

भारत सरकार
पर्यावरण एवं वन मंत्रालय
GOVERNMENT OF INDIA
MINISTRY OF ENVIRONMENT & FORESTS

File No. J-11011/412/2006-IA II (I)

BY SPEED POST

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Date: 6th July 2007

To,

Shri Vasu Rao A.N.
Vice President
Hemarus Technologies Limited
Channatti, Rajgoli Khurd
Chandgad, Kohlapur
Maharashtra

Subject: 50 KLD Molasses Based Distillery Unit along with 25 MW Cogeneration Power Plant at Chanatti, Rajgoli Khurd, Chandgad Kolhapur in Maharashtra by M/s Hemarus Technologies Ltd.- Environmental Clearance Regarding.

Sir,

Kindly refer to your application No. HTL/ENVCLR/Ministry of Environment and Forest/2006/11/110 dated 10th November 2006 regarding the subject mentioned above

2. The Ministry of Environment and Forests has examined the proposal. It is noted that the proposal is to set up a new 50 KLD Molasses Based Distillery along with 25 MW Cogeneration Power Plant Unit. The cost of the project is Rs. 86.63 Crores, out of which Rs.12.315 Crores will be earmarked for environmental protection measures. The Distillery will operate only for 240 days per year. The distillery and power plant will be located in the sugar complex for which total land area is 98.00 ha out of which 25.0 ha will be reserved for distillery and 33 ha has been earmarked for green belt development. No ecologically sensitive area exists in 7 km periphery of the project site. The project does not involve any R & R. Distillery will have Semi Continuous Fermentation Process. The project will also have a Bagasse fired Boilers where 900 TPD of Bagasse shall be used as fuel. Power requirement of 1000 KWH would be met from the CPP of Sugar Unit. Water requirement of 2260 KLD would be met from the Tambraparni River. No ground water shall be used. The spent wash generated will be Bio-composted after Biomethanation. Public Hearing of the project was held on 29.09.2006.

3. The project activity is covered in 5 (g) under the EIA Notification, 2006 and is of 'A' category. The project was considered as per EIA Notification, 1994 in accordance with Para 2.2.1 (i) (a) of Interim Operational Guidelines of the Ministry dated 13th October, 2006 as the EIA/EMP were prepared and Public Hearing was already held.

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जहाँ हैं हरियाली।
वहाँ है सुशहाली।।

पर्यावरण भवन, सी.जी.ओ. कॉम्प्लेक्स, लोदी रोड, नई दिल्ली - 110 003
PARYAVARAN BHAWAN, C.G.O. COMPLEX, LODHI ROAD, NEW DELHI - 110 003

4. 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, 2006 subject to the compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS:

- (i) Necessary Clearance from National Board for Wildlife or State Chief Wildlife Warden may be obtained if there is any wildlife sanctuary or eco-sensitive zone exists within 10 km radius of the project.
- (ii) The Distillery Unit shall operate only for 240 days and shall not operate during rainy season. Permission from the Ministry may be obtained for any increase in the working days. The unit will not operate during rainy season.
- (iii) Revised Guidelines of 2006 issued by CPCB for Distilleries shall be followed. Wherever the limits are different, as stipulated here, the revised limits of CPCB will prevail.
- (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) For control of air emissions from 80 TPH and 110 TPH boilers, Electrostatic Precipitator of efficiency 99.998% would be installed to limit the particulate emissions within permissible limits. Boilers would be provided with stacks of 65 m and 71.0 m height for dispersion of particulates.
- (vi) Noise levels will be limited within 60 - 65 dBA.
- (vii) The company shall adopt Semi Continuous Fermentation Technology. Spent wash generation and domestic effluent generation shall not exceed 445 m³/d and 22.0 respectively. For treatment of spent wash the unit shall adopt Bio-methanation followed by Bio- Composting. It will be ensured that the spent wash generation shall not exceed 9 Kl/Kl of alcohol produced. Press mud requirement will be 35,600 MTA and will be available from their Sugar Unit of 3,500 TCD. Spent lees and other water discharges will be treated in the ETP. Requirement of Press mud will be 26900 MTA and compost produced will be 26000 MTA. 3600 MT of Boiler Ash and Bagacillo will be used for complete composting.

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There will be no discharge of wastewater from the distillery and zero discharge shall be strictly followed. Also separate Effluent treatment plant should be provided for the treatment of 326 m³/d effluent generating from 25 MW Power Plant. The capacity of Lagoon will be for 30 days storage as per CPCB Guidelines.

- (viii) 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 20 Acres for bio-composting, storage of finished products etc. The compost yard shall be made impervious as per the CPCB guidelines.
- (ix) Water requirement shall not exceed 1170 KLD which will be met from the Tambraparni River. A copy of the water withdrawal permission shall be submitted to the Ministry.
- (x) 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. Storage shall be as per the revised guidelines of CPCB.
- (xi) Adequate numbers of ground water quality monitoring stations shall be set up around the compost plant and the project area. These monitoring stations will be provided with piezometers. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The company shall carry out regular analysis of compost, leachate for BOD and pH.
- (i) Fly ash generated from 25 MW power plant shall be utilized as per guidelines issued by Ministry of Environment & Forests.
- (ii) 33 Ha of land area will be developed as green belt all around the plant and compost yard to mitigate the effects of fugitive emissions. The green belt will be as per the CPCB guidelines in consultation with the local DFO.
- (iii) Company shall adopt rainwater-harvesting measures to recharge the ground water.
- (iv) Occupational health surveillance programme shall be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health center shall be strengthened and the medical records of each employee shall be maintained separately.

B. GENERAL CONDITIONS:

- (i) No further expansion or modifications in the plant shall be carried out

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without prior approval of the Ministry of Environment and Forests.

- (ii) Ambient Air Quality Monitoring Stations shall be set up in consultation with the State Pollution Control Board in the down wind direction as well as where maximum ground level concentration of SPM, SO₂, NO_x and RSPM are anticipated. RSPM will also be monitored regularly.
- (iii) 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).
- (iv) The project proponent shall also comply with all the environmental protection measures and safeguards recommended in the EIA /EMP report.
- (v) A separate environmental management cell equipped with full fledged laboratory facilities must be set up to carry out the environmental management and monitoring functions.
- (vi) The project authorities shall provide funds of Rs. 12.315 Crores as capital cost for the environment protection measures. Separate funds for recurring expenditure to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government shall be kept. Also, the implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purpose.
- (vii) The implementation of the project vis-à-vis environmental action plans will be monitored by the concerned Regional Office of the Ministry /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 and shall be posted on the Website of the Proponent.
- (viii) 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.

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- (ix) The Project Authorities shall inform the Ministry and its concerned Regional Office about date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.
5. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
6. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.
7. The above conditions will be enforced along with the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 along with their amendments and rules hereunder.


(Sanchita Jindal)
Additional Director

Copy to:

1. The Secretary, Department of Environment & Energy, Government of Maharashtra, Room No. 403, 4th Floor, Mantralaya, Mumbai-400 032, Maharashtra.
2. Chief Conservator of Forests, Ministry of Environment & Forests, Regional Office (WZ), E-5, Arera Colony, Link Road-3, Bhopal : 462 016, Madhya Pradesh.
3. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
4. The Chairman, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th Floor, Matunga Scheme Road, Road No. 6, Opp. Cine Planet, Circle Sion (E), Mumbai -400022, Maharashtra.
5. JS (CCI-I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi - 110003.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi- 110003.
7. Guard File/Monitoring File/Record File

(Sanchita Jindal)
Additional Director