



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

To,

The Satish Sugars Limited
SATISH SUGARS LIMITED
Satish Sugars Limited Hunshyal Village Gokak taluk Belagavi
District,,Belgaum,Karnataka-591224

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/KA/IND2/220067/2012 dated 21 Aug 2021. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC21A022KA110606 |
| 2. File No. | J-11011/341/2012-IA.II(I) |
| 3. Project Type | Expansion |
| 4. Category | A |
| 5. Project/Activity including Schedule No. | 5(g) Distilleries |
| 6. Name of Project | Expansion of the Existing Distillery from 90 KLPD to dual feed 300 KLPD under EBP Scheme at Sangankeri Yadwad Road, Hunshyal P.G., Gokak Taluk, Belgaum District, Karnataka State. Pin: 591 224 by M/s |
| 7. Name of Company/Organization | SATISH SUGARS LIMITED |
| 8. Location of Project | Karnataka |
| 9. TOR Date | 30 Apr 2013 |

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

Date: 26/10/2021

(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/KA/IND2/220067/2012, dated 21st August, 2021 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the project for Expansion of the Existing Distillery from 90 KLPD to dual feed 300 KLPD under EBP Scheme by M/s. Satish Sugars Limited (SSL) located at Sangankeri Yadwad Road, Hunshyal P.G., Gokak Taluk, Belgaum District, Karnataka.

3. All Distillery projects are listed at S. No. 5 (g) of Schedule of Environment Impact Assessment (EIA) and as per as per the EIA Notification 2006 and amendment vide Notification S.O 2339(E) dated 16.06.2021 the proposal is to be appraised as B2 category and appraised at Central Level by Expert Appraisal Committee (EAC) with condition that the project proponent shall file a notarized affidavit that ethanol produced from proposed project shall be used completely for EBP Programme.

4. Standard ToR and public Hearing conduction is not applicable as the project falls under category B2 as per OM dated 2nd March, 2021 & 16th June, 2021. It was informed that no litigation is pending against the project.

5. Ministry had issued EC earlier vide letter no F. No. J-11011/341/2012-IA II(I) dated 07.07.2021 to the existing Molasses based distillery unit capacity from 60 to 120 KLPD, the industry is proposed to expand the Distillery from 90 KLPD (though EC obtained for 120 KLPD, installed capacity is 90KLPD) to 300 KLPD under EBP programme of MOEF&CC as B2 Category Project in favour of M/s. Satish Sugars Limited (SSL).

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

S. No	Product Details	Existing Quantity	Proposed Quantity	Total Quantity
1	Production details existing and proposed	90 KLD from "B" Heavy Molasses	210 KLD 210 KLD for 120 days from Cane Syrup. 210 KLD for 210 days from Grains Total 330 Days	300 KLD

7. Existing land area is 159.30 Acres, out of which 7 acres 6 guntas is earmarked for Distillery for expansion activity. Industry has already developed / will develop greenbelt in an area of 33 % i.e., 52 acres out of total area of the project. The total investment for the existing project is Rs 691. 96 Crores which is inclusive of Rs 83.70 Crores estimated cost for expansion. Total capital cost earmarked towards environmental pollution control measures is Rs 35.68 lakhs and the Recurring cost (operation and maintenance) will be about Rs 27.05 lakhs per annum. Total Employment will

be 200 persons as direct & 35 persons indirect after expansion. Industry proposes to allocate Rs 40,00,000/- @ of 2.5% towards Corporate Social Responsibility.

8. There is Ghataprabha bird sanctuary located at a distance of 8.42 Km from Eco Sensitive Zone boundary and 8.83 Km from Sanctuary boundary. Ghataprabha River is flowing from West to East with respect to Project Site & is at a distance of 3.45 kms in south direction to the project site & Hire Halla is located at 0.81 kms in East.

9. Ambient air quality monitoring was carried out at 5 locations during November, 2020 to March, 2021 and the baseline data indicates the ranges of concentrations as: PM₁₀ (72- 76.7µg/m³), PM_{2.5} (20-28.3 µg/m³), SO₂ (3.87-5.01µg/m³) and NO₂ (14.21-17.79 µg/m³). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.38 µg/m³, 0.11µg/m³ and 0.17 µg/m³ with respect to PM₁₀, SO_x and NO_x. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

10. Total water requirement is 2245 m³/day of which fresh water requirement of 1288 m³/day will be met from Ghataprabha River. Effluent quantity of 1700 m³/day will be treated through (02 Nos. of ETP having 850 KLD capacity each) and Condensate polishing unit of 1250 KLD will be implemented to treat the spent lees, cooling tower and boiler blow down. Achieve Zero Liquid Discharge (ZLD) at distillery unit by adopting evaporation, concentration and incineration.

11. Power requirement after expansion will be met from 110 TPD bagasse fired boilers of capacities 60 TPH, 90 TPH & 130 TPH. Along with this existing DG Sets of 650 kVA & 1000 kVA at Sugar & Co-gen unit & 250 kVA DG set at Distillery unit will be used as backup power only during power failure. Stack (height 30m AGL) has been provided as per CPCB norms to all DG sets. ESP and wet scrubbers with a stack of height of 80 m AGL will be used for controlling the particulate emissions within the statutory limit of 150 mg/Nm³ for the proposed boilers.

12. Details of process emissions generation and its management:

SI. No.	Parameter	Unit	Boiler 130 TPH	Boiler 60 TPH + 90 TPH
1	Stack Height	m	80	32 m + 80 m
2	Stack Diameter	m	4.2	3.5
3	Stack gas temperature	°C	137	139
4	Stack exit gas velocity	m/s	7.82	7.55
5	Fuel Type	-	Bagasse	Bagasse
6	Concentration	g/sec		
	PM	g/sec	4.1	2.25

	SO ₂	g/sec	0.87	0.71
	NO ₂	g/sec	1.33	0.98
7	APCE	-	ESP	Wet scrubber + ESP

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

Sl. No.	Solid waste	Quantity TPD	Method of collection	Mitigation measures	
				Method of Storage	Mode of disposal
Solid waste					
1	Bagasse	4500	Mechanical conveyor	Bagasse storage yard	Sent to cogeneration unit to use as fuel as boiler
2	Boiler-Ash from co-gen unit	28	Mechanical conveyor into common silo for further disposal	Storage yard	Disposed to farmers to use as soil conditioning
3	Press mud	600	Mechanical conveyor into common silo for further disposal	Storage yard	
4	ETP Sludge	3.0	Sludge drying beds	Storage yard	Used as manure for greenbelt development
5	Domestic solid waste	0.065	Collection bins	Handed over to nearby Gram Panchayat.	Nearby municipal agencies & recyclers.
Distillery					
1	Yeast Sludge	12	Mechanical conveyor	Storage yard	Dried and sold as cattle feed
Hazardous waste					
1	Used oil from DG sets	200lts	Stored in leak proof sealed barrels	Hazardous waste storage area	Used as lubricants within the industry and excess disposed to KSPCB approved recyclers

14. Certified compliance report submitted by Deputy Director of MoEF&CC, Regional Office, Bangalore with respect to the earlier EC conditions indicate that the Status of compliance is 'Satisfactory' vide letter No. EP/12.1/505/KER & EP/12.1/2019-2020/7/KAR /437 dated 18th August, 2021.

15. As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed capacity from 90 KLPD to 300 KLPD will be for manufacturing of fuel ethanol only.

16. During presentation PP has stated that Ghataprabha Bird Sanctuary notified S.O. 2029(E) vide dated 27th June, 2017. The Eco-sensitive Zone lies between the North Latitudes N 16° 10'29.22 to 16° 10'26.62 and East longitudes between E 74° 48'49.32' E to 74° 48'44.62 and North Latitudes N 16° 11'11.36 N to 16° 11'06.88 and East longitudes between E 74° 41'28.08 to 74° 41'33.15 and spread over an geographical area of 22.66 square kilometers with an extent of 300 meters all around the boundary of Ghataprabha Bird Sanctuary. Accordingly, EAC noted that the proposed project shall not attract NBWL clearance.

17. Further, EAC found the CER proposed is low. Therefore, EAC directed that PP shall allocate Rs. 2.0 crores for CER and it shall solely be used for installation and maintenance of solar lights for the villagers. PP agreed for the above.

18. The proposal was considered by the EAC in its 40th meeting held on 14th - 16th September, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Environmental Health and Safety Consultants Private Limited, presented the case under B2 category. The Committee **recommended** the project for grant of environmental clearance.

19. 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.

20. 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.

21. 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.

22. 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 the Existing Distillery from 90 KLPD to dual feed 300 KLPD under EBP Scheme by M/s. Satish Sugars Limited (SSL) located at Sangankeri Yadwad Road, Hunshyal P.G., Gokak Taluk, Belgaum District, Karnataka,** 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 capacity from 90 KLPD to 300 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 factory and no waste or treated water shall be discharged outside the premises.
- (iv). Total fresh water requirement shall not exceed 1288 m³/day and will be sourced from Ghataprabha River. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard, and renewed from time to time.
- (v). The spent wash/other concentrates shall be treated by concentration followed by incineration. Bio-composting of any form shall not be allowed.

- (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 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). PP shall allocate Rs. 2.0 crores for CER and it shall solely be used for installation and maintenance of solar lights for the villagers.
- (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.

23. 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.

24. 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.

25. 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.

26. 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.

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

(Ashok Kr. Pateshwary)
Director

Copy to: -

1. The Secretary, Department of Forest, Environment & Ecology, Government of Karnataka, Room No. 708, Gate 2, Multi Storey Building, Dr. Ambedkar Veedhi, Bangalore - 1
2. The Regional Officer, Ministry of Env., Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 34
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex East Arjun Nagar, Delhi - 32
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, #49, 4th& 5th Floor, Church Street, Bangalore -1
5. Monitoring Cell, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi
6. The District Collector, District Belgaum, Karnataka
7. Guard File/Monitoring File/Parivesh portal/Record File

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