



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

To,

The Managing Director

M/S. THE UGAR SUGAR WORKS LIMITED

M/s. The Ugar Sugar Works Limited, Ugar Khurd village, Athani Taluk,
Belagavi District, Belgaum, Karnataka-591316

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/IND2/221757/2021 dated 10 Aug 2021. The particulars of the environmental clearance granted to the project are as below.

1. EC Identification No.	EC21A022KA110374
2. File No.	J-11011/335/2012-IA II (I)
3. Project Type	Expansion7
4. Category	A
5. Project/Activity including Schedule No.	5(g) Distilleries
6. Name of Project	M/s. The Ugar Sugar Works Ltd., distillery expansion from 200 KLPD to 845 KLPD to manufacture Ethanol
7. Name of Company/Organization	M/S. THE UGAR SUGAR WORKS 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: 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/KA/IND2/221757/2021, dated 10th August, 2021 for environmental clearance to the above mentioned project.

2. The Ministry of Environment, Forest and Climate Change has examined the proposal for environmental clearance to the proposed project distillery expansion from 200 KLPD to 845 KLPD to manufacture Ethanol at Belgaum, Karnataka by M/s. The Ugar Sugar Works Ltd located at Ugar Khurd village, Athani Taluk, Belgaum District, Karnataka State.

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 shall be appraised as category 'B2' project. It was informed that no litigation is pending against the proposal.

4. Ministry had issued Environment Clearances earlier vide letter No. J-11011/80/99-IA II (M) dated 07.11.2003 and EC letter No. J-11011/80/99-IA II dated 17.08.2000 for modernization of 30 KLD distillery unit and establishment of 45 KLD distillery unit respectively. Further, Environmental Clearance from MoEF & CC vide F. No. J-11011/315/2012-IA. II(I) dated 15.07.2017 and amendment F. No. J-11011/315/2012-IA-II (I) dated 08.12.2020 was granted for expansion of Sugar cane crushing capacity from 10000 TCD to 20000 TCD, Co-generation power plant from 44 MW to 75 MW & Molasses based Distillery from 75 KLPD to 200 KLPD by installing additional 155 KLPD plant and dismantling existing 30 KLPD plant.

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

Plant capacity	Existing as per EC 2017	EC sought for proposed expansion		
		Ethanol from C/ B - Heavy molasses	Ethanol from Sugarcane syrup	Ethanol from Grain (during sugarcane crushing off season)
45 KLD existing	45	45	45	-
155 KLD under installation	155	155	155	-
645 KLD proposed	-	-	645	400
Production scenario after expansion	200	200	845	400
<i>All units in KLD</i>				

Note: Any one of the raw material is used at a time.

6. Existing land area of Sugar, Cogen and distillery unit is 1962727.1 m² (485 Acres), additional 275186 m² (68 Acres) land will be used for proposed expansion.

Industry has already developed greenbelt in an area of 35 % i.e., 781043 m² (193 Acres) out of total area of the project 2237913 m² (553 Acres).

7. The estimated project cost is Rs. 90 Crores. Total capital cost earmarked towards environmental pollution control measures is Rs. 16.6 Crores and the Recurring cost (operation and maintenance) will be about Rs. 6.87 Crores per annum. Total Employment will be 87 persons, out of this the direct employment is 68 persons & indirect is 19 persons after expansion. Industry proposes to allocate Rs. 0.6 Crores @ of 0.75 % towards CER.

8. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. River Krishna is flowing at a distance of 0.5 km in South of the industry.

9. Baseline ambient air quality monitoring is not required since the project is 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 February 2021 indicate PM₁₀ (73.60 µg/m³), PM_{2.5} (32.86 µg/m³), SO₂ (4.61 µg/m³) and NO_x (10.33 µg/m³).

10. Total fresh water requirement after expansion shall not exceed 2247 KLPD and shall be met from Krishna River flowing at a distance of about 0.5 km in southern direction from project site. Department of Water Resource Organization, Government of Karnataka has permitted the project proponent to draw 175 MCFT per year (13577 KLD)

Mode of treatment of distillery spent wash, spent lees & other utility effluents are as under:

Molasses/Sugar syrup-based distillery operation

- Raw spent wash will be partially recycled back to fermentation process and remaining will be treated in MEE and Concentrated spent wash will be sent to drier. Potash Powder is given to Fertilizer industry.
- Spent lees and MEE condensates will be taken to Biodigester followed by Stripper & UV Treatment and reused in cooling tower makeup and in wet scrubber.
- The distillery plant will be based on Zero Liquid discharge system.

Grain based distillery operation

- Raw spent wash will be treated in Decanter. Partial thin slop is sent as wet cake to DDGS drier and remaining spent wash is sent to MEE. Concentrated spent wash from MEE will be sent as wet cake to DDGS drier. DDGS is sent for Cattle feed.
- Spent lees and MEE condensates will be treated in Stripper & UV Treatment.
- Cooling tower overflow will be recycled back to Cooling tower for water makeup.
- Treated effluent from Stripper & UV Treatment system will be reused in cooling tower makeup and in wet scrubber.

11. Power requirement after expansion will be 7.75 MW to the Distillery unit and will be met from co-generation power plant. Existing distillery plant has 1 No. 2000 KVA capacity DG set. Stack of 30 m AGL height is provided as per CPCB norms to the DG set. Existing distillery has 50 TPH with bagasse as fuel and this boiler will be upgraded to 55 TPH. Wet scrubber with stack of 45.5 m height is installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm³.

12. Details of Process emissions generation and its management:

During fermentation 495 TPD of CO₂ is estimated to be released. The CO₂ will be scrubbed and sent to CO₂ plant for production of liquefied CO₂ for commercial purpose.

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

management.					
SI. No.	Details of the Solid waste	Quantity in MT/Day			Utilization existing and after proposed expansion
		Existing	Proposed	After expansion	
Distillery plant					
1	Sludge (Yeast)	40	40	80	Supplied to farmers as manure
2	Fly Ash	3.5	0.5	4	Supplied to farmers as manure.
3	Bottom Ash	2.5	0.1	2.6	

Hazardous waste generation and its management

Waste category	Hazardous Waste	Quantity	Method of handling
5.1	Used Oil	9.54 KL	Used oil is reused for lubrication purpose for factory machineries during the season
5.2	Oil-soaked cotton waste	1.5 MT	Oil-soaked cotton waste is burnt in boilers.

14. Certified compliance report obtained from Regional Office, for the project vide File No. EP/12.1/2017-18/01 KAR/275 dated 16.07.2021 and Status of compliance is '**Satisfactory**'.

15. As per OM dated 16th June, 2021, PP has submitted self-certification in the form of affidavit declaring that the proposed expansion of 645 KLPD will be for manufacturing of fuel ethanol only.

16. During the deliberations, it was informed to the EAC that PP has approached Ministry for expansion from 200 KLD to 845 KLD without achieving the production capacity of 200 KLD granted in the previous EC letter No.J-11011/315/2012-IA. II(I) dated 15.07.2017. In this regard PP has informed that industry has not yet initiated the expansion for 200 KLD and the distillery is

operating with the production capacity of 45 KLD, CCR has been submitted for the same.

Subsequently, EAC mentioned that considering the importance of EBP programme the proposal may be recommended and Ministry may take a decision whether expansion may be granted without achieving previous EC production capacity.

Further, EAC found the CER proposed is low. Therefore, EAC directed that PP shall allocate Rs. 2 crores for CER and it shall solely be used for installation and maintenance of solar lights for the villagers. PP agreed for the same.

17. The proposal was considered by the EAC in its 39th meeting held during 17th- 18th August, 2021 in the Ministry, wherein the project proponent and their consultant M/s. Samrakshan presented the EMP report as per the PFR. The Committee found the EMP report complying with the PFR and 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 EIA/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 EIA/EMP 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 has also 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.

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 for to the proposed project distillery expansion from 200 KLPD to 845 KLPD to manufacture Ethanol at Belgaum, Karnataka by M/s. The Ugar Sugar Works Ltd located at Ugar Khurd

village, Athani 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 Conditions:

(i) As per OM dated 16th June, 2021, project falls in category B2 and the proposed additional capacity of 645 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 integrated industry shall not exceed be 2247 KLPD which shall be met from Krishna river. Prior permission shall be obtained from the concerned regulatory authority/Irrigation division in this regard, and renewed from time to time. 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 shall be treated in MEE and Concentrated spent wash will be sent to drier. Spent lees and MEE condensates will be taken into Stripper & UV Treatment. If grains are used as a raw material spent wash shall be concentrated and dried to form DDGS to be used as cattle feed.

(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 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 Conditions:

(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 Kumar 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, Belgaum District , Karnataka
7. Guard File/Monitoring File/Parivesh portal/Record File

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