

F. No. J-11011/705/2008- IA II (I)  
 Government of India  
 Ministry of Environment and Forests  
 (I.A. Division)

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 Dated 5<sup>th</sup> October, 2010

To,  
 The General Manager  
 M/s Bhairavnath Sugar Works Ltd  
 Sonari, Taluka Paranda,  
 District Osmanabad, Maharashtra

E-mail : [tgm02003@yahoo.co.in](mailto:tgm02003@yahoo.co.in); [danish\\_1017@yahoo.co.in](mailto:danish_1017@yahoo.co.in) ; Fax : 020-24378702;

Subject: Molasses Based Distillery Unit (30 KLPD) located at Village Sonari, Taluka Paranda, District Osmanabad, Maharashtra by M/s. Bhairavnath Sugar Works Limited. - Environmental Clearance req.

Ref. : Your letter no. nil dated 28<sup>th</sup> April, 2010.

Sir,

Kindly refer your letter no. nil dated 28<sup>th</sup> April, 2010 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report and subsequent clarification/additional information submitted vide letter dated 2<sup>nd</sup> August, 2010 regarding above mentioned project

2.0 The Ministry of Environment and Forests has examined the application. It is noted that proposal is for setting up of molasses based distillery (30 KLPD) to manufacture Rectified Spirit, Ethanol and Extra Neutral Alcohol based on continuous fermentation technology at Village Sonari, Taluka Paranda, District Osmanabad, Maharashtra. The total land area available is 130 acres and the distillery plant is proposed to be set up within the 2500 TCD sugar factory premises in an area of 25 acres. No forest land and R&R is involved. The unit will run for 270 days. Total cost of the project is Rs 22.00 Crores

3.0 Multi-cyclone followed by bag filter alongwith adequate stack height will be provided to boiler to control particulate emissions. The total water requirement (500 m<sup>3</sup>/day) will be met from the Kologan dam and existing bore well within sugar factory premises. Spent wash generation will be @ 8kl/kl of alcohol produced and treated in bio-methanation plant followed by bio-composting with press mud to achieve zero discharge. The power requirement (0.8 MW) will be met from the Co-generation power plant (15 MW). Yeast sludge will be used as manure and fly ash as per Fly Ash Notification, 1999 and subsequent amendments time to time.

4.0 Public Hearing / Public Consultation meeting held on 28<sup>th</sup> August, 2009.

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

*T. S. S. S. S.*  
 4/10/10

*S/c* *limited to 14.6 ac. on 7 x 10.*

*R. S. S. S.*

*15 Years*  
*15 Years*

*2009*

6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 10<sup>th</sup> meeting held during 29<sup>th</sup>-30<sup>th</sup> April, 2010 and 13<sup>th</sup> EAC (I-2) meeting held during 19<sup>th</sup>-20<sup>th</sup> August, 2010. 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 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS:**

- i) Environment clearance is accorded only for molasses based distillery unit (30 KLPD). As proposed, biomethanation followed by biocomposting method shall be adopted. No grain based distillery unit shall be set up without prior permission from the Ministry.
- ii) Efforts shall be made to reduce RSPM levels in the ambient air and a time bound action plan shall be submitted. Multi-cyclone followed by bag filters shall be provided to the boiler to control particulate emissions within 100 mg/Nm<sup>3</sup>. 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.
- iii) The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16<sup>th</sup> November, 2009 shall be followed.
- iv) 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 imposed by MPCB.
- v) 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.
- vi) 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 Regional office of MOEF, the respective Zonal office of CPCB and the Maharashtra Pollution Control Board. The levels of PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub>, NO<sub>x</sub> and HC (Methane and Non-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.
- vii) Total flush water requirement from Kolegaon dam and bore wells shall not exceed 500 m<sup>3</sup>/day and prior permission shall be obtained from the concerned Competent Authority/State Ground Water Authority/State Ground Water Board and a copy

submitted to the Ministry's Regional Office at Bhopal within 3 months of issue of environmental clearance letter

- viii) As proposed, spent wash generation shall not exceed 8 kl/kl of alcohol produced and treated in bio-methanation plant followed by bio-composting with press mud to achieve 'Zero' discharge. No effluent shall be discharged outside the premises and 'Zero' discharge shall be maintained.
- ix) 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 5 days capacity.
- x) Adequate numbers of ground water quality monitoring stations shall be set up by providing piezometers around the project area. Sampling and trend analysis monitoring must be made on monthly a basis and report submitted to MPCB and this Ministry.
- xi) Company shall adopt rainwater harvesting measures to recharge the ground water.
- xii) 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.
- xiii) 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 Bhopal within six months.
- xiv) As proposed, green belt shall be developed in 40 acres out of total 130 acres to mitigate the effects of fugitive emissions all around the plant as per CPCB guidelines in consultation with the local DFO.
- xv) 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 separate.
- xvi) All the commitments made during the Public Hearing / Public Consultation meeting held on 28<sup>th</sup> August, 2009 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xvii) 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, 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 Maharashtra 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 Maharashtra Pollution Control Board (MPCB) 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 shall be kept in line with the standards by providing noise control measures including acoustic enclosures, screens, 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 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 Maharashtra Pollution Control Board shall be obtained for disposal of solid / hazardous waste including boiler ash.
- vi. During transfer of materials, spillages shall be avoided and gulland drains be constructed to avoid mixing of accidental spillages with domestic wastewater and storm water drains
- vii. Usage of Personnel Protection Equipments (PPEs) by all employees/workers shall be ensured
- viii. 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.
- ix. 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
- x. The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.

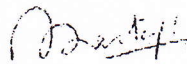
- xi. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- xii. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
- xiii. As proposed, the company shall earmark Rs. 2.43 crores and Rs. 29.95 lakhs towards 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.
- xiv. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from who suggestions/ representations if any, were received while processing the proposal.
- xv. 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 Maharashtra Pollution Control Board. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
- xvi. The environmental statement for each financial year ending 31<sup>st</sup> 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 Regional Offices of MoEF at Bhopal by e-mail.
- xvii. 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 MPCB/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.
- xviii. 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 Any appeal against this environmental clearance shall lie with the National Appellate Authority, if preferred, within a period of 30 days as prescribed under section 11 of the National Environment Appellate Authority Act, 1997.

11.0 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)  
Scientist 'F'

Copy to

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai - 400 032
2. The Chief Conservator of Forests (Central), Regional Office (Northern Zone), Bay No 24-25, Sector 31-A, Dakshim Marg, Chandigarh-160030
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, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022
5. Scientist G, 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)  
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