

F. No.J-11011/305/2016-IA II (I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
(Impact Assesment Division)

Indira Paryavaran Bhawan  
Jor bagh Road, Delhi - 3  
Dated: 10<sup>th</sup> August, 2017

To,

M/s Shri Datta Sakhar Karkhana,  
Hansalaya Building, 11<sup>th</sup> & 12<sup>th</sup> Floor,  
15, Barakhamba Road,  
New Delhi -1

**Sub: Expansion of Molasses Based Distillery (60 KLPD to 75 KLPD), Sugar Mill (7500 TCD to 9000 TCD) and Co-Generation Power Plant (30 MW to 32 MW) at Village Asurle-Porle, Tehsil Panhala, District Kolhapur (Maharashtra) by M/s Shri Datta Sakhar Karkhana - Environmental Clearance - reg.**

**Ref: Online proposal no. IA/MH/IND2/58477/2016 dated 25<sup>th</sup> April, 2017.**

Sir,

This has reference to your online proposal no. IA/MH/IND2/58477/2016 dated 25<sup>th</sup> April, 2017 along with project documents including Form 1, Terms of References, Pre-feasibility Report and EIA/ EMP report regarding above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for expansion of Molasses Based Distillery (60 KLPD to 75 KLPD), Sugar Mill (7500 TCD to 9000 TCD) and Co-Generation Power Plant (30 MW to 32 MW) at Village Asurle-Porle, Tehsil Panhala, District Kolhapur (Maharashtra) by M/s Shri Datta Sakhar Karkhana (A Unit of Dalmia Bharat Sugar & Industries Ltd).

3. The details of the products presently manufactured and after the proposed expansion are reported to be as under:-

Units	Product	Existing Capacity	Proposed Capacity	Total Capacity after Expansion
Distillery	Ethanol/ RS/ ENA	60 KLPD	15 KLPD	75 KLPD
Sugar Mill	Sugar	7500 TCD	1500 TCD	9000 TCD
Co-generation Power Plant	Power	30 MW	2 MW* (Incidental generation by Incineration Boiler)	32 MW

**\*Note:** There is no proposal to increase power generation capacity. However, only incidental power generation due to spent wash in incineration route as recommended by Honorable Ministry will result into power generation in the tune of 2 MW.

4. Existing land area is 34.9 ha. Expansion will be done in existing plant premises, no additional land will be required. Industry has already developed greenbelt in an area of 33 % i.e. 11.53 ha out of 34.9 ha of total area. The estimated project cost is Rs 60 Crores.



Total capital cost earmarked towards environmental pollution control measures is Rs 5 Crores and the Recurring cost (operation and maintenance) will be about Rs.1 Crore per annum. Total Employment generation will be 800 persons after expansion.

5. It is reported that no National Parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance from the project site. Kasari River and Panchganga River are flowing at a distance of 1 & 5.5 km in South East direction.

6. The existing water requirement is 1250 m<sup>3</sup>/day (during on-season) and 1024 m<sup>3</sup>/day (during off-season) from Kasari river and the same will be suffice for the proposed expansion also. Treated effluent from Sugar Unit & Co-generation Power Plant will be recycled & reused in process, greenbelt development and ferti-irrigation. Molasses based distillery generated spent wash will be concentrated in MEE and burnt in incinerator boiler and process condensate will be treated in Condensate polishing unit and recycled in process itself. Thus, the distillery unit will be based on Zero Liquid discharge system.

Power requirement after expansion will be 12 MW including existing 11 MW and is being/will be met from Co-generation Power Plants. Existing unit has four DG sets of 2 x 1000 KVA, 500 KVA & 125 KVA capacities which will be kept as standby and will be used during grid failure. No additional DG sets are required.

Existing unit has 3 boilers of capacity 120 TPH, 80 TPH (bagasse fired boiler) and 22 TPH (incineration boiler i.e. spent wash fired boiler) which are already installed. No additional boiler will be required for proposed expansion. Electrostatic precipitators with stacks of height 76 m, 70 m & 62 m respectively are already installed for controlling the particulate emissions (within statutory limit of 50 mg/Nm<sup>3</sup>) from boilers of 120, 80 & 22 TPH respectively.

To control boiler emissions (PM, SO<sub>x</sub>) ESPs with adequate stack height have already been installed and will be maintained. The fugitive emissions generated from transportation of material will be controlled by taking various environment friendly measures like water sprinkling on roads, concreting / cementing of roads, covered transportation, regular sweeping etc. Ash handling is being/ will be done in closed loop. Dust collector has been provided at loading and unloading point.

Bagasse generated from sugar mill is being used as fuel for power generation in Co-generation Power Plant. Molasses generated from sugar industry is being used in-house as raw material for distillery. The concentrated spent wash from distillery will be consumed in incinerator boiler along with bagasse/ Coal as supplementary fuel. ETP sludge generated after treating waste water generated in sugar unit is being & will continue to be used as organic manure. Press Mud generated from sugar mill will be given to the farmers. Yeast sludge will be mixed with press mud and will be given to farmers for soil amendment or in house manufacturing organic manure (bio-composting). The ash is being / will be utilized in in-house brick manufacturing facility and balance given to brick manufacturers / cement manufacturing units. Used oil & grease generated from plant machinery/Gear boxes as hazardous waste is being burnt in own boiler as per MPCB guidelines.

7. The project proposal was considered by the Expert Appraisal Committee (Industry-2) in its 13<sup>th</sup> EAC meeting held during 26<sup>th</sup>-27<sup>th</sup> September, 2016 and recommended

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Terms of References (TORs) for the Project. The TOR has been issued by Ministry vide letter dated 21<sup>st</sup> November, 2016.

8. All molasses based distillery and sugar related projects are listed at item 5 (g) & 5 (j) (Distillery & Sugar Industry) of Schedule of Environmental Impact Assessment (EIA) Notification, 2006 under category 'A' and are appraised at Central Level by Expert Appraisal Committee (EAC).

9. The proposal was considered by the Expert Appraisal Committee (Industry-2) in its 25<sup>th</sup> meeting held during 5<sup>th</sup>-7<sup>th</sup> July, 2017. Project Proponent and the accredited consultant M/s J. M. Enviro Net Pvt Ltd, have presented EIA / EMP report as per the TOR. EAC found the EIA / EMP Report to be satisfactory and in consonance with the presented TOR. The Committee has recommended the proposal for grant of environmental clearance.

10. Based on the information submitted by the project proponent and recommendation of EAC (Industry-2), the Ministry of Environment, Forest and Climate change hereby accords environmental clearance to above project under the provisions of EIA Notification, 2006, subject to the compliance of the Specific and General Conditions as below:

**A. Specific Conditions**

- (i) All the conditions of existing Environmental clearance shall be followed.
- (ii) 10 m wide green belt of perennial trees around periphery of the plant shall be provided.
- (iii) Green belt shall be developed in 33 % i.e., 11.53 Ha out of 34.9 Ha of area of the project.
- (iv) No additional fresh water shall be used for proposed expansion.
- (v) No additional steam shall be used for proposed expansion.
- (vi) At least 2.5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) and shall be used only for installation of RO plant for drinking water supply and solar panel in nearby villages. Implementation of such program shall be ensured accordingly in a time bound manner. Following activities shall be under taken under ESC activities:
  - (vii) RO plants shall be installed in nearby villages to ensure safe drinking water availability. The expenditure on maintenance on these RO plants will be owned by the Project proponent.
    - a. 5000 trees/ year shall be planted in nearby villages with the consultation of the villagers. Survival rate of plants shall be reported to RO, MoEF&CC in 6 monthly compliance report.
    - b. A regular environment manager having post graduate qualification in environmental sciences/ environmental engineering shall be appointed for looking after the environmental management activities of the proposed plant.
  - (viii) No effluent shall be discharge outside the plant premises.
  - (ix) Continuous online (24 x7) monitoring shall be installed for flow measurement and measurement of pollutants within the treatment unit. Data shall be uploaded on company's website and provided to the respective RO of MEF&CC, CPCB and SPCB.
  - (x) The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.



- (xi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

## **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 station each 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/EEMP 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.


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- (xiii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila 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, 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.

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

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

13. 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, 2016 and the Public Liability Insurance Act, 1991 along with their amendments and rules.

  
10/8/2017  
(S. K. Srivastava)  
Scientist E

**Copy to:-**

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15th Floor, New Administrative Building, Mantralaya, **Mumbai** - 400 032 (Maharashtra).
2. The Additional Principal Chief Conservator of Forests, Regional Office (WCZ), Ministry of Environment, Forest and Climate Change, **Nagpur** (Maharashtra).
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, **New Delhi** - 32.

4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> and 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, **Mumbai-400 022 (Maharashtra)**.
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhavan, Jor Bagh Road, **New Delhi-3**.
6. Guard File/Monitoring File/Record File.

*SKS*  
*10/8/2017*  
**(S. K. Srivastava)**  
**Scientist E**

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