

Yogendra Pal Singh

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

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Scientist 'D' F. No. J-11011/225/2015-IA-II (I)

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Dated: 28th March, 2017

To,

The Managing Director
M/s Shree Chhatrapati Shahu
Sahakari Sakhar Karkhana Ltd.
Village & Taluka - Kagal,
District Kolhapur - 416216
Maharashtra

Sub: Expansion of Sugar Plant (from 4950 to 7000 TCD), Co-gen Power Plant (from 12.5 MW to 28 MW) and Molasses based Distillery unit (from 45 KLPD up to 60 KLPD) at Village & Taluka Kagal, District Kolhapur, Maharashtra by M/s Shree Chhatrapati Shahu Sahakari Sakhar Karkhana Ltd. - Environmental Clearance - reg.

Ref.: Your online proposal no. IA/MH/IND2/30200 /2015; dated 22nd December, 2016.

Sir,

This has reference to your online proposal no. IA/MH/IND2/30200/2015; dated 22nd December, 2016 along with project documents including Form I, Terms of References, Pre-feasibility Report, EIA/EMP Report along with Public Hearing Report regarding above mentioned project.

The Ministry of Environment, Forests and Climate Change has examined the 2.0 application. It is noted that proposal is for Expansion of Sugar Plant (from 4950 to 7000 TCD), Co-gen Power Plant (from 12.5 MW to 28 MW) and Molasses based Distillery unit (from 45 KLPD up to 60 KLPD) at Village & Taluka Kagal, District Kolhapur, Maharashtra by M/s Shree Chhatrapati Shahu Sahakari Sakhar Karkhana Ltd. Total Plant area is 14,00,000 m², Out of which green belt will be developed in 4,67,980 m² (33 %) area. The existing project cost is ₹ 222 crore and proposed Cost of the project for the expansion is ₹ 75 Crores. Capital cost for Environmental Protection Measures will be ₹ 40 Crores and Recurring Cost will be ₹ 7.15 Crores/annum. The raw material i.e. molasses, which will be obtained from own Sugar Factory. Proposed distillery will work for about 270 days. It will not work during monsoon. Proposed project will provide employment to 180 persons. 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. Following are the list of existing and proposed products:

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Industrial Unit	Product	Quantity		
		Existing (4,950 TCD)	Expansion (2,050 TCD)	Total (7,000 TCD)
Sugar Factory	White Sugar	19,850 MT/M	7,380 MT/M	27,230 MT/M
	By-product			
	Molasses	5,940 M T/M	2,460 MT/M	8,400 MT/M
	Bagasse	44,550 MT/M	18,450 MT/M	63,000 MT/M
	Press mud	5,940 MT/M	2,460 MT/M	8,400 MT/M
Co-Gen	Product	Existing	Expansion	Total
	Electricity	12.5 MW	15.5 MW	28 MW
Distillery	Product	Existing (45 KLPD)	Expansion (15 KLPD)	Total (60 KLPD)
	Rectified Spirit /ENA	1,350 KL/M	450 KL/M	1,800 KL/M

3.0 Existing fresh water for Sugar and Co-gen unit is 368 m3/day. Under proposed expansion additional fresh water requirement for Sugar + Co-gen unit will be 5 m3/day. Fresh water requirement for distillery unit will be decreased from 517 m3/day to 291 m3/day. Committee suggest to PP that no additional fresh water for Sugar and Co-gen unit will be used, PP agree with this. Fresh water will be sourced from Dudhganga River. Spent wash will be treated in Bio-methanation Plant followed by Concentration in MEE & used for bio-composting along with filler material. Effluent from existing as well as expansion of sugar factory & co-gen plant will be treated in existing ETP. Further, the treated effluent shall be used for gardening in own factory premises as well as industry's farm land. Domestic waste water will be treated in STP.

Bagasse would be used as fuel for existing 70 TPH & 60 TPH boiler with ESP and 70.5 m stack height. Additionally Biogas or Bagasse fired boiler of 40 TPH will be used under proposed expansion with ESP and 40 m Stack height. Electricity required for manufacturing operations will be met from in-house co-generation plant. The D.G. Sets is used only during power failure. Under existing Sugar factory, co-gen plant and distillery two D.G. sets of 500 KVA & two DG sets of 300 KVA capacity are already installed.

Used Oil in MS Barrels will be burnt in boiler with bagasse. Boiler ash will be sent to Brick manufacturing unit/composting. Yeast sludge will be used in Bio composting.

- 4.0 Public Hearing/Public Consultation meeting was conducted State Pradesh Pollution Control Board on 8th November, 2016.
- 5.0 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).
- 6.0 The proposal was considered by the Expert Appraisal Committee (Industry) in its 18th meetings held during 23rd-25th January, 2017. Project Proponent and the EIA Consultant namely M/s Equinox Environments (India) Pvt. Ltd., have presented EIA/EMP report as per the TOR. EAC has found the EIA/EMP Report is satisfactory

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and in full consonance with the presented TORs. 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 14th September 2006, subject to the compliance of the following Specific and General Conditions:

A. SPECIFIC CONDITIONS:

- i. ESP along with 40 m stack height shall be provided to Biogas or Bagasse fired boiler (40 TPH) to control particulate emission.
- ii. Existing fresh water for Sugar and Co-gen unit is 368 m3/day. Fresh water requirement for distillery unit shall not exceed 291 m3/day. No additional fresh water shall be required for Sugar and Co-gen unit. Necessary permission shall be taken from the concerned authority.
- iii. Spent wash shall be treated in Bio-methanation Plant followed by Concentration in MEE & used for bio-composting along with filler material. Effluent from existing as well as expansion of sugar factory & co-gen plant shall be treated in existing ETP. Further, the treated effluent shall be used for gardening in own factory premises as well as industry's farm land. Domestic waste water shall be treated in STP.
- iv. 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 30 days capacity.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
- vi. 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 Bhopal and SPCB.
- vii. Bagasse storage shall be done in such a way that it does not get air borne or fly around due to wind.
- viii. As proposed, Used Oil in MS Barrels will be burnt in boiler with bagasse. Boiler ash will be sent to Brick manufacturing unit/composting. Yeast sludge will be used in Bio composting.
- ix. Fire fighting system shall be as per the 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. DMP shall be implemented.
- x. 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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- xi. 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.
- xii. As proposed, green belt over 4,67,980 m² (33 %) area of the total project area 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.
- xiii. All the commitments made during the Public Hearing/Public Consultation meeting held on 8th November, 2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.
- xiv. 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 at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.

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 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.

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- (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 socioeconomic 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 concerned 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 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

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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.
 - 7.0 The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.
 - 8.0 The Ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
 - 9.0 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.

(Yogendra Pal Singh) Scientist 'D'

Copy to:-

- 1. The Principal Secretary, Forests & Environment Department, Government of Gujarat, Sachivalaya, 8th Floor, Gandhi Nagar 382 010, Gujarat.
- 2. The Chief Conservator of Forests (WCZ), Ministry of Environment & Forests, Regional Office, Ground Floor, East Wing, New Secretariat Building, Civil Line, Nagpur-440001, Maharashtra.
- 3. The Chairman, Central Pollution Control Board Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi 110 032.
- 4. The Chairman, 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 Bhawan, Jor Bagh Road, New Delhi.

6. Guard File/Monitoring File/Record File/Website.

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