

STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY HARYANA
Bay No. 55-58, Prayatan Bhawan, Sector-2, PANCHKULA.
Revised/Amended Environment Clearance Letter
[To be substituted with same number and date]

No. SEIAA/HR/2014/481

Dated: 21-12-2013
 07-11-2014

To,

M/s. Naraingarh Sugar Mills Limited
 P.O. Shahzadpur, Tehsil Naraingarh,
 District Ambala – 134202 (Haryana)

Subject: Environmental Clearance for 25 MW Co-Generation Power Plant and Expansion cum modernization of existing sugar Mills from 2500 TCD Capacity to 5500 TCD Capacity within Existing Premises at Naraingarh Sugar Mills Limited, Naraingarh District Ambala (Haryana) by M/s Naraingarh Sugar Mills Limited.

Dear Sir,

This has reference to your letter no. application no. NSM/COGEN/EC/2012 dated 05-04-2012 along with project documents including Form I, proposed TOR, Pre-feasibility Report seeking Environmental Clearance for the expansion cum modernization existing sugar mill from 2500 TCD Capacity to 5500 TCD Capacity under the EIA Notification, 2006. The proposal has been appraised as per prescribed procedure in the light of provisions under the EIA Notification, 2006 on the basis of the mandatory documents enclosed with the application viz., Form-1 pre-feasibility project report, proposed TOR and the additional clarifications furnished in response to the observations of the State Expert Appraisal Committee (SEAC) constituted by MOEF, GOI vide their Notification 21.4.2008/23.3.2012 in its meetings held on 31-05-2012 and 22-07-2013.

[2] It is inter-alia noted that proposal is for expansion of sugar plant (2500 TCD to 5500 TCD) and setting up of bagasse based Co-generation power plant having 25 MW capacities within existing premises at Naraingarh Sugar Mills Limited, Village Banondi, Tehsil Naraingarh District Ambala (Haryana). No national parks/sanctuaries/ reserve forests are located within 10 Km. Total plot area is 55.988 Acres and proposed expansion will be carried out within the existing sugar plant premises. ESP along with adequate stack height will be provided to baggase boilers (1 No. x 135 TPH) to control particulate emissions within 100 mg/Nm³. Total fresh water requirement from Ground water will be 971 m³/day. Waste water generation from Sugar Mill after treatment in ETP will be used for irrigation purpose due to its high nutrients value. No effluent will be discharged outside the premises. Storage capacity for spent wash lagoon will not be more than 30 days. Baggase from sugar plant will be used as fuel in co-gen boiler. The project proponent has proposed to setup 25 MW Biomass based co-gen power plant to meet with the power requirement and surplus power will be sold. Boiler

ash will be sent to brick manufacturers/cement plant. Total project cost is Rs. 161 Crores.

[3] It was noticed that project is covered under item no.5 (j) of EIA notification dated 14.9.06 and SEAC has appraised this project as category B-I project. The TOR's were approved on 31-05-2012. The public hearing in this case was conducted on 10-04-2013. The project proponent on the basis on approved TOR's and public hearing submitted EIA/EMP on 06-06-2013.

[4] The State Expert Appraisal Committee, Haryana after due consideration of the relevant documents submitted by the project proponent and additional clarification furnished in response to its observations have recommended the grant of environmental clearance for the project mentioned above subject to compliance with the stipulated conditions. Accordingly, the State Environment Impact Assessment Authority in its meeting held on 18-10-2013 and 14.10.2014 decided to accept the recommendation of SEAC and to accord necessary environmental clearance for the project under Category 5 (j) and 1 (d) of EIA Notification 2006 subject to the strict compliance with the specific and general conditions mentioned below:-

A. SPECIFIC CONDITIONS:

- [1] Efforts shall be made to reduce PM_{2.5} PM₁₀ 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 shall be provided to boiler 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.
- [2] 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.
- [3] 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 Haryana State Pollution Control Board (HSPCB).
- [4] Pucca approach road to project site shall be constructed prior to commencing construction activity of the sugar mill so as to avoid fugitive emissions.

- [5] 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.
- [6] 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 HSPCB. The levels of PM₁₀, PM_{2.5}, SO₂ and NO_x in ambient air shall be monitored and displayed at a convenient location near the main gate of the company and at important public places.
- [7] Total fresh water requirement from Ground water (Bore well) shall not exceed 970 m³/day for this project and prior permission for drawl of water shall be obtained from the concerned authorities.
- [8] Effluent from sugar unit shall be treated in the effluent treatment plant comprising neutralization tank followed by two stage aeration system. ETP treated water should be used for farming / gardening within industry's premises. Domestic sewage shall be transferred into aeration tank for treatment.
- [9] As proposed, no effluent from sugar plant shall be discharged outside the premises and Zero discharge shall be adopted.
- [10] Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- [11] 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 Chandigarh and HSPCB.
- [12] Baggase storage shall be done in such a way that it does not get air borne or fly around due to wind.
- [13] 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 along with the storm water. Direct exposure of workers to fly ash & dust shall be avoided. Baggase ash shall be stored separately.
- [14] Till the plant is ready for expansion, the project proponent have to ensure for compliance of pollution control norms stipulated in consent to operate for existing unit.
- [15] Fire fighting system shall be as per the norms and cover all areas.
- [16] Risk Assessment shall be carried to assess the fire and explosion risk.

- [17] 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.
- [18] 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.
- [19] 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.
- [20] All the commitments made during the Public Hearing / Public Consultation meeting held on 10th April, 2013 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- [21] 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.
- [22] Only bagasse/biomass should be used as fuel. Not to use wood logs, coal as fuel and no other fuels should be used.
- [23] No ground water shall be drawn for the power plant at any stage. Treated waste water shall be used for sugar cane seed farm/ green belt development. There should be no waste water discharge from the plant.
- [24] The infrastructure of transport roads linking to the nearest main road shall be improved and maintained by proponent.

B. GENERAL CONDITIONS:

- [i] The project authorities shall strictly adhere to the stipulations made by the Haryana State Pollution Control Board.
- [ii] No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA/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 Haryana State Pollution Control Board (HSPCB) 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] Corporate Environment and Social Responsibility (CSER) shall be laid down by the project proponent (2% shall be earmarked) as per guidelines of MoEF, GoI Office Memorandum No. J-11013/41/2006-IA.II(I) dated 18.05.2012 and Ministry of Corporate Affairs, GoI Notification Dated 27.02.2014. A separate audit statement shall be submitted in the compliance. Environment related work proposed to be executed under this responsibility shall be undertaken simultaneously. The project proponent shall select and prepare the list of the work for implementation of CSER of its own choice and shall submit the same before the start of construction.

- [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. 15 Crores and Rs. 1.00 Crores toward capital cost and recurring cost per annum to implement the conditions stipulated by the SEIAA/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 SEIAA Haryana and respective Regional Office of MoEF, the respective Zonal Office of CPCB and the Haryana 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 Haryana 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 SEIAA. 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.
- [xx] The SEIAA may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
- [xxi] The SEIAA reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
- [xxii] 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, Hazardous Wastes (Management, Handling and Trans boundary Movement) Rules, 2008 and the Public Liability Insurance Act, 1991 along with their amendments and rules.



**Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula.**



Endst. No. SEIAA/HR/2014

Dated:.....

A copy of the above is forwarded to the following:

1. The Additional Director (IA Division), MOEF, GOI, Indra Paryavaran Bhavan, Zor bagh Road-New Delhi.
2. The Regional office, Ministry of Environment & Forests, Govt. of India, Sector 31, Chandigarh.
3. The Chairman, Haryana State Pollution Control Board, Pkl.

**Member Secretary,
State Level Environment Impact
Assessment Authority, Haryana, Panchkula.**