

**F. No.J-11011/189/2016-IA-II(I)**  
Government of India  
Ministry of Environment, Forest and Climate Change  
(IA-II Section)

Indira Paryavaran Bhawan  
Jor bagh Road, New Delhi - 3  
Dated: 22<sup>nd</sup> February, 2019

To

**M/s Shreenath Mhaskoba Sakhar Karkhana Ltd**  
Shreenathnagar, Village Patethan,  
PO Rahu, Taluka Daund,  
District **Pune** (Maharashtra)

**Sub: Expansion of sugar plant and molasses based distillery by M/s Shreenath Mhaskoba Sakhar Karkhana Ltd at Shreenathnagar, village Patethan, P.O. Rahu, Taluka Daund, District Pune (Maharashtra) - Environmental Clearance - reg.**

Sir,

This has reference to your online proposal no.IA/MH/IND2/81299/2017 dated 9<sup>th</sup> October, 2018 along with the EIA/EMP report containing public hearing proceedings for the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the project for expansion of sugar plant from 2,500 TCD to 6,000 TCD and molasses based distillery from 30 KLPD to 55 KLPD by M/s Shreenath Mhaskoba Sakhar Karkhana Ltd in an area of 139795 sqm (Sugar - 37045 m<sup>2</sup>, Distillery - 102750 m<sup>2</sup>) at Shreenathnagar, Village Patethan, PO Rahu, Taluka Daund, District Pune (Maharashtra).

3. The details of products/by-products are as under :-

S. No	Product	Existing	Proposed	Total
<b>A.</b>	<b>Sugar Plant</b>			
1	White sugar	281.25	393.75	675 TPD
2	Bagasse	712.5	997.5	1710 TPD
3	Molasses	100	140	240 TPD
4	Pressmud	100	140	240 TPD
<b>B.</b>	<b>Distillery</b>			
1	Rectified spirit & impure spirit (5%) or ENA& impure spirit (6%) or Fuel alcohol & impure spirit (5%)	30 KLPD	25 KLPD	55 KLPD
2	Fuel oil	60	50	110 LPD
3	Biogas	9,900	8,290	18,190 m <sup>3</sup> /day
4	Compost	5700	4746.5	10,446.5 TPA

4. Existing land area is 109,819 sqm. Additional land of 29,976 sqm will be required for the proposed expansion. It is proposed to develop greenbelt in an area of 58,000 sqm, covering more than 33% of the project area. The estimated project cost is Rs.5669.1 lakhs. Total capital cost earmarked towards environmental pollution control measures is Rs 403.9 lakhs and the recurring cost (operation and maintenance) will be about Rs.204.05 lakhs per annum.

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5. There are no National parks, Wildlife Sanctuaries, Biosphere Reserves, Tiger/ Elephant Reserves, Wildlife corridors etc within 10 km from the project site. Bhima River flows at a distance of 2.20 km.

6. Total water requirement is 5143 m<sup>3</sup>/day for sugar plant and 752 m<sup>3</sup>/day for distillery, which includes fresh water requirement of 520 m<sup>3</sup>/day (103 m<sup>3</sup>/day for sugar and 417 m<sup>3</sup>/day distillery) proposed to be met from Bhima river. Approval for withdrawal of 0.16 MCM water from the Bhima river has been obtained from the State Water Resource Department vide their letter dated 1<sup>st</sup> October, 2014.

Effluent of 600 m<sup>3</sup>/day (sugar unit) will be treated through activated sludge process and 440 m<sup>3</sup>/day (spentwash from distillery) will be treated through bio-methanation followed by multi-effect evaporation followed by bio-composting. There will be no discharge of treated/untreated waste water from the unit, and thus conforming to Zero Liquid Discharge.

Power requirement after expansion will be 6.5 MW during season (sugar + distillery) and 1.5 MW during off season (distillery & miscellaneous) proposed to be met from in house STG of 10 MW capacity during season and in house STG of 3 MW capacity during off season or State power distribution corporation limited (Maharashtra SPDCL).

Existing unit has 72 TPH & 32 TPH bagasse fired boilers. No additional boiler will be installed as existing boilers are adequate to generate required steam for project. If required, one 8 TPH biogas fired boiler will be used for distillery to meet off season steam requirement. Existing wet scrubber with a stack of height of 65 m will be used to control particulate emissions within the statutory limit of 150mg/Nm<sup>3</sup> for the proposed boilers.

7. Details of solid /hazardous waste generation and its management is as under:-

(a) **Sugar Plant**

S. No.	Waste	Quantity (tons per season)	Disposal
1.	Sugar ETP Sludge	35	Sold to the member farmers/or used on own plot
2.	Ash	3,927	Used as manure/soil enriching material
3	PMC	43,200	Soil conditioner
4.	Oil & Grease	4-5 KL	Use for boiler

(b) **Distillery**

S. No.	Waste	Quantity (TPA)	Disposal
1.	Yeast Sludge	50	Used as manure/soil enriching material
2.	Boiler Ash	157	Sold to the brick manufacturing unit
3.	Sludge from bio-digesters	70-80	
4.	Distillery CPU Sludge	20	Used as manure/soil enriching material
5.	Spent oil from DG set	0.1-0.2 KL	Spent oil will be burnt in boiler

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8. The project/activity is covered under Category A of item 5(g) 'Distilleries' and 5(j) 'Sugar Industry' of the Schedule to the Environment Impact Assessment Notification, 2006 and requires appraisal/approval at Central level in the Ministry.

9. Standard Terms of Reference for the project was issued on 29<sup>th</sup> September, 2017. Public hearing for the project was conducted by the State Pollution Control Board on 2<sup>nd</sup> August, 2018.

10. The proposal for environmental clearance was considered by the EAC (Industry-2) in its meeting held on 29-31 October, 2018. The project proponent and their accredited Consultant M/s Vasantdada Sugar Institute presented the EIA/EMP report as per the ToR. The Committee found the EIA/ EMP Report to be satisfactory, in consonance with the presented ToR and recommended the project for grant of environmental clearance.

11. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), the Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project for **Expansion of Sugar Plant from 2,500 TCD to 6,000 TCD and Molasses based distillery from 30 KLPD to 55 KLPD by M/s Shreenath Mhaskoba Sakhar Karkhana Ltd** at Shreenathnagar, village Patethan, P.O. Rahu, Taluka Daund, District Pune (Maharashtra), under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

(a) Consent to Establish/Operate for the project shall be obtained from the State Pollution Control Board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the Water (Prevention and Control of Pollution) Act, 1974.

(b) As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises.

(c) Necessary authorization required under the Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016, Solid Waste Management Rules, 2016 shall be obtained and the provisions contained in the Rules shall be strictly adhered to.

(d) To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.

(e) Total fresh water requirement shall not exceed 103 m<sup>3</sup>/day for sugar plant and 417 m<sup>3</sup>/day for distillery proposed to be met from Bhima river. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.

(f) Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.

(g) Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.

(h) The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989.

(i) The company shall undertake waste minimization measures as below:-

(i) Metering and control of quantities of active ingredients to minimize waste.



- (ii) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
  - (iii) Use of automated filling to minimize spillage.
  - (iv) Use of Close Feed system into batch reactors.
  - (v) Venting equipment through vapour recovery system.
  - (vi) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (j) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (k) All the commitments made regarding issues raised during the public hearing/consultation meeting shall be satisfactorily implemented.
- (l) At least 1% of the total project cost shall be allocated for Corporate Environment Responsibility (CER) and item-wise details along with time bound action plan shall be prepared and submitted to the Ministry's Regional Office.
- (m) For the DG sets, emission limits and the stack height shall be in conformity with the extant regulations and the CPCB guidelines. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- (n) 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.
- (o) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- (p) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.
- (q) Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (r) Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
- (s) CO<sub>2</sub> generated from the process shall be bottled/made solid ice and sold to authorized vendors.
- (t) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places.

**11.1** The grant of Environmental Clearance is further subject to compliance of other generic conditions as under:-

- (i) The project authorities must strictly adhere to the stipulations made by the state Pollution Control Board (SPCB), State Government and/ or 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 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 complied with.

(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 to recharge ground water, and to utilize the same for different industrial operations within the plant.

(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 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 shall be implemented.

(ix) The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.

(x) A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.

(xi) 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.

(xii) 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.




(xiii) 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.

(xiv) 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.

(xv) 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.


12. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

13. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Water Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Trans-boundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991, read with subsequent amendments therein.

  
22/2/2019  
(S. K. Srivastava)  
Scientist E

**Copy to: -**

1. The Principal Secretary, Environment Department, Government of Maharashtra, 15<sup>th</sup> Floor, New Administrative Building, Mantralaya, **Mumbai** - 32
2. The Additional PCCF, Ministry of Environment, Forest and Climate Change, Regional Office (WCZ), Ground Floor, East Wing, New Secretariat Building, Civil Lines, **Nagpur** - 1
3. The Member Secretary, Central Pollution Control Board Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, **Delhi** - 32
4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3<sup>rd</sup> & 4<sup>th</sup> floor, Opp. Cine Planet, Sion Circle, **Mumbai** - 22
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, **New Delhi** - 3
6. Guard File/Monitoring File/Record File

  
22/2/2019  
(S. K. Srivastava)  
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