

F. No. J-11011/101/2015-IA.II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assessment Division)

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Dated: 11<sup>th</sup> April, 2017

To,

The Managing Director  
Sharad Fattasing Kadam  
M/s Sonhira Sahakari Sakhar Karkhana Ltd  
Post Wangi, Taluka-Kadegaon, Dist. Sangli  
Maharashtra

**Sub: Expansion of Sugar plant (2500 TCD to 7000 TCD), Distillery (30 KLPD to 60 KLPD) and Co-generation power plant (22 MW to 34 MW) at Mohanrao Kadam Nagar, at Post Wangi, Taluka Kadegaon, Dist. Sangli, Maharashtra by M/s Sonhira Sahakari Sakhar Karkhana Ltd.-Environmental Clearance - reg.**

**Ref: Online Proposal No. IA/MH/IND2/59239/2015 dated 03<sup>rd</sup> November, 2016.**

Sir,

This has reference to your online proposal no. IA/MH/IND2/59239/2015 dated 03<sup>rd</sup> November, 2016, along with project documents including Form I, Terms of References, Pre-feasibility Report and EIA/EMP Report 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 Expansion of Sugar plant (2500 TCD to 7000 TCD), Distillery (30 KLPD to 60 KLPD) and Co-generation power plant (22 MW to 34 MW) at Mohanrao Kadam Nagar, at Post Wangi, Taluka Kadegaon, Dist. Sangli, Maharashtra by M/s Sonhira Sahakari Sakhar Karkhana Ltd. As informed and as per the documents submitted by the Project Proponent (PP), Existing land area is 109.306 ha and the proposed expansion will be done within the plant premises. No additional land will be required for the proposed expansion. Almost 33% i.e. 36 hectares of the total plant area has already been developed as greenbelt/plantation and the same will be maintained. The total cost of the project for the expansion is ₹ 214.44 Crores. Capital cost for Environmental Protection Measures will be ₹ 18.0 Crores. 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 from the project site. The PP proposed for the following products in the plant:

#	Product	Production			Working days
		Existing	Proposed	Total	
1	Sugar	2500 TCD	4500TCD	7000 TCD	190
2	Co-generation power plant	22 MW	12 MW	34 MW	190
3	Distillery	30 KLPD	30 KLPD	60 KLPD	270

3. 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).

4. The project proposal was considered by the Expert Appraisal Committee (Industry) in its 40<sup>th</sup> meeting held during 18<sup>th</sup>-19<sup>th</sup> May, 2015 and recommended Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 13<sup>th</sup> July, 2015.
5. The project proposal was considered by the Expert Appraisal Committee (Industry -2) in its 17<sup>th</sup> meeting held during 26<sup>th</sup> - 29<sup>th</sup> December, 2016 for environmental clearance (EC). The Project Proponent and the accredited consultant M/s SD Engineering Services Pvt. Ltd., Aurangabad 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 40<sup>th</sup> meeting held during 18<sup>th</sup>-19<sup>th</sup> May, 2015.
6. The PP has obtained environmental clearance (EC) from MoEF&C for the existing distillery unit (30 KLPD) vide letter no. J-11011/87/2003-IA.II (I) dated 1<sup>st</sup> April, 2004 and SEIAA has issued EC vide letter no. SEAC2010/CR 542/TC-2 dated 14.09.2011. Regional Office of MoEF&CC at Nagpur vide letter no. EC-40/RON/2016-NGP dated 02.08.2016 has submitted the certified copy of statement of compliance to the environmental conditions prescribed in the existing EC. The EAC has deliberated on the certified compliance report and found that there are mainly one not complied point i.e. distillery is operating more than 270 days. PP informed that they will strictly follow the condition. Committee found Certified Compliance report satisfactory.
7. Public Hearing for the proposed project has been conducted by the Maharashtra Pollution Control Board 23.06.2016. The EAC has deliberated upon the issues raised during the public hearing. The concerns were raised regarding air pollution, benefits of proposed products, compost management, wastewater, water requirement and skill development programme etc. The EAC noted that the issues have satisfactorily been responded by the project proponent and incorporated in the final EIA-EMP report.
8. The PP has carried out ambient air quality monitoring at 9 locations during October to December, 2016 and the baseline data indicates the ranges of concentrations as: PM10 (24.9 µg/m<sup>3</sup> to 38.4 µg/m<sup>3</sup>), PM2.5 (8.8µg/m<sup>3</sup> to 18.7 µg/m<sup>3</sup>), SO<sub>2</sub> (7.1 µg/m<sup>3</sup> to 8.7 µg/m<sup>3</sup>) and NO<sub>2</sub> (8.9µg/m<sup>3</sup> to 11.1 µg/m<sup>3</sup>) respectively. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).
9. Power requirement will be 6950 kw/hr for sugar, 413 kw/hr for co-gen unit & 1380 kw/hr for Distillery the same will be met through own generation. Existing unit has 2 bagasse fired boilers of 115 and 10 TPH capacity. Under proposed expansion, 01 bagasse fired boiler of 80 TPH with 80 m stack height and 01 Bio-gas fired boiler of 10 TPH capacity with 52 m stack height will be installed. ESP will be provided to control particulate emission. Two DG sets of 500 KVA each will be used.
10. Fresh water requirement will be increased from 1635 m<sup>3</sup>/day to 2275 m<sup>3</sup>/day, which will be sourced from the Chinchani Dam.
11. Spent wash will be first treated in Bio-Digester (Bio-Methanation) and after that will be concentrated in evaporator and concentrate will be used for bio composting. Ash from the Boiler will be used in bio-composting & also given to nearby brick manufacturers. Yeast sludge and Digesters sludge will be finally disposed as Mixing with Press Mud and converted to bio compost which will be made available to nearby farmers.
12. The EAC, in its 17<sup>th</sup> meeting held on 26<sup>th</sup>- 29<sup>th</sup> December, 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.

13. Based on the proposal and information submitted by the Project Proponent, and considering the recommendation of 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 14<sup>th</sup> September 2006, subject to the compliance of the following Specific and General Conditions:

**A. Specific Conditions:**

- i. ESP with adequate stack height for dispersion and for proposed boiler. 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.
- ii. Fresh Water requirement shall not exceed 2275m<sup>3</sup>/day from the Chinchani Dam and prior permission should be obtained from the concerned authority.
- iii. Spent wash shall be treated in Bio-Digester (Bio-Methanation) and after that will be concentrated in evaporator and concentrate will be used for bio composting.
- iv. Automatic/online monitoring system (24x7 monitoring devices) for flow measurement and relevant pollutants in the treatment system to be installed. The data to be made available to the respective SPCB and in the Company's website.
- v. Spent wash shall be stored in impervious RCC lagoons with proper lining with HDPE and shall be kept in proper condition to prevent ground water pollution. The storage of spent wash shall not exceed 5 days capacity.
- vi. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- vii. 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.
- 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 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 shall be monitored. Sampling and trend analysis monitoring must be made on monthly basis and report submitted to the Ministry's Regional Office at Nagpur and SPCB.
- ix. As proposed, green belt over 33 % of the total project area should 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.
- x. All the commitments made during the Public Hearing/Public Consultation meeting held on 23.06.2016 should be satisfactorily implemented and adequate budget provision should be made accordingly.
- xi. 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.
- xii. A regular environment manager having post graduate qualification in environmental sciences/environmental engineering to be appointed for looking after the environmental management activities of the proposed plant.
- xiii. The unit shall adhere to Zero Liquid Discharge (ZLD).

**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 station 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).
- 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 and risk mitigation measures 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 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&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.

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

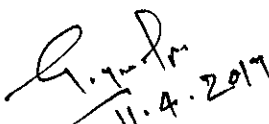
15. The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.

16. 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.

  
11.4.2017  
(Yogendra Pal Singh)  
Scientist 'D'

**Copy to:-**

1. The Secretary, Environment Department, Government of Maharashtra, 15<sup>th</sup> Floor, New Administrative Building, Mantralaya, Mumbai - 400 032.
2. The 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 - 440 001.
3. The Chairman, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 110 032.
4. The Chairman, Maharashtra Pollution Control Board, Kalapataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, Mumbai - 400 022.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh, New Delhi - 110 003.
6. Guard File/Monitoring File/Website/Record File.

  
11.4.2017  
(Yogendra Pal Singh)  
Scientist 'D'

