



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

To,

The Chief Executive Officer  
SHREENATH MHASKOBA SAKHAR KARKHANA LTD  
Shreenath Mhaskoba Sakhar Karkhana Ltd  
Shreenathnagar patethan post Rahu Taluka Daund Pune  
District,,Pune,Maharashtra-412207

**Subject:** Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the Ministry vide proposal number IA/MH/IND2/279125/2022 dated 16 Jul 2022. The particulars of the environmental clearance granted to the project are as below.

- |  |   |
|--|---|
| 1. EC Identification No.                   | EC22A022MH142118  |
| 2. File No.                                | J-11011/189/2016-IA-II(I)   |
| 3. Project Type                            | Expansion7  |
| 4. Category                                | A   |
| 5. Project/Activity including Schedule No. | 5(g) Distilleries   |
| 6. Name of Project                         | Expansion of Molasses or Sugar syrup or Sugarcane juice based distillery from 80 KLPD to 200 KLPD |
| 7. Name of Company/Organization            | SHREENATH MHASKOBA SAKHAR KARKHANA LTD  |
| 8. Location of Project                     | Maharashtra   |
| 9. TOR Date                                | N/A   |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 31/08/2022

(e-signed)  
A N Singh  
Scientist E  
IA - (Industrial Projects - 2 sector)

*Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.*

*This is a computer generated cover page.*

**PARIVESH**

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and Virtuous Environment Single-Window Hub)



This has reference to your online proposal no.IA/MH/IND2/279125/2022, dated 16<sup>th</sup>July, 2022 for environmental clearance to the above mentioned project.

**2.** The Ministry of Environment, Forest and Climate Change has examined the the proposal seeking environmental clearance for expansion of distillery unit from 80 KLPD to 200 KLPD located at Village Shreenathnagar, Patethan, Post-Rahu, Tehsil Daund, District Pune, State Maharashtra by M/s. Shreenath Mhaskoba Sakhar Karkhana Ltd.

**3.** As per EIA Notification 2006 (Schedule 5 (g) Category A); however, as per in the MoEFCC Notification S.O. 345(E), dated the 17<sup>th</sup> January, 2019, notification number S.O. 750(E), dated the 17<sup>th</sup> February, 2020, S.O. 980 (E) dated 02<sup>nd</sup> March, 2021 & S. No. 2339(E) 16<sup>th</sup> June, 2021, a special provision in the EIA Notification, 2006 "Expansion of sugar manufacturing units or distilleries for production of ethanol, having Prior Environment Clearance (EC) for existing unit, to be used completely for Ethanol Blended Petrol (EBP) Programme only, as per self-certification in form of an affidavit by the Project Proponent, shall be appraised as category 'B2' projects.

**4. The details of products and capacity as under:**

<b>S. No.</b>	<b>Name of unit</b>	<b>Name of the product/by-product</b>	<b>Existing Product ion capacity</b>	<b>Additional product ion capacity</b>	<b>Total product ion capacity</b>
1	Distillery (Molasses or Sugar syrup or Sugarcane juice)	Ethanol	80 KLPD	120 KLPD	200 KLPD
2	Fermentation unit	Carbon dioxide	62 TPD	94 TPD	156 TPD
3	Dryer (ATFD/spray dryer)	Conc. spent wash powder	NA	73.4 TPD	73.4 TPD

**5.** Ministry has issued Environmental Clearance to the existing Industry for a capacity of 55 KLPD vide File No. J-11011/189/2016-IA-II (I) dated 22.02.2019 and expansion under NIPL from 55 KLPD to 80 KLPD [PARIVESH portal application No.: IA/MH/IND2/81299/ 2017 (SW/1509/2021) Consent No. : Format 1.0/CAC/UAN No. MPCB-CONSENT-0000121173/CO / 2203001262 Date: 24.03.2022]. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEFCC, Nagpur vide File no. EC-992/RON/2019-NGP/9303 dated 15.03.2022. Action Taken Report has been submitted to IRO, MOEFCC, Nagpur dated 04.03.2022 for partial compliances and non- compliances. EAC found the action taken report to be satisfactory.

**6.** Standard ToR and public Hearing is not applicable as the project falls under

category B2 as per Notification S.O. 2339(E), dated 16<sup>th</sup> June, 2021. It was informed that no litigation is pending against the project.

**7.** Total plant area after expansion will be 12.72 Ha. No additional land will be acquired for the expansion project as the same will be done within existing plant premises. Out of the total plant area 4.2 Hectares i.e. 33% of the total plant area has already been developed as greenbelt & plantation and the same will be maintained. The estimated project cost is Rs. 149 Crores. Capital cost of EMP would be Rs. 45.22 Crores and recurring cost for EMP would be Rs. 2.43 Crores per annum. Industry proposes to allocate Rs. 2.43 Crores towards extended EMP (Corporate Environment Responsibility). Total Employment after expansion will be 66 persons as direct & indirect.

**8.** PP reported that there are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance. Reserve forests Near village Patethan is located at a distance of 2.5 km in North-West direction. River Bhima is flowing at a distance of 2.3 Km in North-west direction and River Mula-Mutha is flowing at a distance of 8.0 Km in South-East direction.

**9.** AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.2  $\mu\text{g}/\text{m}^3$  and 0.258  $\mu\text{g}/\text{m}^3$  with respect to PM and  $\text{SO}_2$ . The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

**10.** Total fresh water requirement after expansion will be 828  $\text{m}^3/\text{day}$ , which will be met from River Bhima. NOC has been obtained by irrigation department vide letter no. PID/admin-1/NI/8583 dated 22.12.2014. Existing effluent generation is 451  $\text{m}^3/\text{day}$  from distillery which is treated through Condensate Polishing Unit of capacity in 500  $\text{m}^3/\text{day}$ . Total effluent generation will be 1576  $\text{m}^3/\text{day}$  from distillery including existing and proposed expansion, which will be treated through upgraded Condensate Polishing Unit of capacity in 1600  $\text{m}^3/\text{day}$ . In molasses based operation, spent wash generated from the analyser column during distillation will be treated in bio-methanation unit and concentrated in Multi Effect Evaporator and concentrated spent wash will be converted into powder form by spray dryer (ATFD) technology, which will be sold to farmers or fertilizer manufacturer in packed form. Domestic waste water will be treated through sewage treatment plant. The plant will be based on Zero Liquid discharge system and treated effluent will not be discharged outside the factory premises.

**11.** Total power requirement of distillery after expansion will be 3.5 MW which will be sourced from existing 4 MW co-generation power plant in sugar mill. Existing sugar mill has 32 TPH bagasse fired boiler, which will be upgraded to 40 TPH capacity. ESP with a stack of height of 65 m is installed with the existing boiler for controlling the particulate emissions within the statutory limit of 50  $\text{mg}/\text{Nm}^3$  and same will be used after expansion. Industry has 750 KVA DG set installed in sugar unit which will be used as standby arrangement during power failure and stack height (5m above the roof top of nearby tallest building) will be provided as per CPCB norms to the proposed DG sets.

## **12. Details of process emissions generation and its management:**

- ESP with a stack of height of 65 m is installed with the existing boiler for controlling the particulate emissions within the statutory limit of 50 mg/Nm<sup>3</sup> same will be continued after expansion.
- Online Continuous Emission Monitoring System is installed with the stack and data is transmitted to CPCB/SPCB servers.
- CO<sub>2</sub>(156TPD)generatedduringthefermentationprocessisbeing/willbe collectedbyutilizingCO<sub>2</sub>scrubbersandsoldtoauthorizedvendors/collectedininstall edbottling plant.
- Biogas (36400 m<sup>3</sup>/day) will be generated during treatment of spent wash in bio-methanation unit being converted into CBG (Compressed-biogas), existing CBG plant will be upgraded for proposed expansion.

## **13. Details of Solid waste/Hazardous waste generation and its management:**

- Concentrated spent wash (124.4 m<sup>3</sup>/day) is being/will be converted to powder by ATFD or spray dryer to be used as manure.
- Boiler ash (7.86 TPD) is being/will be given to farmers to be used as manure.
- CPU and fermenter sludge (0.3 TPD) is being/will be used as manure.

**14.** As per Notification S.O 2339(E), dated 16th June, 2021, PP has submitted self- certification in the form of notarized affidavit declaring that the proposed expansion capacity of 120 KLPD will be used for manufacturing fuel ethanol only.

**15.** EAC also discussed the following issues during its meeting held during 27<sup>th</sup> - 28<sup>th</sup> July, 2022:

- Action taken report shall be complied within 3 months.
- Bio-composting shall be phased out within 2 years as committed by PP.
- Fresh water consumption shall not exceed 4 KL/KL of ethanol production.
- PP is operating wet scrubber as air pollution control device for boiler. The Committee noted that the same is highly in efficient method to control particulate emission from the boiler. Therefore, it was advised to upgrade air pollution control device by replacing the existing wet scrubber with ESP to achieve 50 mg/Nm<sup>3</sup> particulate emissions.
- Install STP and no septic tank to be used for treatment of domestic waste water.
- 10% power requirement shall be sourced from renewable energy. PP has committed the same.
- Surface water permission has expired. PP shall submit renewal application for surface water withdrawal.

- CER budget shall be clearly specified along with villages and activities to be included. Main activities to be school upgradation and installation of solar power appliances.
- Coal shall not be used as fuel.

The committee was satisfied with the response provided by PP on above information.

**16.** The proposal was considered by the EAC (Meeting ID: IA/IND2/13295/27/07/2022) and meeting was held on 27<sup>th</sup> -28<sup>th</sup> July, 2022 in the Ministry, wherein the project proponent and their environmental consultant namely M/s. Vasantada Sugar Institute, Pune, presented the case under B2 category. The Committee **recommended** the project for grant of environmental clearance.

**17.** The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/ misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

**18.** The Committee noted that the EMP report is in compliance of the PFR. The Committee deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC have found the proposal in order and have **recommended** for grant of environmental clearance.

**19.** The environmental clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its amendments. It does not tantamount/construe to approvals/consent/ permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The project proponent shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

**20.** Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords environmental clearance to the project namely expansion of existing distillery unit from 80 KLPD to 200 KLPD located at Village Shreenathnagar, Patethan, Post-Rahu, Tehsil Daund, District Pune, State

Maharashtra by M/s. Shreenath Mhaskoba Sakhar Karkhana Ltd, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions as under:-

**A. Specific Condition:**

- (i). As per the Notification S.O. 2339(E), dated 16<sup>th</sup> June, 2021, project falls in category B2 and the proposed expansion of 120 KLPD shall only be used for fuel ethanol manufacturing as per self-certification in form of a notarized affidavit by the Project Proponent. Provided that subsequently if it is found that the ethanol, produced based on the EC granted as per this dispensation, is not being used completely for EBP Programme, or if ethanol is not being produced, or if the said distillery is not fulfilling the requirements based on which the project has been appraised as category B2 project, the EC shall stand cancelled.
- (ii). Action taken report as submitted to IRO, MOEFCC for partial/non-compliances shall be complied within three (03) months as committed by PP.
- (iii). 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, and risk mitigation measures relating to the project shall be implemented.
- (iv). The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises. STP shall be installed to treat sewage generated from factory premises.
- (v). EC granted for a project on the basis of the submitted documents shall become invalid in case the actual land for the project site turns out to be different from the land considered at the time of appraisal of project. Conversion of land use (CLU) certificate shall be obtained before start of construction activities.
- (vi). Total Fresh water requirement shall not exceed 4.0 KL/KL of ethanol production which will be met from River Bhima. No ground water abstraction is permitted. No ground water recharge shall be permitted within the premises. Industry shall construct a storage pond of 60 days capacity and the accumulated water to be used as fresh water thereby reducing fresh water consumption.
- (vii). The spent wash shall be concentrated and subject to ATFD to form powder. Bio-composting shall be phased out within 2 years as committed. PP while enhancing the boiler capacity from 32 TPH to 40 TPH shall upgrade air pollution control device by replacing the existing wet scrubber with ESP (99.9 % efficiency) to achieve 50 mg/Nm<sup>3</sup> particulate emissions. Boiler ash is being/will be given to farmers to be used as manure. PP shall use biomass like

rice husk/bagasse as fuel for the proposed boiler. PP shall meet 10% of the total power requirement from solar power by generating power inside plant premises/adjacent/nearby areas. Coal shall not be used as permitted fuel.

- (viii). CO<sub>2</sub> generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.
- (ix). PP shall allocate at least Rs. 50 Lakhs/annum for Occupational Health Safety. Occupational Health Centre for surveillance of the worker's health shall be set up. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
- (x). Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
- (xi). The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms. PESO certificate shall be obtained.
- (xii). Process organic residue and spent carbon, if any, shall be sent to Cement and other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xiii). The company shall undertake waste minimization measures as below (a) Metering and control of quantities of active ingredients to minimize waste; (b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. (c) Use of automated filling to minimize spillage. (d) Use of Close Feed system into batch reactors. (e) Venting equipment through vapour recovery system. (f) Use of high pressure hoses for equipment clearing to reduce wastewater generation.
- (xiv). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area with tree density@ 2500 trees per hectares, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. Greenbelt shall be developed before commissioning of the plant.
- (xv). PP proposed to allocate Rs. 2.43 Crores towards Extended EMP (CER) which shall be spent as submitted in CER plan for monitorable activities like up-gradation of schools with provision of facilities e.g. Class rooms, playground, Laboratory, Library, Computer class, toilets, Drinking Water Facilities, solar light/solar power support for uninterrupted power supply etc. Further, all the proposed activities under CER shall be completed before the commissioning of the plant in consultation with District Administration.

- (xvi). 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. Out of the total project area, 15% shall be allotted solely for parking purposes with facilities like rest rooms etc. Village road shall be maintained and proper safety shall be ensured by installation of proper road safety measures.
- (xvii). Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Biomass shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. Industrial vacuum cleaner shall be provided to sweep the internal roads. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
- (xviii). 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.
- (xix). A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions. EMC head shall report directly to Head of Organization/ Managing Director/CEO as per company hierarchy.
- (xx). PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12<sup>th</sup> August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.

**B. General Condition:**

- (i) No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the



adequacy of conditions imposed and to add additional environmental protection measures required, if any.

- (ii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
- (iii) 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 the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
- (iv) The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
- (v) 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.
- (vi) 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.
- (vii) 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.
- (viii) 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.
- (ix) 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 and at <https://parivesh.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.

- (x) 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.
- (xi) This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.

**21.** 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.

**22.** Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

**23.** Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

**24.** 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 Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991 read with subsequent amendments therein.

**25.** This issues with the approval of the competent authority.

**(A. N. Singh)**  
**Scientist-'E'**

**Copy to: -**

1. The Secretary, Department of Environment, Government of Maharashtra, Mumbai 400 032
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Ground Floor, East Wing, New Secretariat

- Building, Civil Lines, Nagpur- 440001 Maharashtra
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, Delhi -32
  4. The Member Secretary, Maharashtra Pollution Control Board, Kalpataru Point, 3rd and 4th 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
  6. The District Collector, Pune District, Maharashtra
  7. Guard File/Monitoring File/Parivesh portal/Record File

**(A. N. Singh)**  
**Scientist-'E'**

**E-mail: [aditya.narayan@nic.in](mailto:aditya.narayan@nic.in)**  
**Tel. No. 11-24642176**