

F. No. J-11011/263/2010- IA II (I)  
Government of India  
Ministry of Environment and Forests  
(I.A. Division)

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Dated 26<sup>th</sup> September, 2012

To,

Shri Rakesh Chhabra, Director  
M/s Rajasthan Liquors (P) Ltd.  
Village HaripurHinduan, Barwala Road  
Derabassi, District S.A.S. Nagar, Punjab

E-mail: [Chhabra\\_rakesh@yahoo.co.in](mailto:Chhabra_rakesh@yahoo.co.in) ;

**Subject: Distillery Plant (Grained based, 120 KLD) with Cogeneration Power Plant (3.0 MW) at Industrial FEZ, Village HaripurHinduan&Saidupura, Tehsil Derabassi and District Mohali, Punjab by M/s Rajasthan Liquors (P) Ltd. – Environmental Clearance reg.**

**Ref. : Your letter no. nil dated 30<sup>th</sup> June, 2011.**

Sir,

Kindly refer your letter dated 30<sup>th</sup> June, 2011 alongwith project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report, Public Hearing Report and subsequent submission of additional information vide letter dated 24<sup>th</sup> September, 2011, 23<sup>rd</sup> September, 2011 and 29<sup>th</sup> September, 2011 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 Distillery Plant (Grained based, 120 KLD) with Cogeneration Power Plant (3.0 MW) at Industrial FEZ, Village Haripur Hinduan & Saidupura, Tehsil Derabassi and District Mohali, Punjab by M/s Rajasthan Liquors (P) Ltd. Total plot area is 10.5 acres. Ghaghar River is located at 3.8 Km east. No national park/wildlife sanctuary/ biosphere reserve within 10 km. Kholhat Raitan Reserve Forest (10.07 Km). Total project cost is Rs. 80.00 Crores. Distillery will run for 330 days.

3.0 Multicyclone followed by bag filters alongwith stack of adequate height will be provided to rice husk/coal fired boiler. Total fresh water requirement from ground water source will be 1200 m<sup>3</sup>/day. Spent wash will be passed through decanter and concentrated in Multi-effect evaporator (MEE). Thick syrup and wet cake will be mixed together to form Distiller's Wet Grains with Soluble (DWGS) to achieve 'zero' discharge. Spentlees, MEE condensate and Utilities wastewater will be treated in the effluent treatment plant (ETP) and treated effluent will be recycled/reused within the factory premises. No effluent will be discharged outside the factory premises and 'zero' discharge concept will be maintained. Storage capacity for spent wash lagoon will be 5 days. DWGS will be dried to form Distiller's Dry Grains with Soluble (DDGS) and sold as cattle feed. Fly ash will be sold to the brick/cement manufacturers or used for land application. Spent oil will be sold to authorized recyclers/re-processors.

4.0 Public hearing/public consultation meeting was conducted on 18<sup>th</sup> April, 2011.

5.0 All cane juice/non-molasses based distillery (>30 KLD) are listed at S.N. 5(g) (ii) under category 'A' and appraised at Central level.

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6.0 The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 14<sup>th</sup>, 28<sup>th</sup> and 32<sup>nd</sup> meetings held during 16<sup>th</sup>-17<sup>th</sup> September, 2010, 20<sup>th</sup>- 21<sup>st</sup> October, 2011 and 16<sup>th</sup>-17<sup>th</sup> February, 2012 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 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. SPECIFIC CONDITIONS:**

- i) Environment clearance accorded is for grain based distillery unit (120 KLPD) only and no molasses based distillery unit shall be operated without prior permission from the Ministry.
- ii) Efforts shall be made to reduce PM<sub>10</sub> levels in the ambient air and a time bound action plan shall be submitted. As proposed, Multicyclone followed by bag filters alongwith stack of adequate height shall be provided to rice husk/coal fired boiler to control particulate emissions within 50 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 should be maintained. The emissions shall conform to the limits imposed by Punjab Pollution Control Board (PPCB).
- 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 PPCB. The levels of PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub>, CO 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.
- vii) Total fresh water requirement for distillery including CPP shall not exceed 10 KL/KL of the alcohol production (i.e. 1200 m<sup>3</sup>/day). Prior permission for the drawl of 1200 m<sup>3</sup>/day shall be obtained from the Central Ground Water Authority/State Ground Water Board. A copy of water permission from concerned Authority shall be submitted to the Ministry's Regional Office at Chandigarh.
- viii) Efforts shall be made to reduce the fresh water requirement from ground water source by adopting 3 R's (Reduce, Reuse and Recycle) concept.
- ix) Spent wash generation shall not exceed 6 KI/KI of alcohol production (i.e. 720 KLPD). As proposed spent wash shall be passed through decanter and concentrated in Multi-effect

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evaporator. Thick syrup and wet cake shall be mixed together to form DWGS to achieve 'zero' discharge. Spentlees, MEE condensate and Utilities wastewater shall be treated in ETP and water quality of treated effluent shall meet the norms prescribed by CPCB/SPCB and treated effluent shall be recycled/ reused within the factory premises.

- x) No effluent from distillery and co-generation power plant shall be discharged outside the factory premises and 'Zero' effluent discharge concept shall be adopted.
- xi) Distiller's Wet Grains with Soluble (DWGS) shall be fed to the dryer to form Distiller's Dry Grains with Soluble (DDGS).
- xii) Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- xiii) No storage of wet cake should be done at site to avoid odour problem.
- xiv) 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 be for 5 days.
- xv) 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. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office at Chandigarh and PPCB.
- xvi) Rice husk storage shall be done in such a way that it does not get air borne or fly around due to wind. For this, it shall be kept in wet form.
- xvii) 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.
- xviii) Proper utilization of fly ash shall be ensured as per Fly Ash Notification, 1999 as amendment in 2003. Fly ash shall be provided to cement and brick manufacturers for further utilization.
- xix) Detailed plan for disposal of boiler ash shall be submitted to the Ministry's regional office at Chandigarh within 1 month from dated of issue of letter.
- 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 Chandigarh 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.

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- xxiii) Dedicated parking facility for loading and unloading of material 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 in 33 % 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 18<sup>th</sup> April, 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 Punjab 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 Punjab Pollution Control Board (PPCB) 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 PPCB 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.

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- 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. As proposed, the company shall earmark Rs. 10crores and Rs. 1.0crore 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.
- 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 who 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 Punjab 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 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the Punjab 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 Chandigarh 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.

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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 Waste (Management, Handling and Trans-boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
(A N Singh)  
Dy. Director

**Copy to :-**

1. The Principal Secretary, Environment Department, Government of Punjab, Chandigarh.
2. The Chief Conservator of Forests, 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, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala, 147001, Punjab.
5. Joint Secretary, IA II(l), 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.

  
(A N Singh)  
Dy. Director