

F. No. J-11011/453/2009-IA II (I)
Government of India
Ministry of Environment and Forests
(I.A. Division)

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Dated 24th November, 2011

To, ✓
Shri Mallikarjun K Pujar, (Director)
M/s Vishwanath Sugar and Steel Industries Limited
Bellad-Bagewadi- 591305, Taluka Hukeri
District Belgaum, Karnataka

E -mail : vishwasugars@gmail.com ; Fax : 08333-267211.

Subject: Expansion of Sugar Plant (5,500-11,000 TCD), Molasses based Distillery Unit (35 KLPD to 100 KLPD), ENA Plant (20 KLPD to 75 KLPD) and Co-generation Power Plant (39 MW to 64 MW), establishment of Ethanol Plant (30 KLPD) and D.G. sets (2x1 MW) at Village Bellad-Bagewadi, Taluka Hukeri, District Belgaum, Karnataka by M/s Vishwanath Sugar and Steel Industries Limited, Karnataka - Environmental Clearance reg.

Ref. : Your letter no. VSSIL/303/2011-12 dated 19th April, 2011.

Sir,

Kindly refer your letter dated 19th April, 2011 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP report alongwith public hearing report and subsequent communications vide letters dated 30th July, 2011, 18th August, 2011 and 22nd September, 2011 on the above mentioned subject.

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for expansion of Sugar Plant (5,500-11,000 TCD), molasses based Distillery Unit (35 KLPD to 100 KLPD), ENA Plant (20 KLPD to 75 KLPD) and Co-generation Power Plant (39 MW to 64 MW), establishment of Ethanol Plant (30 KLPD) and D.G. sets (2x1 MW) at Plot Nos. 136, 139/1, 140/1, 140/2, 140/3, 140/4, 141/1, 148/3, 149/2, 149/3, 150/1, 150/2A, 150/2B, 151/2A, 151/1, 151/2C, 152 at Village Bellad-Bagewadi, Taluka Hukeri, District Belgaum, Karnataka. No litigation/ court case is pending against the project. Total project cost is Rs. 175.00 Crores. Total plot area is 132.85 acres. No reserved forest/wildlife sanctuary is located within 10 Km. Distillery, sugar and cogeneration will be operated for 270 days, 200-220 days and 300 days respectively.

3.0 ESP alongwith stack of adequate height will be provided to bagasse/coal fired boiler (100 TPH). Bag filter alongwith stack of adequate height will be provided to coal/bagasse fired boiler (13 TPH). Adequate stack height will be provided to DG set (2x1 MW). Total fresh water requirement from Ghataprabha River will be increased from 405 m³/day to 800 m³/day, 730 m³/day to 1105 m³/day and 385 m³/day to 1000 m³/day for sugar unit, cogeneration and distillery respectively after expansion. Spent wash from distillery will be treated in anaerobic digester followed by evaporation unit and bio-composting with pressmud. Effluent from sugar

unit will be treated in the effluent treatment plant (ETP). Bagasse will be used as boiler fuel. Coal boiler ash will be sold to brick manufacturers. Yeast sludge and press mud will be used of bio-composting.

4.0 Public hearing/public consultation meeting was held on 28th February, 2011.

5.0 All molasses based distilleries are listed at S.N. 5(g) (i) under category 'A' and appraised at Central level.

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 3rd and 25th meetings held during 15th - 16th September, 2009 and 28th-30th July, 2011 respectively. The Committee recommended the proposal for environmental clearance.

7.0 Based on the information submitted by the project proponent, 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) All the specific conditions and general conditions specified in the environmental clearance accorded vide Ministry's letter no. J-11011/48/2000-IA-II(I) dated 4th May, 2000 and SEIAA vide 19:IND:2007 dated 16th April, 2008 shall be implemented.
- ii) Distillery unit shall be based on molasses based only and no grain based distillery unit shall be operated.
- iii) Efforts shall be made to reduce PM₁₀ levels in the ambient air and a time bound action plan shall be submitted. As proposed, Electrostatic precipitator (ESP) alongwith stack of adequate height should be provided to boiler (100 TPH) to control particulate emission within 100 mg/Nm³. Bag filter alongwith stack of adequate height should be provided to boiler (13 TPH) to control particulate emission within 100 mg/Nm³. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Efficiency of pollution control device shall be monitored regularly. Stack monitoring report shall be submitted to the Ministry's Regional Office at Bangalore.
- iv) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.
- v) In plant, control measures for checking fugitive emissions from all the vulnerable sources shall be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Dust suppression system including water sprinkling system shall be provided at loading and unloading areas to control dust emissions. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored and records shall be maintained. The emissions shall conform to the limits prescribed by Karnataka State Pollution Control Board (KSPCB).

- vi) Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions.
- vii) The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB guidelines. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.
- viii) 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 respective Regional office of MOEF, the respective Zonal office of CPCB and the KSPCB. The levels of PM₁₀, PM_{2.5}, SO₂, NO_x and HC (Methane) in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- ix) Company shall follow good management practices viz. collection of waste yeast sludge from fermentation section in a closed system and proper disposal, reduced volume of effluent by adopting strategic approaches, closed drains carrying spentwash to the treatment units, minimization of fugitive emission from anaerobic treatment, proper collection & handling of excess sludge generated from the anaerobic & aerobic treatment units, minimum retention of treated & untreated spentwash in the lagoons, effective composting of the spentwash by controlled effluent spraying through mechanical system to avoid spillages & over application, blending of sludge in correct proportion with press mud, properly finished compost and green belt development with suitable plantation in and around the treatment units to mitigate odour from the distillery unit.
- x) Total fresh water requirement from Ghataprabha river shall not exceed 10 KL/KL of alcohol (i.e. 1000 m³/day) for distillery, 800 m³/day for sugar unit and 1105 m³/day for cogeneration unit (64 MW) and prior permission for drawl of water shall be obtained from the concerned authorities. No ground water shall be used.
- xi) Spent wash generation should not exceed 10 KI/KI of alcohol. Spent wash from distillery (100 KLPD) will be treated in anaerobic digester followed by evaporation unit and bio-composting. Spentlees, effluent from utilities and cogeneration unit should be treated in effluent treatment plant (ETP) and water quality of treated effluent should meet the norms prescribed by CPCB/SPCB and recycle/reuse within factory premises. Domestic effluent shall be treated through septic tanks followed by anaerobic filter and treated effluent shall be used for gardening purpose.
- xii) Wastewater generation from the sugar unit shall not exceed 100 litres per tonne of cane crushed. Effluent from sugar unit shall be treated in the effluent treatment plant comprising neutralization tank followed by two stage aeration system.
- xiii) As proposed, no effluent from sugar, distillery and co-generation power plant shall be discharged outside the premises and Zero discharge shall be adopted.
- xiv) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.

- xv) Spent wash shall be stored in impervious lagoon with HDPE lining as per CPCB guidelines and shall be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon shall not exceed 30 days.
- xvi) Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area should be set up. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids should be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Bangalore and KSPCB.
- xvii) Baggase storage shall be done in such a way that it does not get air borne or fly around due to wind.
- xviii) Company shall submit a copy of Memorandum of Understanding (MoU) with coal supplier for imported coal to the Ministry's Regional Office at Bangalore.
- xix) Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quality, becoming air borne by wind or water regime during rainy season by flowing alongwith the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasse ash and coal ash shall be stored separately.
- xx) Fire fighting system shall be as per the OISD 117 norms and cover all areas where alcohol is produced, handled and stored. Provision of foam system for fire fighting shall be made to control fire from the alcohol storage tank.
- xxi) Risk Assessment shall be carried to assess the fire and explosion risk due to storage of alcohol and report submitted to the Ministry and its Regional Office at Bangalore within six months.
- xxii) 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 regular medical test records of each employee shall be maintained separately.
- xxiii) Dedicated parking facility for loading and unloading of materials shall be provided in the factory premises. Unit shall develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.
- xxiv) Green belt shall be developed in 33 % of plot area to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO. Thick greenbelt with suitable plant species shall be developed around the proposed distillery to mitigate the odour problem.
- xxv) All the commitments made during the Public Hearing / Public Consultation meeting held on 28th January, 2011 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.

- xxvi) 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. The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board.
- ii. No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- iii. The locations of ambient air quality monitoring stations shall be decided in consultation with the Karnataka State Pollution Control Board (KSPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. 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 shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- v. The Company shall harvest rainwater from the roof-tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.
- vi. The Company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and its amendment time to time and prior permission from SPCB shall be obtained for disposal of solid / hazardous waste including boiler ash.
- vii. During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains.
- viii. Usage of Personnel Protection Equipments by all employees/ workers shall be ensured.
- ix. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

- x. The company shall also comply with all the environmental protection measures and safeguards proposed in the project report submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.
- xi. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.
- xii. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xiii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiv. The company shall earmark sufficient funds toward capital cost and recurring cost per annum 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 earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
- xv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
- xvi. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance 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 Karnataka State Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xvii. The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Maharashtra 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 Bangalore Regional Offices of MoEF by e-mail.
- xviii. 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 SPCB/Committee and may also be seen at Website of the Ministry 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 concerned Regional Office of the Ministry.

- xix. 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 the project.

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

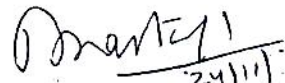
9.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

10.0 The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986 Hazardous Wastes (Management and Handling) Rules, 2003/ 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.


(Dr. P. B. Rastogi)
Director

Copy to :

1. The Secretary, Department of Environment & Ecology, Govt. of Karnataka, Room No. 708, Gate 2, Multi Storied Building, Dr. Ambedkar Veedhi, Bangalore - 560 001 secyenv-fee@karnataka.gov.in
2. The Chief Conservator of Forests, Regional Office (Southern Zone, Bangalore) Kendriya Sadan, 4th Floor, E&F Wing, II Block Koramangala, Bangalore-560034.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Karnataka State Pollution Control Board, #49, Parisara Bhavana, Church Street, Bangalore-01 (Karnataka).
5. Adviser, IA II(I), Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
6. Monitoring Cell, Ministry of Environment and Forests, Paryavaran Bhavan, CGO Complex, New Delhi.
7. Guard File/Monitoring File/Record File.


(Dr. P. B. Rastogi)
Director