



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

To,

The Chairman and Managing Director
NATURAL SUGAR AND ALLIED INDUSTRIES LTD
Natural Sugar and Allied Industries Ltd., Osmanabad, Maharashtra-413528

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/IND2/223246/2021 dated 19 Aug 2021. The particulars of the environmental clearance granted to the project are as below.

- EC Identification No.** EC21A022MH179176
- File No.** IA-J-11011/35/2021-IA-II(I)
- Project Type** Expansion7
- Category** A
- Project/Activity including Schedule No.** 5(g) Distilleries
- Name of Project** Expansion of 60 KLPD Molasses Based Distillery to 150 KLPD B & C Molasses/Cane Syrup based distillery located at Sainagar, Village Ranjani, Tal. Kallam, Dist. Osmanabad, Maharashtra. by Natural Sugar and Allied Industries Ltd. (NSAIL)
- Name of Company/Organization** NATURAL SUGAR AND ALLIED INDUSTRIES LTD
- Location of Project** Maharashtra
- TOR Date** N/A

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

Date: 23/11/2021

(e-signed)
A.K Pateshwary
Director
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.

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This has reference to your online proposal no. IA/MH/IND2/223246/2021, dated 19th August, 2021 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the Expansion of 60 KLPD Molasses Based Distillery to 150 KLPD B & C Molasses/Cane Syrup based distillery by M/s. Natural Sugar and Allied Industries Ltd. (NSAIL) located at Sainagar, Village Ranjani, Tal. Kallam, Dist. Osmanabad, Maharashtra.

3. The project/activities are covered under category A of item 5 (g) 'Distilleries' of the Schedule to the EIA, 2006 and requires appraisal at central level by the sectoral Expert Appraisal Committee (EAC). The proposal has been submitted under the Ministry's EIA Notification, 2006 amendments vide Notification no. S.O. 345(E) dated 17th January 2019 & extension of notification S.O. 750(E) dated 17th February 2020, S.O 980(E) dated 2nd March, 2021. Accordingly, the proposal has been appraised as category 'B2' project.

4. The project proposal is exempted from obtaining ToR & conducting Public Hearing as per EIA notification, 2006 amendment vide S.O 980(E) dated 2nd March, 2021. It was informed that litigation is pending against the project. A court case is pending against distillery for violation (for Capacity 30-60 KLPD) in Osmanabad district court vide No. 300168/2015 dated 08.04.2015.

5. SEIAA, Maharashtra has issued EC earlier vide letter No.SIA/MH/IND2/50667/2006 dated 31st March, 2020 to the existing 60 KLPD Molasses based Distillery in favour of M/s. Natural Sugar and Allied Industries Ltd. (NSAIL).

6. The details of products and capacity are as under: -

Industrial Unit	Product	Quantity		
		Existing-	Expansion-	Total After Expansion
Distillery Unit	Rectified Spirit (RS)/ ENA	60	--	60
	Ethanol (C- Heavy)	60	90	150
	Ethanol (B-Heavy)	--	150	150
	Ethanol (Cane Syrup)	--	150	150
	Fusel Oil	2.4	3.6	6

7. Total plot land area is 5,16,006 M². Existing built-up area 92,960 M²; additional built-up for proposed project will be 5400 M². Industry has already developed green belt 2,67,093 M² (51.7% out of total plot area). Densification of existing Green belt will be done under expansion activity. The estimated project cost is Rs.129.58 Crores including existing investment of Rs.69.58 Crores. The distillery will be operated for 330 days. Total capital cost earmarked towards

environmental pollution control measures under proposed project will be Rs.5.3 Crores and the Recurring cost (operation and maintenance) will be about Rs.0.65 Crores per annum. Total Employment will be 170 persons as direct & indirect after proposed project. Industry proposes to allocate Rs.60 Lakh @ of 1 % towards Corporate Social Responsibility.

8. There are no national parks, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 Km Study Area. Manjara River is flowing at a distance 4 Km from East to west.

9. Total water requirement after proposed project will be 2400 CMD. Out of which 442 CMD will be fresh water taken from Manjara river. The process effluent generated after expansion of 150 KLPD Molasses/Cane Syrup based Distillery would be in the form of raw spentwash to the tune of 1200 M³/D. The same would be forwarded for Bio-methanation and concentrate in MEE, conc. spentwash to the tune of 160 M³/D (1.06 KL/KL of alcohol) would be blended with coal/bagasse and burnt in existing 20 TPH incineration boiler. Other effluents viz. spent lees @ 202 M³/D, MEE condensate @ 1040 M³/D and allied effluents @ 75 M³/D will be treated in CPU under Distillery. Treated effluent from CPU will be reused in process and boiler makeup, thereby achieving Zero Liquid Discharge (ZLD) for Distillery.

10. Power requirement for proposed project will be 2200 KW which will be met from own Co-Gen Plant. Existing 285 KVA DG Set, which will be operated only during failure. No additional DG set will be installed under expansion activity. Existing distillery has 20 TPH Incineration boiler. ESP with a stack of height of 60 M is installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm³ for the boiler.

11. Details of process emissions generation and its management:

The CO₂ generation shall take place in fermenters of the distillery. CO₂ to the tune of 124 MT/Day shall be released from 150 KLPD distillery plant. CO₂ under existing unit is being compressed, bottled and supplied to manufacturers of beverages. The same practice shall be followed after distillery expansion.

12. Details of Solid waste/Hazardous waste generation and its management:

No.	Industrial Unit	Type	Quantity (MT/M)		Disposal
			Existing	After Expansion	
1	Distillery	Boiler Ash	360	1140	Supply to brick manufacturing
		Yeast Sludge	360	960	Burnt in Incineration Boiler
		CPU Sludge	17	40	Used as Manure

13. Visit of IRO, MoEFCC, Nagpur was conducted on 14.06.2021 and issued certified compliance report for the project vide File No. 5-40/2013(Env)/8198 dated 29.06.2021.

14. As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed capacity of 90 KLPD will be for manufacturing of fuel ethanol only.

15. During deliberations PP has stated that a court case is pending against distillery for violation (for Capacity 30-60 KLPD) in Osmanabad district court vide No. 300168/2015 dated 08.04.2015. Further, PP has also submitted Bank Guarantee for violation in previous EC to Maharashtra Pollution Control Board. EAC was satisfied of the reply by PP and suggested that PP shall submit NOC from MPCB to the Ministry.

16. After deliberations, EAC directed that PP shall construct a brick making plant within the industry which shall utilize spent wash and coal ash after combustion in incineration boiler for making bricks. Further, EAC suggested that PP shall utilize funds allocated for RS. 1.0 Crore towards CER for providing drinking water facilities and for installing solar street lights within nearby villages. PP shall install minimum 0.5 MW Solar Generation Plant in factory premises. PP agreed for the same and submitted an undertaking in the compliance of the above.

PP has submitted the desired information as sought above and EAC found it to be in order and recommended the proposal for grant of EC.

17. The proposal was considered by the EAC in its 42th meeting held on 20th-22nd October, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Equinox Environments (I) Pvt. Ltd., presented the case under B2 category. The Committee **recommended** the project for grant of environmental clearance.

18. 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.

19. 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 Committee has found the additional information submitted by the project proponent to be satisfactory and addressing the issues raised by the Committee. 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.

20. 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.

21. 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 for **Expansion of 60 KLPD Molasses Based Distillery to 150 KLPD B & C Molasses/Cane Syrup based distillery by M/s. Natural Sugar and Allied Industries Ltd. (NSAIL) located at Sainagar, Village Ranjani, Tal. Kallam, Dist. Osmanabad, Maharashtra**, 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 OM dated 16th June, 2021, project falls in category B2 and the proposed additional capacity of 90 KLPD shall be only be used for fuel ethanol manufacturing as per self-certification in form of an 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). 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.
- (iii). The project proponent will treat and reuse the treated water within the integrated industry and no waste or treated water shall be discharged outside the premises.
- (iv). Total fresh water requirement for the industry shall not exceed 442 CMD and it will be met from Manjara River. No ground water recharge shall be

permitted within the premises. Rainwater shall be collected in storage ponds and utilized for plant activities. Ground water monitoring shall be done regularly and report is to be submitted to concerned authorities regularly.

- (v). Raw spent wash will be sent for Bio-Methanation and concentrate in MEE. Concentrated spent wash will be burnt in incineration boiler. PP shall install brick manufacturing plant within factory for utilization of ash obtained from combustion for manufacturing bricks.
- (vi). CO₂ generated from the process shall be bottled/made solid ice and utilized/sold to authorized vendors.
- (vii). 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.
- (viii). 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.
- (ix). 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.
- (x). Process organic residue and spent carbon, if any, shall be sent to Cement or other suitable industries for its incinerations. ETP sludge, process inorganic & evaporation salt shall be disposed of to the TSDF.
- (xi). 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.
- (xii). The green belt of at least 5-10 m width shall be developed in nearly 33% of the total project area, mainly along the plant periphery. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department. Records of tree canopy shall be monitored through remote sensing map.
- (xiii). As committed PP shall spend Rs. 1.0 Crore for providing drinking water facilities and for installing solar street lights within nearby villages.
- (xiv). There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products as per CPCB norms and no parking to be allowed outside on public places.

- (xv). Storage of raw materials shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
- (xvi). 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.
- (xvii). 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.

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 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&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.

22. 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.

23. 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.

24. 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.

25. 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.

26. This issues with the approval of the competent authority.

(Ashok Kr. Pateshwary)
Director

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, District Osmanabad, Maharashtra
7. Guard File/Monitoring File/Parivesh portal/Record File

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