

F. No. J-11011/125/2014-IA-II (I)
Government of India
Ministry of Environment, Forest and Climate Change
(Impact Assessment Division)

Indira Paryavaran Bhawan
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Dated: 22nd February, 2017

To,

The Chief Executive Officer
M/s Siddhi Sugar and Allied Industries Limited
Maheshnagar, Ujana, Tal-Ahmedpur,
District – Latur – 413 515,
Maharashtra

Sub: Molasses based distillery unit (30 KLPD) at Maheshnagar, Post-Ujana, Tal – Ahmedpur, Dist. – Latur, Maharashtra by M/s Siddhi Sugar and Allied Industries Limited – Environmental Clearance – reg.

Ref: Online Proposal No. IA/MH/IND2/30512/2015 dated 31st August, 2015.

Sir,

This has reference to your online proposal No. IA/MH/IND2/30512/2015 dated 31st August, 2015 along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report along with Public Hearing Report regarding the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the application. It is noted that the proposal is for setting up of Molasses based distillery unit (30 KLPD) at Maheshnagar, Post-Ujana, Tal-Ahmedpur, Dist-Latur, Maharashtra by M/s Siddhi Sugar and Allied Industries Limited. As informed and as per the documents submitted by the Project Proponent (PP), the plot area is 15.5 acre, of which area earmarked for greenbelt is 4.0 acre. The cost of project is ₹ 39.01 Crore. Out of which amount earmarked for EMP is ₹ 14.07 Crore. Funds earmarked for ESR activity are ₹ 1.95 Crore. It is reported that no National Park/Wildlife Sanctuary/Biosphere Reserve/Eco-sensitive area are located within 10 km distance from the project site. River Manyar is flowing at a distance of 3.0 km from the project site. Artificial ponds/tanks and Limboti dam are located within 10 km distance from the project site.

3. All molasses based distilleries are listed at S.No. 5(g) (i) of Schedule of Environmental Impact Assessment (EIA) Notification under Category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).



4. The project proposal was considered by the Expert Appraisal Committee (Industry -2) in its 19th meeting held during 28th-30th May, 2014, 4th meeting held during 11th-12th February, 2016 and 13th meeting held during 26th-27th September, 2016. The Project Proponent and the accredited consultant M/s Vasantdada Sugar Institute, Pune, gave a detailed presentation on the salient features of the project and proposed environmental protection measures to be undertaken, as per Terms of References (TORs) awarded in the 19th meeting held during 28th – 30th May, 2014 for preparation of EIA-EMP report. The TOR letter was issued vide Ministry's letter of even no. dated 05th August, 2014.

5. Public Hearing for the proposed project has been conducted by the Maharashtra Pollution Control Board on 21st February, 2015. The issues were raised regarding pollution control measures, wastewater generation, local employment, etc. The EAC has deliberated upon the issues raised during the public hearing and noted that the issues have satisfactorily been incorporated in the final EIA-EMP report.

6. The PP has informed the EAC that the ambient air quality (AAQ) monitoring was carried out at 9 locations during February-May, 2014. The baseline data indicates the ranges of concentrations as:- PM₁₀ (48.1 µg/m³ to 77.9 µg/m³), PM_{2.5} (18.8 µg/m³ to 30.99 µg/m³), SO₂ (5.6 µg/m³ to 8.1 µg/m³) and NO_x (7.1 µg/m³ to 13.4 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental ground level concentrations (GLCs) after the proposed project would be 0.1 µg/m³ and 0.62 µg/m³ with respect to PM₁₀ and SO₂ respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

7. The PP has informed that the fresh water requirement from Manar (Manyad) river will be 300 m³/day. Spentwash will be treated in the biomethanation plant followed by concentration in the MEE. Concentrated spent wash will be composted with press mud. MEE condensate will be treated in the condensate Polishing Unit (CPU). Spentlees, condensate of MEE and other effluents will be treated in condensate polishing unit (CPU); treated water will be reused for distillery activities. No effluent will be discharge outside the plant premises. Bagasse ash will be used for composting. Sludge from the fermentation will be composted. PP has also confirmed that ESP/bagfilter will be provided to bagasse fired boiler to control particulate emissions.

8. The EAC, in its 13th meeting held during 26th-27th September, 2016, has found that the final EIA/EMP report submitted by the PP is adequate. The EAC after detailed deliberations, on the basis of the information and presentation made by the PP, has recommended the project for environmental clearance with certain conditions.

9. Based on the proposal and information submitted by the Project Proponent, and based on the recommendation by the Expert Appraisal Committee (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September 2006, subject to the compliance of the following Specific and General Conditions:



A. Specific Conditions:

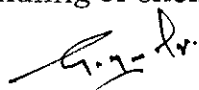
- i. Electrostatic precipitator (ESP) alongwith stack of adequate height should be provided to additional bagasse fired boiler to control particulate emissions within 50 mg/Nm³.
- ii. Pucca approach road to project site should be constructed prior to commencing construction activity of the main distillery to avoid fugitive emissions.
- iii. Total fresh water requirement from Manyar (Manyad) river shall not exceed 300 m³/day. No ground water shall be used without permission. Effort shall be made to use recycled water from sugar and condensate of MEE for the co-generation power unit.
- iv. Spent wash generation from molasses based distillery shall not exceed 8 Kl/Kl of alcohol. The spent wash from molasses based distillery shall be treated in bio-methanation reactor. Treated spent wash will be evaporated in MEE and concentrated spent wash will be bio-composted by mixing with press mud generated from sugar unit to achieve 'Zero' discharge. Effluent from sugar, spentlees, utilities effluent and evaporator Condensate shall be treated in effluent treatment plant and recycled/reused in process. No effluent shall be discharged outside the premises and 'Zero' discharge shall be maintained.
- v. Spent wash shall be stored in impervious RCC lagoon with HDPE lining as per CPCB guidelines and should be kept in proper condition to prevent ground water pollution. Storage capacity of spent wash lagoon should be for 30 days.
- vi. As proposed, no effluent distillery should be discharged outside the premises and Zero discharge shall be achieved.
- vii. Company shall ensure the quality and marketability of bio-compost produced by distilleries by standard labelling such as 'AGMARK'.
- viii. 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.
- ix. Bagasse storage should be done in such a way that it does not get air borne or fly around due to wind.
- x. Boiler ash should be stored separately as per CPCB guidelines so that it should 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 should be avoided. Bagasse ash and coal ash should be stored separately.
- xi. Occupational health surveillance programme should be undertaken as regular exercise for all the employees. The first aid facilities in the occupational health centre should be strengthened and the regular medical test records of each employee should be maintained separately.
- xii. Dedicated parking facility for loading and unloading of material should be provided in the factory premises. Unit should develop and implement good traffic management system for their incoming and outgoing vehicles to avoid congestion on the public road.



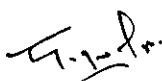
- xiii. All the issues raised during the public hearing/consultation meeting held on 21st February, 2015 should be satisfactorily implemented.
- xiv. As proposed, green belt over 33% of total land shall be developed within plant premises with at least 10 meter wide green belt on all sides along the periphery 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. At least 5 % of the total cost of the project should be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details should be prepared and submitted to the Ministry's Regional Office at Nagpur. Implementation of such program should be ensured accordingly in a time bound manner.
- xvi. Restoration of village ponds should be given priority and incorporated in the CSR activity plan.
- xvii. 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.

B. General Conditions:

- i. The project authorities must strictly adhere to the stipulations made by the Maharashtra Pollution Control Board, 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, Forest and Climate Change. 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 16th 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).
- 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, Forest and Climate Change 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, Zilla Parishad/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&CC, 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 31st 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&CC 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.



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


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

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


22.2.2017
(Yogendra Pal Singh)
Scientist 'D'

Copy to:-

1. The Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, Mumbai- 400 032.
2. Additional Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Regional Office(WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th floor, Opp. Cine Planet, Sion Circle, Mumbai-400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh, New Delhi- 110 003.
6. Guard File/Monitoring File/Website/Record File.


22.2.2017
(Yogendra Pal Singh)
Scientist 'D'