

F. No. J-11011/1272/2007- IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated: 16th October, 2008

To,
The Managing Director
M/s Gangakhed Sugar & Energy Pvt. Ltd.
97, East High Court Road, Ramdaspath,
Nagpur – 440 010, Maharashtra

Sub : Integrated Project for 60 x 2 KLPD Distillery Plant, 6000 TCD Sugar Cane Crushing Unit, 30 MW Co-generation Power Plant located at village Vijaynagar - Makhani, Tehsil Gangakhed, District Parbhani, Maharashtra by M/s. Gangakhed Sugar & Energy Pvt. Ltd – Environmental clearance reg.

Sir,

This has reference to your letter No. GSEPL : MOEF:2008 : 3366 dated 21st July, 2008 along with EIA /EMP and a copy of public hearing report seeking environmental clearance under the EIA Notification, 2006.

2. The Ministry of Environment and Forests has examined the proposal. It is noted that proposal is for environmental clearance for an Integrated Cane Processing Project comprising of Sugar Mill /Cane Crushing Unit of 6000 TCD and 30 MW Cogeneration Power Plant and 2 X 60 KLPD Distillery unit (Phase-I, 60 KLPD with provision for another unit of 60 KLPD in Phase-II) by M/s. Gangakhed Sugar & Energy Pvt. Ltd., The total land area required for the integrated cane processing project is 68 ha. Green Belt will be developed in 24.54 ha of plant area covering 35% of the total area acquired for the project. No forest land and R&R is involved. Total project cost is Rs. 388.83 Crores of which 20 crores will be for environmental protection measures.

3.0 Power requirement of 942.5 KW/hr will be met from the 1.8 MW TG set and 20 TPH boiler. The sources of air emissions from the unit will be Cogeneration Plant & three D.G. Sets (2 x 1000 KVA & 1 x 250 KVA). ESP will be installed to control the particulate emissions from the 20 TPH baggase / coal fired boiler and 150 TPH cogeneration plant. The emissions will be dispersed through stack of 40 m height from the boiler and 80 m height from the cogeneration plant. Stacks for D. G. Sets (2x1000 KVA & one 250 KVA) as per CPCB standards will be provided with acoustic measures. Total water requirement of 4505 m³/day will be sourced from Masoli Dam located at 2 km from the project site. Raw water requirement for the distillery unit will be 1130 m³/d of which 512 will be met from the treated condensate. Hence, the fresh water requirement will be 618 m³/d for the distillery unit. About 600 m³/day of spent wash would be generated which will be concentrated in the evaporator. The concentrated spent wash will be incinerated in the boiler along with bagasse/coal for power generation. The effluent from the sugar unit after primary, secondary and tertiary treatment will be sent to guard pond to be used for green belt development.

4.0 Solid waste generated will be from Spent wash (180 TPD) will be concentrated & fired in the boiler for steam/power generation. Sludge generated from fermentation & ETP will be used as manure for green belt. Ash generated from bagasse will be given to farmers to be used as manure and ash generated from imported coal (max. 35 TPD) will be given to brick & cement manufacturing units.

5.0 All molasses based distilleries have been listed at Sl. no. 5 (g) in category 'A', as per the EIA notification 2006 and have to be appraised by central Government. The Expert Appraisal Committee considered the project in its 85th Meeting held on 23rd September, 2008. The committee recommended the project for environmental clearance. Public hearing of the project was held on 3rd July, 2008.

6.0 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 14th September 2006 subject to strict compliance of the following Specific and General conditions:

A. SPECIFIC CONDITIONS:

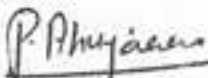
- i. The particulate emissions from the 20 TPH baggase/ coal fired boiler and from the cogeneration power plant shall be controlled by ESP and emissions shall be dispersed through stacks for which height shall be as per the CPCB standards. The emissions from the DG sets shall be dispersed through a stack height of CPCB standards. DG sets shall be provided with acoustic enclosures to mitigate the noise pollution.
- ii. The spent wash generation shall not exceed 600 m³/d. The spent wash after concentration shall be incinerated in the coal / baggase fired boiler. The effluent from the sugar unit after primary, secondary and tertiary treatment and conforming to the prescribed standards shall be used for green belt development and irrigation within the plant premises to achieve zero discharge. The storage capacity for the treated effluent from the sugar unit shall not be more than 15 days.
- 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 5 days capacity.
- iv. Adequate numbers of ground water quality monitoring stations by providing piezometers around the 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 company shall obtain permission from the State Irrigation Department to draw the water..

- vi. 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.
- vii. Company shall adopt rainwater harvesting measures to recharge the ground water.
- viii. 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. 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, SO₂, NO_x, 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.
7. The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 8. The Ministry reserves the right to stipulate additional conditions if found necessary. The company will implement these conditions in a time bound manner.
 9. 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.
 10. 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.


(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, 4th 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.

(Dr. P. L. Ahujarai)
Director