



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

To,

The Whole Time Director
M/S. NSL SUGARS LIMITED

Survey No. 60 to 62 , 88 to 98 and 100 to 105 of Chikkonahalli village of Thaggahalli gram panchayath and survey No. 55, 78 to 83 and 86 of Huragalwadi village of Koppa gram panchayat, Maddur taluk, Mandya district, Mandya, Karnataka-571425

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/IND2/242442/2021 dated 02 Feb 2022. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC22A022KA110935
2. File No.	J-11011/94/2015-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 sugar plant and distillery to produce Ethanol under the EBP by M/s. NSL Sugars Limited
7. Name of Company/Organization	M/S. NSL SUGARS LIMITED
8. Location of Project	Karnataka
9. TOR Date	N/A

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

Date: 14/03/2022

(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/IND2/242442/2021, dated 02nd February, 2022 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the Proposed Expansion of sugar plant and distillery of crushing capacity from 5000 TCD to 10,000 TCD and Distillery to enhance production of Ethanol from 60 KLPD to 200 KLPD under the EBP by M/s. NSL Sugars Limited located at Chikkonahalli – Village of Thaggahalli Gram Panchayat and Huragalwadi – Village of Koppa Gram Panchayat, Maddur Taluk, Mandya District, Karnataka.

3. All Sugar and Distillery projects are listed at S. No. 5(j) & 5(g)/ 5(ga) of Schedule of Environment Impact Assessment (EIA) and 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.

4. Standard ToR and public Hearing conduction is not applicable as the project falls under category B2 as per Notification S.O 2339(E), dated 16th June, 2021. It was informed that litigation is pending against the project.

5. Ministry had issued Environment Clearances earlier vide letter EC vide F. No. J-11011/11/2011-IA II (I) dated 23.04.2013 and Amendment EC F. No. J-11011/2011 - IA II (I) dated 09.03.2015 for distillery unit at capacity 60 KLPD, captive power plant 2.1 MW. Sugar plant of capacity 5000 TCD & Co-gen plant 26 MW is in operation which is established prior to EIA Notification 2006.

6. Further, Ministry has issued Environment Clearance vide EC file no. J-11011/94/2015-IA-II (I) dated 07.04.2017 for expansion of sugar plant from 5000 TCD to 7500 TCD and Molasses/ Sugarcane juice-based distillery expansion from 60 KLPD to 75 KLPD and grain-based distillery 60 KLPD. This EC implementation is kept on hold and fresh EC is being sought for higher capacities under EBP programme.

7. Certified Compliance Report (CCR) was submitted by IRO, MoEFCC, Bangalore vide letter no. EP/12.1/2013-14/1/KAR/888 dated 29.10.2021. Certified Compliance Report is found satisfactory by the EAC and recommended the proposal.

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

Particular	Existing Capacity	Proposed expansion capacity	After expansion Total capacity
Sugar plant Expansion			
Sugar plant crushing capacity in TCD	5000	5000	10000
Co-generation	26	-	26

in MW			
Distillery Expansion			
Distillery Unit	60 KLPD RS/ENA/Ethanol using C Heavy molasses	Addition of new 100 KLPD distillery plant to produce; 100 KLPD Ethanol using C-heavy molasses Or 100 KLPD Ethanol using B-heavy molasses Or 140 KLPD Ethanol using Sugarcane syrup Or Grain based distillery to produce 60 KLPD Ethanol	•60 KLPD RS/ENA/Ethanol Or • 160 KLPD Ethanol Using C-Heavy molasses Or • 160 KLPD Ethanol using B-Heavy molasses Or • 200 KLPD Ethanol using Sugarcane Juice/syrup Or • 60 KLPD Ethanol using Grains
Distillery captive power plant in MW	2.1	0.9	3.0

9. Existing land area of Sugar, Cogen and distillery unit is 416826 m² (103 Acres), no additional land will be used for proposed expansion. Industry has already developed greenbelt in an area of 35.96 % i.e., 149734 m² (37 Acres) out of total area of the project 416826 m² (103 Acres). The estimated project cost is Rs. 609.12 Crores including existing investment of Rs. 424.12 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs. 81.18 Crores and the Recurring cost (operation and maintenance) will be about Rs. 1.98 Crores per annum. Total Employment will be 544 persons, out of this the direct employment is 476 persons & indirect is 68 persons after expansion. Industry proposes to allocate Rs. 1.38 Crores towards Corporate Environment Responsibility (CER).

10. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Shimsha is flowing at a distance of 2.1 km in East of the

industry.

11. Baseline ambient air quality monitoring is not carried out since the project is to be appraised as B2 category as per the Notification of MoEF&CC S.O 2339(E) dated 16.06.2021. However, ambient air quality monitoring is carried out by the industry as per the conditions of the Consent issued by KSPCB. The monitoring data during January 2021 indicate PM₁₀ 50.4 µg/m³, SO₂ 8.16 µg/m³ and NO_x 45.64 µg/m³. AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be PM 2.1 µg/m³, SO₂ 1.03 µg/m³ and NO_x 1.17 µg/m³. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

12. Total water requirement is as under;

Sugar & Distillery water requirement is as in the table below;

Freshwater is met from Shimsha River located at about 2.1 km in East direction from project site. (Permission to draw 56.504 mcft per year or 4705.88 KLD, is obtained from Karnataka Neeravari Nigam Limited, Government of Karnataka).

A. Total water requirements for Sugar, Co-gen plant and Domestic use Freshwater and recycle water requirement for Sugar and co-generation plant

Sl. No	Particular	Total in KLD (After expansion)	
		Freshwater	Recycle water
1	Process	-	900
2	Sugar plant cooling tower	-	2100
3	Co-gen cooling tower	-	700
4	DM plant	555	-
5	Lab and washings	10	-
6	Domestic	90	-
	Total	655	3700
Reuse in Distillery			
1	Treated condensate from sugar plant	-	350
2	C-heavy/B-heavy/ sugarcane syrup from sugar plant		511
3	Total recycle/reuse in distillery		861

B. Total water requirements for Distillery unit

Particulars	Freshwater		Domestic use in KLD	Recycled Water in KLD	Total Water Requirement in KLD
	in KLD	KL/KL of Ethanol			
60 KLPD RS/ ENA/ Ethanol with C/B-Heavy	357	5.95	15	488	860

Molasses (Existing)					
160 KLPD Ethanol with C-Heavy Molasses (Proposed)	725	4.53	15	1599	2339
160 KLPD Ethanol with B-Heavy Molasses (Proposed)	506	3.16	15	1370	1891
200 KLPD Ethanol with sugarcane syrup (Proposed)	639	3.19	15	1628	2282
60 KLPD Ethanol with grains (Proposed)	333	5.55	15	412	760

A. wastewater generated from the Sugar, Co-gen plant and domestic sewage is as in the table below;

Sl. No.	Wastewater generation	Quantity KLD	Treatment and Disposal
1			
i	Sugar Plant Process	750	Sugar plant process effluents and lab washings will be treated in existing ETP of 800 KLD plant. Treated effluent is reused for gardening
ii	Lab	10	
	Total	760	
2			
i	Sugar cooling tower bleed	430	Cooling tower bleed, DM plant rejects, boilers blow down will be treated in exiting polishing unit pond of 310 KLD capacity. Polishing pond capacity will be enhanced to meet the additional load.
ii	Co-gen cooling tower bleed	290	
iii	DM plant reject	120	
iv	Boiler's blowdown	140	
v	Excess condensate	489	
	Total	1469	
3	Excess condensate to CPU	1950	Sugar plant excess condensate will be treated in existing CPU of 1000 KLD capacity and this will be enhanced to 2000 KLPD meet the additional load from proposed. Treated condensate will be stored in 5000 KLD tank. Treated effluent water of 2229 KLPD is sent to