



भारत सरकार
पर्यावरण एवं वन मंत्रालय
Government of India
Ministry of Environment & Forests
(IA Division)

Paryavaran Bhawan
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New Delhi - 110 003

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F. No. J-11011/366/2007-IA-II(I)

Dated : April 15, 2008

To,

✓ The Chief Executive Officer
M/s Vijaynagar Sugar Private Limited
Plot No. 90, Sagar Cooperative Housing Society
Bajnara Hills, Road No. 2, street No. 7, Hyderabad

Sub: Integrated Sugar Complex of 5000 TCD Sugar Plant, 33.5 MW Cogeneration Plant and 120 KLPD Ethyl Alcohol (RS/ENA/Ethanol) at Gangapur & Siranahalli Village Mundargi Taluka, Gadag District Karnataka by M/s Vijaynagar Sugar Pvt. Ltd. - Environmental Clearance regd.

Sir,

This has reference to your letter no. nil - dated 19th Jan, 2008 on the above mentioned project.

2. The Ministry of Environment and Forests has examined your application. It is noted that M/s Vijaynagar Sugar Pvt. Ltd have proposed to set up an Integrated Sugar Complex of 5000 TCD crushing capacity, 33.5 MW Cogeneration plant and Distillery unit to manufacture 130 KLPD of Rectified Spirit or 120 KLPD of Ethyl Alcohol (ENA/Ethanol). The unit is located in Gadag District in Karnataka. No forest land and R&R is involved. The company has already acquired 133 acres of land for proposed Integrated Sugar Complex of which 75 acres of the area will be brought under green belt. It is proposed to adopt continuous fermentation technology. Water requirement is about 3573 m³/day during the crushing season and 4532m³/d during off season which will be met from the river Tungabhadra for which permission from the State Irrigation Department has been obtained on 28.02.2008. About 690 m³/day of effluent will be generated. The effluent from crushing unit will be treated in ETP and treated effluent will be used for green belt within plant premises. Spent wash from distillery will be concentrated in the multiple effect evaporator followed by incineration of concentrated spent wash in the 35 TPH boiler in combination with coal. The steam generated shall be utilized for generation of 3.5 MW power. Blow downs from the utilities will be sent to settling tank and treated effluent will be used for green belt within the plant premises and domestic effluent will be sent to septic tank followed by soak pit. Air emissions from the 120 TPH bagasse / coal fired boiler and 35 TPH concentrated spent wash boiler and coal fired boiler will be controlled by ESP and Bag filters. Solid waste generated in the form of baggase will be used as fuel in boiler. Filter cake will be sold to farmers and spray dried powder will be used in the hot air generation or as fertilizer or fuel. Ash from the boiler will be sold to the brick manufacturers or cement industries. Used batteries and waste oil will be sold to the authorised recyclers. Sludge from ETP will be used as manure after biocomposting. Total project cost of the project is Rs. 300 Crores & Rs.10.5 Crores has been earmarked toward the capital cost of the environmental protection.

3. 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 14th September, 2006 subject to the 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 equipments adopted by the unit, the respective unit shall be shut down and should not be restarted until the control measures are rectified to achieve the desired efficiency.
- ii. The spent wash generated shall be concentrated in multiple effect evaporator. The concentrated spent wash shall be incinerated in the coal fired boiler of 35 TPH capacity to achieve zero discharge.
- 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 shall not exceed 30 days capacity.
- iv. Adequate numbers of ground water quality monitoring stations by providing piezometers around the spent wash storage lagoon and 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. Particulate emissions from the 120 TPH baggase / coal fired boiler and 35 TPH concentrated spent wash and coal fired boiler shall be controlled by installation of ESP. and bag filters respectively. Particulate emission shall be discharged into atmosphere through stack of suitable height as per CPCB norms.
- vi. As reflected in the EIA /EMP, green belt in an area of 75 acres shall be provided to mitigate the effects of fugitive emission all around the plant as per the CPCB guidelines in consultation with the local DFO.
- 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 should be maintained separately.

B. GENERAL CONDITIONS:

- i. The project authorities must strictly adhere to the stipulations made by the Karnataka Pollution Control Board and the State Government.
- ii. No further expansion or modifications in the plant should be carried out without prior approval of the Ministry of Environment and Forests.
- iii. Ambient Air Quality Monitoring Stations should 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.

- iv. 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.
- v. The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) 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 and suggestions made during the public hearing.
- vii. 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 will provide separate funds both recurring and non recurring 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.
- viii. The implementation of the project vis-à-vis environmental action plans will be monitored by Ministry's Regional Office at Bangalore /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.
- ix. 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 should 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 should be forwarded to the Regional office.
- x. 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.
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, inter-alia under 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.


(Dr. P. L. Ahujarai)
Director

Copy to :-

1. Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi-110032.
2. Chairman, Karnataka State Pollution Control Board, 6,7,8&9th Floor, (Public Utility Building) Subhas Chandra Bose Building, M.G. Road, Bangalore-560001, Karnataka.
3. Chief Conservator of Forests (Central), Regional Office (SZ), Kendriya Sadan, IVth Floor, E&F Wing, 17th Main Road, Koramangalam, Bangalore-560034.
4. Secretary, State Department of Environment and Forests, Govt. of Karnataka, Bangalore.
5. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhawan, CGO Complex, New Delhi.
6. Guard File.
7. Monitoring File.
8. Record File.

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(Dr. P. L. Ahujarai)
Director