

Point Wise Compliance Report to Ministry Of Environment and Forests

MoEF Consent letter No: F. No J-11011/453/2009-IA II (I)

Expansion of Sugar Plant(5500-11000 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-Bagewad, Taluk Hukkeri, District Belagavi

ENVIRONMENTAL CLEARANCE VISHWARAJ SUGAR INDUSTRIES LTD, BELLAD BAGEWADI		
Sl. No	Specific Conditions:	Compliance
1	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.	Accepted and implemented.
2	Distillery Unit shall be based on molasses based only and no grain based distillery unit shall be operated.	Accepted and implemented
3	Efforts shall be made to reduce PM ₁₀ levels in the ambient air and a time bound action plan shall be submitted. As proposed, Electrostatic precipitator (ESP) along with stack of adequate height should be provided to boiler (80 TPH) to control particulate emission within 100 mg /Nm ³ . Bag filter along with stack of adequate height should be provided to boiler (10/12 TPH) to control particulate emission within 100 mg/Nm ³ . 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 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.	Accepted and implemented
4	The National Ambient Air Quality Emission Standards issued by the Ministry vide GSR No. 826 (E) dated 16th November, 2009 shall be followed.	Accepted
5	In plant, control measures for checking emissions from all the vulnerable sources shall be provided. Fugitive emission 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 to 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)	Accepted and implemented

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6	Pucca approach road to project site shall be constructed prior to commencing construction activity of the main distillery so as to avoid fugitive emissions.	Accepted and implemented
7	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 noise pollution.	Accepted and implemented
8	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 PM ₁₀ , PM _{2.5} SO ₂ 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.	Accepted and implemented
9	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 spent wash to the treatment units, minimization of fugitive emission from anaerobic treatment , proper collection and handling of excess sludge generated from anaerobic & aerobic treatment units, minimum retention of treated & untreated spent wash in the lagoons, effective composting of the spent wash by controlled effluent spraying through mechanical system to avoid spillages and 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.	Accepted and implemented
10	Total fresh water requirement from Ghataprabha river shall not exceed 10 KL/KL of alcohol (i.e. 1000 m ³ / day) for distillery, 800 m ³ /day for sugar unit and 1105 m ³ /day for from the concerned authorities. No. ground water shall be used.	Accepted and implemented
11	Spent wash generation should not exceed 10 KI/KI of alcohol. Spent wash from distillery (100 KPLD) 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 quantity 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.	Accepted and implemented
12	Waste water generation from the sugar unit not exceed 100 liters per tonne of cane crushed. Effluent from sugar unit shall be treated in the effluent treatment plant comparing neutralization tank followed by two stage aeration system.	Accepted and implemented

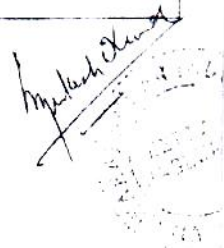
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13	As proposed no effluent from sugar, distillery and co-generation, power plant shall be discharged outside the premises and Zero discharge shall be adopted.	Accepted and implemented
14	Process effluent / any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.	Accepted and implemented
15	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.	Accepted and implemented
16	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 bases 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.	Provided
17	Baggase storage shall be done in such a way that it does not get air borne or fly around due to wind.	Provided
18	Company shall submit a copy of Memorandum of Understanding (MoU) with coal supplier for imported coal to the Ministry's Regional Office at Bangalore.	Accepted
19	Boiler ash shall be stored separately as per CPCB guidelines so that it shall not adversely affect the air quantity, becoming air borne by wind or water regime during rainy season by flowing along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Bagasse ash and coal ash be stored separately.	Accepted and implemented
20	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 the alcohol storage tank.	Accepted
21	Risk Assessment shall be carried to assess the fire and explosion due to storage of alcohol and report submitted to the Ministry and its Regional Office at Bangalore within six months.	Accepted
22	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 test records of each employee shall be maintained separately.	Accepted
23	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.	Accepted
24	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	Accepted and implemented

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	developed around the proposed distillery to mitigate the odour problem.	
25	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.	Accepted and implemented
26	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.	Accepted and implemented
GENERAL CONDITIONS:		
1	The project authorities shall strictly adhere to the stipulations made by the Karnataka State Pollution Control Board.	Accepted
2	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.	Accepted
3	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.	Accepted and implemented
4	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).	Accepted and implemented
5	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.	Accepted
6	The company shall obtain authorization for collection, Storage and disposal of Hazardous Waste under the Hazardous Waste (Management, Handling and Transboundary 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.	Accepted and implemented

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7	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.	Accepted and implemented
8	Usage of Personal protection Equipments by all employees /workers shall be ensured.	Accepted and implemented
9	Training shall be imparted to all employees on safety and health aspects as of chemicals handling. Pre-employment and routine periodical medical examinations for all employees shall be under taken on regular bases. Training to all employees on handling of chemicals shall be imparted.	Accepted and implemented
10	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 the respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Accepted and implemented
11	The company shall undertake CSR activities and all relevant measures for improving the socio-economic conditions of the surrounding area.	Accepted and implemented
12	The company shall undertake eco-developmental measures including community welfare measure in the project area for the overall improvement of the environment.	Accepted and implemented
13	A separate environmental management Cell equipped with full fledged laboratory facilities shall be setup to carry out the Environmental Management and Monitoring functions.	Implemented
14	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.	Implemented
15	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.	Accepted
16	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 reports shall be posted on the website of the company.	Accepted and implemented

M. K. Kulkarni



17	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the Karnataka State 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.	Accepted and implemented
18	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 of 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.	Accepted and implemented
19	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 started of the project.	Accepted and implemented

Amresh Choudhary
