

F. No. J-11011/197/2008- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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New Delhi – 110 003  
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Telefax: 011 – 2436 3973  
Dated: March 17, 2009

To,  
The Managing Director  
M/s Nira-Bhima Sahakari Sakhar Karkhana Limited  
Shahajinagar, Redni Tehsil Indapur  
Dist: Pune -413 114  
Maharashtra

Email: [nira-bhima@yahoo.com](mailto:nira-bhima@yahoo.com)

Sub: 30 KLPD Molasses based distillery unit at Shahajinagar in District Pune Maharashtra by M/s NIRA-BHIMA Sahakari Sakhar Karkhana Limited- reg environmental clearance

Sir,

This has reference to your letter No. NIRA-BHIMA/adm./1534/08-09 dated 20<sup>th</sup> December, 2008 along with a copy of Final EIA report and Public Hearing Report on the above subject seeking environmental clearance under the EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that M/s Nira-Bhima Sahakari Sakhar Karkhana Ltd have proposed for molasses based 30 KLPD distillery in District Pune in Maharashtra. The unit proposes to manufacture 30 KLPD of RS or 28.2 KLPD of ENA or 27 KLPD of Absolute alcohol. Fusel oil will be produced as by-product. The distillery is attached to sugar unit of 2500 TCD capacity. The company will adopt continuous fermentation technology. The total land area required for the distillery unit will be 8 acres. In addition 16 acres of land for composting, spent wash storage lagoon and bio-methanation plant is available with the company. No National park/ Eco-sensitive /Biosphere reserves etc are located within 10 km radius of the unit. Power requirement will be 7320 KW/hr and will be met from the turbine from the sugar unit. Power requirement of 200 KWH/day during the idle days will be met from the State Electricity Board. Fuel for boiler will be bagasse and biogas. The distillery will operate for 270 days in a year. Total cost of the project is Rs. 2759.96 lacs. The capital cost earmarked for environment protection measures is Rs. 642.54 lacs.

3. The water requirement of 600 m<sup>3</sup>/d will be met from the river Bhima. Spent wash generation will be 280 m<sup>3</sup>/day and will be treated by bio-methanation followed by bio-composting with press mud. Sources of air pollution will be boiler and D.G set. ESP or wet scrubber with stack height of 60m will be installed to control the particulate emissions from the boiler. Adequate stack height will be provided for the DG set for dispersion of gaseous emissions. CO<sub>2</sub> produced during fermentation will be scrubbed with water. The solid waste generation from the unit will be fermented sludge, bottom ash and fly ash, which will be used in bio-composting.

4. The project activity is listed at 5 (g) and is of 'A' category. The Expert Appraisal Committee (Industry) considered the project in its 91<sup>st</sup> meeting held on 9-11<sup>th</sup> February, 2009 and recommended the proposal for grant of environmental clearance. Public hearing for the project was held on 12.11.2008.

*Shahajinagar  
20/3/09*

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5. Based on the information submitted by project authorities, 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 company shall adopt continuous fermentation technology and spent wash generation shall not exceed 280 m<sup>3</sup>/d. The spent wash after bio methanation in the bio digester shall be composted with press mud to achieve zero discharge.
- ii. Land and other requirements for treatment of spent wash with press mud shall be as per the CPCB guidelines. The company shall earmark an area of 16 acre for bio composting, spent wash storage lagoon and bio-methanation plant etc. The compost yard shall be made impervious as per the CPCB guidelines.
- iii. The spent wash shall be stored in impervious pucca lagoons. The spent wash lagoons shall have proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. As per the CPCB recommendation, storage for the concentrated spent wash shall not exceed 30 days capacity.
- iv. Adequate numbers of ground water quality monitoring stations by providing piezometers around the compost plant and project area 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. The particulate emissions from the bagasse fired boiler shall be controlled by installation of wet scrubber/ESP and emission shall be dispersed through stack of height as per CPCB standards.
- vi. The company shall obtain permission from the State Irrigation Department to draw the water.
- vii. Green belt in 33% of the plant area shall be provided to mitigate the effects of fugitive emissions all around the plant and compost yard as per the CPCB guidelines in consultation with the local DFO.
- viii. Company shall adopt rainwater harvesting measures to recharge the ground water.

**B. GENERAL CONDITIONS:**

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

- iv. 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.
  - 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 should conform to the standards prescribed under EPA Rules, 1989 viz. 75 dBA ( day time) and 70 dBA ( night time).
  - vi. The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP report.
  - 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 medical records of each employee shall be maintained separately.
  - viii. A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
  - ix. 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.
  - x. 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. A six monthly compliance status report along with the monitored data shall be submitted to the monitoring agencies.
  - xi. 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.
  - xii. 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.
6. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
7. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.
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8. 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.

9. 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 and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 alongwith their amendments and rules.

*P. Ahujara*

(Dr. P. L. Ahujara)  
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, Shri Chatrapati Shivaji Maharaj Municipal Market Building, 4<sup>th</sup> Floor, Mata Ramabai Ambedaker Road, Mumbai- 400 001.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.

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(Dr. P. L. Ahujara)  
Director

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