distillery unit and 1355 m<sup>3</sup>/day for cogeneration plant will be sourced from Nivale lake and permission from the State Irrigation Department, Maharashtra has been obtained. The spent wash generation after expansion will increase to 600m<sup>3</sup>/day. Spent wash treatment will be by Bio-methanation followed by concentration in the evaporation plant. The concentrated spent wash will be composted with press mud. The CO<sub>2</sub> produced during fermentation will be scrubbed with water. Cyclones and stack height of 65m is proposed for the boiler to control the particulate emissions.

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4.0 All molasses and non-molasses based distilleries are listed at Sl. No. 5(g) of schedule of EIA notification, 2006. The molasses based distillery unit irrespective of capacity fall under category 'A' and appraised at the Centre.

5.0 The proposal was considered by the Expert Appraisal Committee - 2 (Industry) in its 3<sup>rd</sup> meeting held on 15-16<sup>th</sup> September, 2009. The Committee recommended the project for grant of environmental clearance. The public hearing was exempted as per para 7(ii) of EIA Notification, 2006.

7. Based on the information submitted by you, the Ministry of Environment and Forests hereby accords environmental clearance to above project under the provisions of EIA Notification dated 14<sup>th</sup> September 2006 subject to strict compliance of the following Specific and General conditions:

**A. SPECIFIC CONDITIONS:**

i. The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.

ii. The particulate emissions from the 55 TPH and 40 TPH capacity boilers shall be controlled by installation of cyclones and emissions shall be dispersed through stack height as per the CPCB guidelines. The particulate emissions shall conform to the prescribed standards. The emissions from the DG sets shall be dispersed through stack of height as per CPCB/State Pollution Control Board standards. Acoustic enclosures shall be provided to the DG sets to mitigate noise levels.

iii. 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 State Pollution Control Board. The levels of SPM, RSPM, SO<sub>2</sub>, NO<sub>x</sub> (ambient levels), emissions from the stacks and pH, TDS, BOD, COD, Chloride, suspended solids and sulphates in the treated effluent shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.

i. The spent wash after bio-methanation shall be concentrated in the multiple effect evaporator and concentrated spent wash shall be composted with press mud to achieve zero discharge. The press mud requirement, area for compost yard and storage of finished products shall be as per the CPCB guidelines. The effluent shall not be discharged outside the plant premises. The zero discharge condition shall be strictly maintained.

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ii. The distillery shall not operate during the rainy season.

iii. The spent wash shall be stored in impervious pucca lagoon. The spent wash lagoon shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation, storage capacity of lagoon shall not exceed 30 days capacity.

iv. 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.

v. Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO.

vi. Permission shall be obtained to draw the water from the State Irrigation Department.

vii. Company shall adopt rainwater harvesting measures to recharge the ground water.

viii. 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

medical records of each employee shall be maintained separately.

ix. 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:**

No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.

Ambient Air Quality Monitoring Stations shall be set up in the down wind direction as well as where maximum ground level concentration of SPM, SO<sub>2</sub>, NO<sub>x</sub>, are anticipated in consultation with the State Pollution Control Board.

Adequate number of influent and effluent quality monitoring stations shall be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.

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The industry shall ensure that the treated effluent and stack emissions from the unit are within the norms stipulated under the EPA rules or SPCB whichever is more stringent. In case of process disturbances/failure of pollution control equipment adopted by the unit, the respective unit shall be shut down and shall not be restarted until the control measures are rectified to achieve the desired efficiency.

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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA ( day time) and 70 dBA ( night time).

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 medical records of each employee shall be maintained separately.

A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.

The project authorities shall provide requisite funds for both recurring and non-recurring expenditure to implement the conditions stipulated by the non-recurring expenditure 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 provided shall not be diverted for any other purpose.

A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.

The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bhopal /State Pollution Control Board/Central Pollution Control Board.

The project proponent shall also submit six monthly reports on the status of compliance of the stipulated E C 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 State Pollution Control Board.

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 by e-mail.

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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 State Pollution Control Board/ Committee and may also be seen at Website of the Ministry of Environment and Forests 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 Regional office.

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 land development work.

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

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

10. Any appeal against this environmental clearance shall lie with the National Environment Appellate Authority, if preferred within a period of 30 days as prescribed under Section 11 of the National Environment Appellate Authority Act, 1997.

11. 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, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

**(Dr. P. L. Ahujarai)**  
**Director**

**Copy to:**

1. The Secretary, Department of environment and forests, Govt. of Maharashtra.
2. The Chief Conservator of Forests (Central), Ministry of Environment & Forests, Regional Office, E - 3 / 240 Arera Colony Bhopal - 462 016.
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 Points, 3rd & 4th Floor, Opp. Cine Planet, Sion Circle, Sion (E) Mumbai – 400 022.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.

**(Dr. P. L. Ahujarai)**  
**Director**