



File No: J-11011/224/2008-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **03/08/2026**



To,

Sh Karthik Lingaraj Mashyal,
M/s KARTHIK AGRO INDUSTRIES PRIVATE LIMITED,
Sy No. 92 Hoolgeri Village Tal:Badami, Hoolgeri, BAGALKOTE, KARNATAKA, 587902
ed@karthikagro.in

Subject: Proposed expansion of distillery unit of capacity 245 KLPD to 450 KLPD Ethanol production or 180 KLPD ENA/RS + 270 KLPD Ethanol using grains and captive power plant capacity 8.4 MWH located at survey Nos. 92, 93, 94, and 89 in Hoolageri Village, Badami Taluk, Bagalkot District, Karnataka by M/s Karthik Agro Industries Private Limited - Consideration of Environmental Clearance.

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/KA/IND2/575322/2026 dated 30/04/2026 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC26A2504KA5714150N
(ii) File No.	J-11011/224/2008-IA-II(I)
(iii) Clearance Type	Expansion EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(g) Distilleries,5(g) Distilleries,5(g) Distilleries,5(g) Distilleries
(vi) Sector	Industrial Projects - 2 Proposed expansion of distillery plant capacity from 245 KLPD to 450 KLPD to produce 450 KLPD Ethanol or 180 KLPD ENA and 270 KLPD Ethanol using grains(Maize or rice) and captive power plant capacity 8.4 MW at Survey Nos. 92, 93, 94 and 89 in Hoolageri Village, Badami Taluk, Bagalkot District, Karnataka
(vii) Name of Project	

(viii) Name of Company/Organization

KARTHIK AGRO INDUSTRIES PRIVATE
LIMITED

(ix) Location of Project (District, State)

BAGALKOTE, KARNATAKA

(x) Issuing Authority

(xi) Applicability of General Conditions as per
EIA Notification, 2006

No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for expansion of distillery unit of capacity 245 KLPD to 450 KLPD Ethanol production or 180 KLPD ENA/RS + 270 KLPD Ethanol using grains and captive power plant capacity 8.4 MWH at survey Nos. 92, 93, 94, and 89 in Hoolageri Village, Badami Taluk, Bagalkot District, Karnataka by M/s Karthik Agro Industries Private Limited.

4. All Distillery projects are listed at Sl. No. 5 (g) of the Schedule to the Environment Impact Assessment (EIA) Notification under category 'A' are appraised at the Central Level by the Expert Appraisal Committee (EAC).

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

Sl. No	Unit	Product/ by product	Existing Quantity	Proposed Quantity	Total Quantity
1	KLD	Ethanol using grain as feedstock	245	205	450
2	KLD	ENA/RS using grain/molasses as feedstock	180	-	180
3	MW	Distillery captive power plant	8.4	-	8.4
4	TPD	DDGS	140	180	320
5	TPD	CO2	104	85	189

Note: PP shall ensure that the total ethanol production capacity does not exceed 450 KLPD at any point in time.

6. Ministry has issued Environmental Clearance to the existing distillery to produce 65 KLD RS/ENA/Ethanol vide File No. J- 11011/224/2008 - IA. II (I) dated 17.03.2009 and MoEF&CC has issued Environmental Clearance for expansion of distillery from 65 KLPD to 180 KLPD to produce 180 KLD of Ethanol or 180 KLD of ENA / RS and Captive Power Plant of 5.4 MW vide File No. J-11011/224/2008-IA. II (I) dated 17.03.2022 and MoEF&CC has issued Environment Clearance for expansion of distillery unit Expansion from 180 KLPD to 245 KLPD and CPP of 8.4 MW under EBP program vide File No. J-11011/224/2008-IA-II(I) dated 06.10.2022. Certified Compliance report of existing EC has been obtained from Integrated Regional Office, MoEF&CC, vide File No- EP/12.1/2022-23/55/KAR 512 dated 03.09.2025 wherein five minor non-compliances are reported suggesting Industry to:

- Clearly demarcate the project boundary and identify all structures, including nearby water bodies, located in close proximity to the project site. Under no circumstances shall wastewater be discharged into these water bodies.
- Maintain the approach road in good condition and ensure strict adherence to traffic management and

safety guidelines.

iii. Further develop and maintain the greenbelt over the earmarked land as prescribed under the Environmental Clearance.

iv. Carry out routine monitoring of environmental quality parameters, including ambient noise levels and groundwater quality, in accordance with the guidelines issued by the KSPCB, CPCB and the Ministry from time to time.

v. Strictly implement the Corporate Environment Responsibility (CER) and socio-economic development activities committed under the Environmental Clearance and maintain proper records of the activities undertaken.

7. Standard Terms of Reference have been obtained vide File No. J-11011/224/2008-IA-II(I) dated 17.02.2025. PP informed that no litigation is pending against the proposal.

Public Hearing for the proposed project was conducted by the Karnataka State Pollution Control Board on 10.12.2025 at the project site, chaired by the Deputy Commissioner, Bagalkote District. The main issues raised during the public hearing and their action plan:

Sl. No.	Name	Response given in PH	Action plan in brief	Budget allocated and Timeline
1	<p>Name of the person: Shri Gurunath Kittali, Sullikeri Village</p> <p>Issue in brief:</p> <ul style="list-style-type: none">He informed the meeting that the said industry is carrying out development works in the surrounding villages.He said that, currently, the public of the surrounding villages has employment opportunities from this factory directly and indirectly.He requested the said industry to use the latest best available technology and operate the industry without causing any inconvenience to the surrounding villagers.He expressed his support for the said proposed expansion project.	-	<ul style="list-style-type: none">Positive response with suggestions.The existing industry provided 253 Nos of employment and in the proposed expansion additional 100 Nos. of employment opportunities will be generated.Preference will be given to localities from the surrounding villages based on their education qualification.Industry provided four filed ESP to 55 TPH boiler and three field ESP to 16 TPH boiler, the additional one more ESP will be provided to 16 TPH boiler and separate stack of 72 m AGL will be provided to 55 TPH.Existing Distillery unit is provided with CPU of 2000 KLD capacity and CPU will be upgraded/ retrofitting of existing units with latest technologies during expansion of the project.	<p>Rs. 5 Crore is earmarked as EMP capital cost for upgrading the Air pollution control devices.</p> <p>Rs. 18 Crores is earmarked for handling of Solid waste management.</p>

			<ul style="list-style-type: none"> • DDGS generated will be sold to cattle feedings • The best available technologies will be adopted in the proposed expansion. 		
2	<p>Name of person : Shri Hajisayeed Tahashildar, Sullikeri Village</p> <p>Issue:</p> <ul style="list-style-type: none"> • He requested the industry to distribute the saplings to every single house of surrounding villages. • He requested to provide information about the seeds and fertilizers required to grow Maize which fetches high prices. • The Hon'ble Deputy Commissioner informed the meeting that, he will instruct the Joint Director, Agriculture Department to provide information about the seeds and fertilizers required to grow Maize and to organize an awareness program in this regard 	-	<ul style="list-style-type: none"> • Positive response with suggestions. • The industry proposes to plant 400 to 500 tree saplings annually either within or around the industry, encouraging the private land owners to grow peripheral plantations, and the budget allocated to further greenbelt development and nourishment is Rs. 5,00,000. • The avenue plantation is proposed in village area under CER activities 	Rs. 5 lakh is earmarked for development of greenbelt and distribution of saplings. Also, an Amount of Rs. 5 Lakhs is separately earmarked for avenue plantation	2026-28
3	<p>Name: Shri. Ravikumar Math, Veerapur RC</p> <p>Issue:</p> <ul style="list-style-type: none"> • He informed the meeting that, the industry has built toilets in the schools of surrounding villages and has also cleaned the drains in the surrounding villages. • He informed that, the industry has helped the surrounding villages by distributing food kits and medical kits during the Corona pandemic. 	-	<ul style="list-style-type: none"> • Positive response. He supported the project proposal. • An amount of Rs. 1.37 Crores is spent for various developmental activities. 	An Amount of Rs. 105 Lakhs is earmarked for development of infrastructure facilities in schools and developmental activities in surrounding villages under CER activities.	2027-30

	<p>He expressed confidence that, the public of the surrounding villages has got employment opportunities from this factory directly and indirectly and that, the proposed project will provide employment opportunities to the public of the surrounding villages in more numbers</p> <p>•Therefore, he informed the meeting that, he has no objection to implementing the proposed project.</p>				
4	<p>Name: Shri. Ramesh Jadhav, Mudhol City</p> <p>Issue:</p> <p>•The said industry has benefited 10,000 to 20,000 farmers in the surrounding area a lot. He told the meeting that, since the by-product of this industry cattle feed is being provided at a low price to the surrounding farmers, the farmers who had one cow are now have ten cows, he informed.</p> <p>•Therefore, he expressed his support for the proposed project</p>	-	<p>• Positive response. He supported the project proposal.</p> <p>•The DDGS generated from the process is given to animal feed and it will be continued.</p>	-	-
5	<p>Name: Shri Sanjeev Kakaraddi, Hoolageri village</p> <p>Issue:</p> <p>•He informed that, the industry has provided direct and indirect employment opportunities to the public in the surrounding villages.</p> <p>• He requested that priority to be given to the surrounding farmers in</p>	-	<p>• Positive response and supported the expansion proposal.</p> <p>• Presently industry has provided an extent of 90 % employment for the local people only.</p> <p>• The maize is procured from APMC, traders and farmers.</p> <p>•Industry is selling DDGS at lower cost than market price.</p> <p>•The industry is operating on Zero Liquid Discharge</p>	-	-

	<p>purchasing maize.</p> <ul style="list-style-type: none"> • He requested the industry to provide cattle feed to the villagers of the surrounding villages at a discounted rate. •He requested that, the industry should purchase maize directly from the farmers at the rate announced by the Government. •He requested that, more employment opportunities be provided to the youth of the surrounding villages. •He requested the said industry to use latest best available technology and operate the industry without causing any inconvenience to the surrounding villagers. 		<p>concept. The treated effluent is completely reused in the process and cooling tower makeup.</p> <ul style="list-style-type: none"> •Industry is using ESP as Air pollution control equipment for control of particulate matter. •EMP budget kept for the proposed expansion is Rs. 26.05 Crores as capital cost and Rs. 1.16 Crores as annual recurring cost. • The best available technologies will be incorporated in the proposed expansion project. 		
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Compliance to the written complaints:

Sl. No.	Issue in brief	Response given in PH	Action plan in brief	Budget allocated & Timeline
1	<p>Name of the person: Shakthi Environment Rural Development Society</p> <p>Issue: Medical health checkup camps in surrounding villages</p>	-	<ul style="list-style-type: none"> • Positive response and supported the expansion proposal. •Industry has developed greenbelt area 37 % of total plant area. Additional industry proposing greenbelt development in surrounding villages in consultation with local Panchayath. • Industry will conduct health checkup camps in surrounding villages. 	<p>Rs. 5 Lakhs</p> <p>Timeline : 2026-28</p>
2	<p>Name of the person: Varsha Environmental and Rural Development society, Rudrampet bypass, Anantapur,</p>	-	<ul style="list-style-type: none"> • Positive response and supported the expansion proposal. •Industry provided 90% of employment to the local peoples only. •Industry has developed 	<p>Rs. 105 Lakhs is earmarked for CER activities</p> <p>Timeline 2026-29</p>

	<p>Andra Pradesh.</p> <p>Issue:</p> <ul style="list-style-type: none"> • Possible more employment opportunities to the local people based on the educational qualifications • Increase the tree plantation with local species • Conducting periodical health checkup of employees • Providing the right PPE's to workers and ensuring the usage by workers • Use of best available technologies in for controlling the pollution • Providing public toilets, solar street lights and drinking water facilities in villages 		<p>37% of total plant area for greenbelt development about 37027 Nos trees of local species.</p> <p>• Periodical health checkup of employees is carried out by the industry and same will be continued.</p> <ul style="list-style-type: none"> • PPE's are provided to operators and it is ensured that, right PPE's are using by the operator. • Public toilets, solar street lights and drinking water facilities in villages are proposed under CER activities. 	
3	<p>Name of the person: Save Earth, Metro urban & Rural Development Society, Rangareddy District, Telangana State</p> <p>Issue:</p> <ul style="list-style-type: none"> • Collect the crop production status and ground water availability and health status of the people & conduct health & immunity development awareness programmes • Development of rainwater harvesting system • Avenue plantation for internal roads • Skill development training to unemployed youth, local educated 	-	<ul style="list-style-type: none"> • Positive response and supported the expansion proposal. • The crop production details are given in the socio economic section in EIA report, chapter 3, under section 3.9.8 – Agricultural sector. • Industry has planned conduct health checkup camps in village area • Rainwater harvesting system has implemented at the site. • Skill development training to unemployed and avenue plantation in the village area is proposed under CER activities • Rural development programs are proposed under CER activities 	Rs. 105 Lakhs is earmarked for CER activities Timeline: 2026-28

	unemployed youth to give employment ●CSR activities shall be supporting Rural primary education for weaker sections			
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8. Total plant area after expansion will be 16.19 ha, which is under possession of the company and converted to industrial use/ 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, for green belt and plantation, 6.12 Hectares, i.e., 37.8% of the total plant area, has already been developed as greenbelt & plantation and the same will be maintained. The estimated project cost is Rs. 80 Crores towards the expansion. Capital cost of EMP would be Rs. 28.85 Crores, and recurring cost for EMP would be Rs. 1.165 Crores per annum after expansion. Industry proposes to allocate Rs. 1.05 Crores towards extended EMP. Total Employment after expansion will be 353 persons, as direct & indirect.

9. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors, etc. within 10 km distance. Reserve forest located adjacent to North boundary of the project site. The Deputy Conservator of Forests, Bagalkote, in a letter dated 31.03.2026, has certified the presence of the Reserve Forest adjacent to the industry and opined that this project is unlikely to cause any damage to the Forest and Wildlife resources. Water bodies: Ghataprabha River flows at 8.2 km towards the North.

Project site proximity to a sensitive area	-
Habitation	Kerkalmatti village at 1.5 km in South-West
School	Primary school located in Kerkalmatti village at 1.5 km in South-West
River/Waterbody	Muchakhandi Pond is at 7.71 km towards East Ghataprabha River flows at 8.2 km towards the North.
Forest	● Reserve forest located adjacent to North boundary of the project site ● Reserve forest located near Hire-Shellikeri at 2.8 km in West ● Reserve forest located near Kerkalmaui at 5.5 km in South
Archaeological Survey of India (ASI) protected site	-
Any other	-
Compliance of MoEF&CC OM dated 14/02/2022 regarding the sitting of Industries in close proximity to the river	Ghataprabha River flows at 8.2 km towards the North. The site is not in a flood plain, hence the OM Dated 14.02.2025 is not applicable.

10. Ambient air quality monitoring was carried out at 8 locations during February to April 2025 and the baseline data indicates the ranges of concentrations as: PM10 (48.21 – 78.64 µg/m³), PM2.5 (26.14 – 45.8 µg/m³), SO₂ (4 – 5.98 µg/m³) and NO₂ (9 – 12.25 µg/m³). AAQ modelling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 1.74 µg/m³, 1.04 µg/m³, 0.836 µg/m³ and 1.047 µg/m³ with respect to PM10, PM2.5, SO₂ and NO₂. The resultant

concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Total freshwater requirement after expansion will be 1645 m³/day (including domestic 20 KLD, which will be met from the Ghataprabha River. NoC has been obtained from Government of Karnataka's Water Resources Department, to draw 19.40 MCFT. Executive engineer has recommended to Secretary, Government of Karnataka, Water Resources Department for renewal of water permission on 07.04.2024 for period 17.12.2023 to 16.12.2028. Existing effluent generation is 1841 CMD which is treated through Condensate Polishing Unit of capacity 2000 CMD. Proposed effluent generation will be 1987 CMD which will be treated through existing Condensate Polishing Unit of capacity 2000 CMD and it is proposed to upgrade the existing Condensate Polishing Unit by installing additional 1200 m³/d process condensate treatment plant (PCTP) Reverse Osmosis (RO) base Plant for efficient treatment and reuse of condensate streams. The accept from the proposed RO Plant will be reused as Cooling Tower make-up and for slurry preparation. Domestic waste water is will be treated in STP 30 KLD. The plant is will be based on Zero Liquid discharge system and treated effluent/water is being/will not be discharged outside the factory premises.

12. The total power requirement of the distillery plant after expansion will be 8.4 MW/hr, which will be sourced from the existing 8.4 MW captive power plant. The distillery unit has a 16 TPH capacity biomass-fired boiler with a stack height of 52 m AGL. The APCE-ESP to this boiler will be upgraded to ESP to control the particulate emissions within the statutory limit of 50 mg/Nm³. An additional 55 TPH boiler will be installed and a 72 m AGL stack height and an ESP as an air pollution control device will be provided to control particulate emissions within the statutory limit of 50 mg/Nm³. The Incineration boiler of 40 TPH was approved in the earlier EC; this boiler will be installed when the molasses-based distillery in operation. The industry has 500 kVA (3 m ARL stack height) existing DG sets. No DG set is proposed during the expansion of the project. DG sets will be used as a standby during any shutdown.

13. Details of Process emissions generation and its management:

- A Carbon dioxide plant of 126 TPD is installed for the existing distillery of 245 KLD. For the expanded capacity, Carbon dioxide of about 189 TPD as process emission from the distillery fermentation process is estimated. It will be recovered by expanding the Bottling plant using scrubbers, and the recovered CO₂ will be sold as a by-product.

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

Solid waste:

- Boiler ash – 103 MTD
- Yeast sludge – 55 MTD
- CPU sludge – 5 MTD
- DDGS – 320 MTD sold as cattle feed
- Boiler ash sold to brick manufacturers, yeast sludge given to farmers to use as bio manure and CPU sludge to use as manure for gardening.
- DDGS is a byproduct from distillery process and given to farmers and sold it as animal feed

Hazardous waste:

- Used oil – 0.6 KLA - Used oil and waste residues containing oil will be collected in leakproof containers and disposed of through KSPCB-authorized re-processors/ Incinerators.
- Oil-soaked cotton waste – 0.5 TPA - will be collected in leak-proof containers and disposed of through

KSPCB-authorized re-processors/ Incinerators.

- Empty containers – 1.5 MTPA will dispose through authorized recyclers.

Capital cost and recurring cost of EMP are given below:

Sl. No.	Description	Financial provision in Rs. In Lakhs			
		Existing Capital cost	Existing Recurring cost per annum	Proposed Capital cost	Proposed Recurring cost per annum
1	MEE, ETP, and Water pollution control system	600	50	300	5
2	Implementation of Air Pollution Control Systems viz. required stack heights for DG set & boiler, and ESP for boiler	1700	150	500	15
3	Occupation Health and safety	15	5	50	10
4	Greenbelt development - Tree plantation and landscaping measures	20	5	-	5
6	Solid waste management - Ash silo and DDGS collection facilities, dryer	30	10	1800	40
7	Online monitoring system for stack emission and effluent generation and web camera	50	15	15	5
8	Firefighting equipment and others	500	5	-	5
9	Manual cost of monitoring system for stack emission & effluent generation/Annum	-	11	-	11.5
10	Rainwater Harvesting	10	2	20	5
11	Solar lighting for gardens and street lighting	-	-	100	15
12	Corporate Environment Responsibilities	200	-	100	-
	Total	3125	253	2885	116.5

Details of Extended EMP with proposed activities and budgetary allocation:

Sl. No.	Activities	Fund Allocation (Rs. In Lakhs)
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1	Construction of infiltration pits around village drinking water bore wells for groundwater recharge and water conservation. In Murnal, Sulikeri and Yadahalli	8
2	Providing drinking water facilities (RO plants) to Kagalgomb.	15
3	Infrastructure and sanitation work in Govt. schools, Hireshellikeri Health check-up in nearby villages viz. Hoolageri, Simikeri, Sulikeri, Kerkalmatti	35
4	Proposed installation of solar streetlights in Kerkalmatti, Hoolageri, Sulikeri, Yadahalli and Mrunal Gram Panchayat	37
5	Avenue plantation along the main roads near Sulikeri, Hoolageri, and Yadahalli villages.	10
Total		105

15. During deliberations, EAC discussed the following issues:

- The project proponent has informed that Action Taken Report has been submitted to IRO, MOEFCC on 23.12.2025 regarding minor non-compliances related to development of green development, utilisation of CER funds among others. The Project proponent has informed that the Industry has developed 37.8% of the total plant area as green belt. Further, the Industry shall carry forward the unspent CER amount of Rs. 0.79 Crore before the proposed expansion. The committee sought the aerial photography of the green belt. PP has submitted the drone photography of the greenbelt developed in the Industry. EAC found the compliance status satisfactory.
- The committee also suggested the proposed CER activities in this instant proposal shall be completed before commissioning of the proposed expansion.

16. The proposal was considered by the EAC (ID: EC/AGENDA/EAC/738890/6/2026) meeting held on 07th July, 2026 in the Ministry, wherein the project proponent and the accredited Consultant M/s Samrakshan (NABET certificate no. NABET/EIA/25-28/RA 0410 and validity 26 July 2028), presented the case. The Committee recommended the project for grant of environmental clearance.

17. The EAC, constituted under the provisions of the EIA Notification, 2006 and comprising Expert Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the 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.

18. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the

project. The Committee has also deliberated on the Extended EMP 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 Expert Members of the EAC have found the proposal in order and have recommended the 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 for **proposed expansion of distillery unit of capacity 245 KLPD to 450 KLPD Ethanol production or 180 KLPD ENA/RS + 270 KLPD Ethanol using grains and captive power plant capacity 8.4 MWH located at survey Nos. 92, 93, 94, and 89 in Hoolageri Village, Badami Taluk, Bagalkot District, Karnataka by M/s Karthik Agro Industries Private Limited** under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions.

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 the 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.

Copy To

1. The District Collector, DC Office, Bagalkote, Bagalkote, Karnataka, dcbagalkot07@gmail.com
2. The Deputy Director General, Regional Office, Ministry Of Environment Forest And Climate Change Regional Office Kendriya Sadan 4th Floor E&F Wing 17th Main Road Koramangala Ii Block Bangalore - 560034, N/A, N/A, rosz.bng-mef@nic.in
3. The Member Secretary, CPCB, Parivesh Bhawan Cbd-Cum-Office Complex East Arjun Nagar, East, Delhi,

Annexure 1**Specific EC Conditions for (Distilleries)****1. Distilleries**

S. No	EC Conditions
1.1	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.
1.2	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.
1.3	NOC from the Concerned Local authority shall be obtained before start of the construction of plant and drawing water from surface water. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
1.4	Total fresh water requirement after expansion shall not exceed 1645 m ³ /day which is sourced from the Ghataprabha River. Industry shall construct a rainwater storage pond of adequate capacity and the accumulated water to be used as fresh water thereby reducing freshwater consumption.
1.5	For achieving zero liquid discharge in distillery on molasses after expansion, spent wash shall be concentrated in evaporation and concentrated spent wash shall be incinerated in the incineration Boiler. For achieving zero liquid discharge in distillery after expansion during operation on grain, whole stillage/spent wash shall be treated through decanter followed by evaporation followed by dryer to produce DDGS. Low strength effluent (process condensate and spent lees) shall be treated in condensate polishing unit (CPU). Distillery has a Condensate Polishing Unit of capacity 2000 CMD (1000 CMD + 1000CMD). It is proposed to upgrade the existing Condensate Polishing Unit by installing an additional 1200 CMD process condensate treatment plant (PCTP) based on Reverse Osmosis (RO) for efficient treatment and reuse of condensate streams. Domestic waste water shall be treated in STP of 30 KLD. The plant shall be based on Zero Liquid discharge system and treated effluent/water shall not be discharged outside the factory premises.
1.6	Adequate numbers of ground water quality monitoring stations by providing piezometers around the project area shall be set up considering the ground water hydrogeology. Sampling and trend analysis monitoring must be conducted on monthly basis and report submitted to SPCB and RO-MoEF&CC. The ground water quality monitoring for pH, BOD, COD, Chloride, Sulphate, colour and Total Dissolve Solids shall be monitored and report submitted to the Ministry's Regional Office.

S. No	EC Conditions
1.7	The distillery unit has a 16 TPH capacity biomass-fired boiler with a stack height of 52 m AGL. The APCE-ESP to this boiler shall be upgraded to ESP to control the particulate emissions within the statutory limit of 50 mg/Nm ³ . An additional 55 TPH boiler shall be installed and a 72 m AGL stack height and an ESP as an air pollution control device will be provided to control particulate emissions within the limit of 50 mg/Nm ³ . The Incineration boiler of 40 TPH was approved in earlier EC, this boiler shall be installed when molasses-based distillery in operation. At no time, the emission levels shall exceed the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/systems will be conducted annually.
1.8	The DG sets used for power requirements shall comply with the latest CPCB norms.
1.9	Boiler ash (103 MTD) sold to brick manufacturers, yeast sludge given to farmers to use as bio manure and CPU sludge to use as manure for gardening.
1.10	104 TPD CO ₂ plant is installed in the existing distillery. After distillery expansion, an additional 85 TPD CO ₂ plant shall be installed. CO ₂ generated during the fermentation process will be bottled & supplied to manufacturers of beverages/secondary uses.
1.11	PP shall allocate at least Rs. 0.50 Crores proposed as a capital cost and Rs. 0.10 Crore as recurring cost 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.
1.12	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.
1.13	The unit shall make arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms. PESO certificate shall be obtained. Location of ethanol storage tanks shall be placed in such a way that in the event of any fire, accident, explosion or any unforeseen conditions the impact of such event should not go beyond the boundary of the plant, i.e., the risk should be tolerable (acceptable) at the boundary. PP shall adhere to OISD standards specifically OISD-STD-108 & 129.
1.14	Company shall maintain an Emergency Response Decision support system in such a way so that identification of the detector's network for the location of the leak source and the probable leaked quantity in real-time, followed by modelling of the dispersion of the plume and consequences as forecast is done in advance and thus, no leak accident may go unattended. Accordingly, Risk Mitigation plan shall be in place.
1.15	Company shall determine the distance of fire hydrant while finalizing its location from ethanol storage tanks or any other hazardous storage substance shall be based on dispersion of Thermal Radiation so that during any unforeseen situation fire hydrant is always available to operate manually.
1.16	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.

S. No	EC Conditions
1.17	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.
1.18	Greenbelt of at least 5-10 m width has already been developed in 6.12 Hectares, i.e., 37.8% of the total plant area which shall be densified with tree density @ 2500 trees per hectare, mainly along the plant periphery. Indigenous species shall only be planted as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall plant at least 20 variety of species as a part of greenbelt. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. No cutting of existing trees is permitted. Records of tree canopy shall be monitored through remote sensing map. Trees shall be planted in the Green Belt under the campaign #Plant4Mother #एक पेड़ माँ के नाम and uploaded on the MeriLiFE portal (https://merilife.nic.in/).
1.19	PP proposed to allocate Rs. 1.05 Crores towards Extended EMP which shall be spent as submitted in Extended EMP. The Industry shall utilise the unspent CER of Rs. 0.79 Crores of EC dated 17.03.2022. All the proposed activities under CER shall be carried out in consultation with District Administration and completed before commissioning of the plant.
1.20	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. At least 15% of total project area shall be allotted solely for parking purposes with facilities like rest rooms etc.
1.21	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 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.
1.22	Continuous online (24x7) monitoring system for stack emissions/effluent 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.
1.23	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/ Director/CEO as per company hierarchy.
1.24	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 th August, 2021. A report along with photographs on the

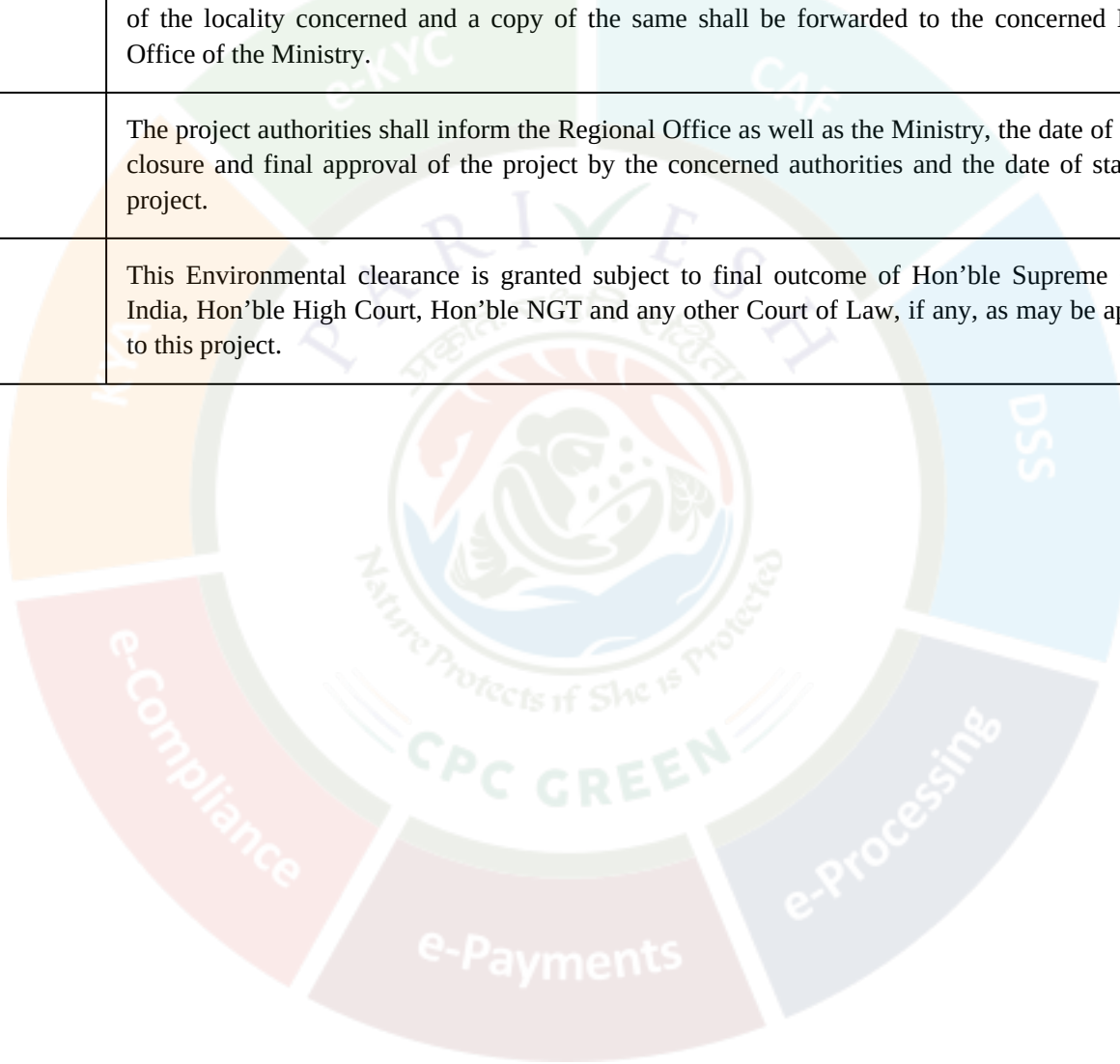
S. No	EC Conditions
	measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority.
1.25	The flowmeter and PTZ camera shall be installed as per CBCB guidelines and at the outlet of MEE and real time OCEMS (flowmeters camera and PM ,SO _x parameters) is connected with SPCB portal and new OCEMS portal of CPCB and shall ensure periodic calibration.

Standard EC Conditions for (Distilleries)

1. General Conditions

S. No	EC Conditions
1.1	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.
1.2	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	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).
1.4	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.
1.5	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.
1.6	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.
1.7	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.

S. No	EC Conditions
1.8	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.
1.9	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.
1.10	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.
1.11	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.



Signature Not Verified

Digitally Signed by: Dr Vimal Kumar
Hatwal
Member Secretary, MoEFCC (EC)

Date: 03/08/2026