



Government of India  
Ministry of Environment, Forest and Climate Change  
(IA Division)

**Yogendra Pal Singh**  
**Scientist 'D'**

Indira Paryavaran Bhawan  
Aliganj, Jor Bagh Road  
New Delhi - 110 003

F. No. J-11011/261/2015-IA.II (I)

Telefax: 91-11-24695365  
E-mail : [yogendra78@nic.in](mailto:yogendra78@nic.in)

Dated: 19<sup>th</sup> April, 2017

To,

**The Director**  
**M/s NV Distilleries and Breweries Pvt. Ltd.**  
**10<sup>th</sup> Floor, Vandana Building,**  
**Atul Grove Lane, Connaught Place,**  
**New Delhi - 110 001**

**Sub: Proposed capacity enhancement in existing grain/molasses based distillery (120 KLPD to 144 KLPD) & co-generation power plant (10 MW to 11 MW) by modernization & efficiency improvement at Village Sandharshi, Rajpura, Patiala, Punjab by M/s NV Distilleries and Breweries Pvt. Ltd. - Environmental Clearance - reg.**

**Ref.: Your online proposal no. IA/PB/IND2/31450/2015; dated 9<sup>th</sup> January, 2017.**

Sir,

This has reference to your online proposal no. IA/PB/IND2/31450/2015; dated 9<sup>th</sup> January, 2017 along with project documents including Form I, Terms of References, Pre-feasibility Report along with EIA/EMP Report regarding above mentioned project.

2.0 The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for Proposed capacity enhancement in existing grain/molasses based distillery (120 KLPD to 144 KLPD) & co-generation power plant (10 MW to 11 MW) by modernization & efficiency improvement at village sandharshi, Rajpura, Patiala, Punjab by M/s NV Distilleries and Breweries Pvt. Ltd. Total plant area is 26.22 ha (64.79 Acres), out of which 8.66 ha (21.38 Acres) i.e. 33% of the total plant area has already been developed under greenbelt/plantation. The total Cost of the project for the expansion is ₹ 6 Crores. Capital cost for Environmental Protection Measures will be ₹ 2 Crores and Recurring Cost will be ₹ 0.5 Crores/annum. The total raw material requirement after the proposed capacity enhancement by modernization & efficiency improvement will be Grain (351 MTPD)/Molasses (605 MTPD) which will be obtained through vendors by road. Number of working days of the distillery unit will be 350 days/annum after proposed capacity enhancement. List of existing and proposed products are as follows:

Unit	Existing Capacity	Proposed Enhancement in Capacity	Total Capacity after enhancement
Distillery (Rectified Spirit, Extra Neutral Alcohol, Ethanol, Country Liquor & IMFL)	120 KLPD	24 KLPD	144 KLPD
Malt Spirit Plant	5 KLPD	NIL	5 KLPD
Co-generation Power Plant	10 MW	1 MW	11 W

3.0 It is reported that no national parks, wildlife sanctuaries, Reserve Forest (RF)/Protected Forests (PF), Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance. Ghaggar River (Seasonal) is flowing at a distance of 3 km in SE direction from the project site.

4.0 Existing fresh water requirement is 1542 m<sup>3</sup>/day from ground water source. No additional fresh water will be required after proposed capacity enhancement. Grain Slops (Spent Wash) is being/will be taken through Centrifuge Decanters for separation of Suspended Solids separated as Wet Cake & will then be treated in MEE followed by dryer. During Molasses based operation spent wash from analyzer column bottom is being/will be concentrated in integrated & stand alone MEE from initial 12% solid to 55% solid and transferred for complete incineration in a special boiler designed for spent wash. Distillery is being/will be based on Zero Effluent Discharge. No industrial waste water is being/will be discharged from the plant.

The total power requirement for proposed capacity enhancement will be 4.0 MW which will be sourced from 11 MW Co-Generation Power Plant and D.G. Sets (for back-up).

Existing unit has Incinerator boiler of 85 TPH with ESP and 72 m stack height. Fuel of incineration boiler is concentrated effluent with bagasse/coal. The capacity of boiler will remain unchanged. Thus, there will be no impact on air quality due to the proposed capacity enhancement. CO<sub>2</sub> will be generated during fermentation process will be collected and sold to authorized vendor.

DDGS will be ideally used as cattle feed. Yeast sludge is being/will be sent to the sludge drying beds or may be added to the Wet Cake. Ash from the boiler is being/will be given to brick manufacturers.

5.0 Public Hearing is exempted under Section 7 (ii) of EIA Notification, 2006.

6.0 All grain based distilleries more 30 KLPD are listed at Sl.No. 5(g) (ii) and All Molasses based distilleries are listed at Sl.No. 5(g) (i) of Schedule of EIA Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

7.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 19<sup>th</sup> EAC meeting held during 6<sup>th</sup> - 7<sup>th</sup> February, 2017. Project Proponent and the EIA Consultant namely M/s J M Enviro Net Pvt. Ltd., have presented EIA/EMP report as per the TOR. EAC has found the EIA/EMP Report to be

satisfactory and in full consonance with the presented TORs. The Committee recommended the proposal for environmental clearance.

8.0 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. ESP shall be provided to the existing concentrated effluent with bagasse/coal fired Incinerator boiler of 85 TPH to control particulate emissions within permissible limit. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
- ii. Existing fresh water requirement shall not increase from 1542 m<sup>3</sup>/day from ground water source after proposed capacity enhancement.
- iii. Grain Slops (Spent Wash) shall be taken through Centrifuge Decanters for separation of Suspended Solids separated as Wet Cake & will then be treated in MEE followed by dryer. During Molasses based operation spent wash from analyzer column bottom shall be concentrated in integrated & stand alone MEE from initial 12% solid to 55% solid and transferred for complete incineration in a special boiler designed for spent wash.
- iv. As proposed, no effluent from distillery shall be discharged outside the plant premises and Zero discharge shall be adopted. Water consumption shall be reduced by adopting 3 R's (reduce, reuse and recycle) concept in the process.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- vi. The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.
- vii. Continuous online (24x7) monitoring to be installed for flow measurement and measurement of pollutants within the treatment unit. Data to be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
- viii. Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area and compost yard shall be set up. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to SPCB and this Ministry. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate and total dissolved solids shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office and SPCB.
- ix. Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.
- x. Boiler ash from distillery as well as sugar plant 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 along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Proper ash management for its end use to drawn and consent to be obtained accordingly.



- xi. As proposed DDGS will be ideally used as cattle feed. Yeast sludge is being/will be sent to the sludge drying beds or may be added to the Wet Cake. Ash from the boiler is being/will be given to brick manufacturers.
- xii. 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.
- xiii. 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.
- xiv. As proposed, green belt shall be developed within plant premises with at least 10 meter wide green belt of perennial trees on all sides along the periphery of the project area, in downward direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the DFO.
- xv. An Environment Cell will be set up with one environmental Manager having post graduate qualification in environmental sciences/Environmental engineering.
- xvi. At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office. Implementation of such program shall be ensured accordingly in a time bound manner within 5 years.

**B. GENERAL CONDITIONS:**

- i. The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and any other statutory authority.
- 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 State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
- iv. 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.
- v. 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).



- 2 ;
- vi. 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.
  - vii. 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.
  - viii. The company shall also comply with all the environmental protection measures and safeguards proposed in the documents 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.
  - ix. The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.
  - x. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
  - xi. A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
  - xii. The company shall earmark sufficient funds 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.
  - xiii. A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
  - xiv. 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 SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
  - xv. The environmental statement for each financial year ending 31<sup>st</sup> March in Form-V as is mandated shall be submitted to the concerned 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 respective Regional Offices of MoEF by e-mail.
  - xvi. 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://moef.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.
- xvii. 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.

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


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

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 Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
19.4.2017  
(Yogendra Pal Singh)  
Scientist 'D'

**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 Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Chairman, Punjab Pollution Control Board, Vatavaran Bhawan, Nabha Road, Patiala - 147 001, Punjab.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
6. Guard File/Monitoring File/Record File/Notice Board.

  
19.4.2017  
(Yogendra Pal Singh)  
Scientist 'D'