



CONSENT ORDER FOR ESTABLISHMENT FOR EXPANSION- RED CATEGORY

Order No.098/TGPCB/CFE/RO-HYD/HO/2025-

Dt.18.08.2025

Sub:	TGPCB – CFE - M/s. Allied Blenders and Distillers limited., (Distillery unit), (Formerly Shasta bio-fuels Pvt. Ltd.), Sy. Nos. 689, 690/AA, 691/AA2, 692, Rangapur (V), Pebbair (M), Wanaparthy District – Application for CFE (Expansion) - Issued - Reg.
Ref:	1) Environmental Clearance issued vide order dated 24-08-2009. 2) EC expansion order dated 09.03.2023. 3) CFE Expansion order dated: 07.07.2023. 4) CFO Expansion order dated 19.10.2023. 5) TGPCB Lr. No. TGPCB/RO-HYD/HO/CFO/2024, Dated: 12.07.2024 (Amendment to CFO & HWA order). 6) EC expansion order no 03.05.2025 7) Industry's application for CFE (Expansion) received through TG-iPASS on 16.05.2025. 8) RO's verification report dt. 30.05.2025. 9) Additional information submitted by the industry on 18.06.2025 10) JCEE, ZO-Hyderabad verification report dt. 05.08.2025. 11) CFE Committee meeting held on 06.08.2025.

1. M/s. Allied Blenders and Distillers limited., (Distillery unit), (Formerly Shasta bio-fuels Pvt. Ltd.), located at Sy.Nos. 689, 690/AA, 691/AA2, 692, Rangapur (V), Pebbair (M), Wanaparthy District is a Distillery (Grain based) with Distiller's Dried Grains with Solubles (DDGS) as by product @ 16.1806144, 77.944551.
2. The industry has obtained the Environmental clearance for the above project vide Order No – MoEF (I.A. Division): F. No. J-11011/02/2009-IA II (I), dated 24.08.2009.
3. The industry has obtained the EC expansion order no SIA/TG/IND2/403131/2022 dated 09.03.2023 (EC23B022TG193689).
4. The industry has obtained CFE (Expansion) of the Board vide order dated 07.07.2023 for production of Rectified Spirit /Ethanol / ENA - 65,700 KLPA (180 KL x 365 days), Electricity - 2372.5 MW and Impure Spirit - 2190 KLPA, Fusel Oil - 0.1 KLD, CO₂ - 35,040 TPA & DWGS* 51,830 TPA as by Products.
5. The industry has obtained CFO of the Board vide order dated 19.10.2023 with validity up to 31.03.2028 for production of Rectified Spirit /Ethanol / ENA – 65,700 KLPA* (180 KL x 365 days) and Electricity – 2372.5 MW and By-products as Impure Sprit – 2190 KLPA, Fusel Oil – 43.8 KLPA, CO₂ – 35,040 TPA and DWGS & DDGS – 51,830 TPA.
6. The industry has obtained CFO amendment vide order dated 12.07.2024 for the following
Name change from M/s. Allied Blenders and Distillers Pvt. Ltd to M/s. Allied Blenders and Distillers limited,

Production: Electricity – 2372.5 MW to 6.5 MW.

Solid waste: Waste oil – 2500 TPA to 2500 Ltr/Annnum.

7. The industry has again obtained latest EC expansion vide dated: 03.05.2025 and submitted an application to the Board seeking Consent for Establishment (CFE) to produce following products after expansion with capacities as mentioned below, with a expansion project cost of Rs. 385.74 Crores (After expansion):

S. No	Products	As per Existing CFO vide order dated 19.10.2023 & 12.07.2024	As per EC expansion order dated 03.05.2025	After expansion (Annual Capacity)
1	ENA / Rectified Spirit /Ethanol	65,700 KLPA (180 KL x 365 days)	--	65,700 KLPA (180 KL x 365 days)
2.	Malt Spirit	--	12 KLPA	4380 KLPA
3.	Electricity	6.5 MW	--	6.5 MW
<ul style="list-style-type: none">The industry shall achieve the expansion capacity through process optimization route using the superior quality grain, high yield enzyme and yeast only.				
By Products				
1.	Impure Spirit	2190 KLPA	--	2190 KLPA
2.	Fusel Oil	43.8 KLPA	--	43.8 KLPA
3.	CO2	35,040 TPA	--	35,040 TPA
4.	DWGS*	51,830 TPA	24 TPD	60,590 TPA
5.	DDGS*			

Note: 1.Quantity of Generation of DDGS & DWGS depends on type/ mix of grains used in manufacturing and ratio of DWGS & DDGS opted for customer requirement.*

2. There is no CO2 generation in Malt plant (Quantify CO2/day and align with design capacity of CO2.)

8. As per the application, the above activity is to be located in the existing plant premises at Sy. Nos. 689, 690/AA, 691/AA2, 692, Rangapur (V), Pebbair (M), Wanaparthy District in an area of 30 Acres.

9. The above site was inspected by the Environmental Engineer, Regional Office, Hyderabad, T.S. Pollution Control Board on 28.05.2025 and observed that the site is surrounded by:

North: Agriculture lands;
South: Orange / Lemon gardens/Agricultural lands;
East: Agriculture lands;
West: Agricultural lands followed by Krishna River basin;

10. The Board, after careful scrutiny of the application, verification report of the Regional Officer, E.C. expansion Order dated 03.05.2025 issued by SEIAA, additional

information submitted by the industry on 18.06.2025 and after examining in the CFE Committee meetings held on 06.08.2025 hereby issues CONSENT FOR ESTABLISHMENT for expansion to your industry under Section 25 of Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. This order is issued to the products and capacities as mentioned at Para (3) only.

11. This Consent Order now issued is subject to the conditions mentioned in Schedule 'A' and Schedule 'B'.

12. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.

Encl: Schedule 'A'
Schedule 'B'

Sd/-
MEMBER SECRETARY

To
M/s. Allied Blenders and Distillers limited., (Distillery unit),
(Formerly Shasta bio-fuels Pvt. Ltd.),
Sy. Nos. 689, 690/AA, 691/AA2, 692,
Rangapur (V), Pebbair (M), Wanaparthi District

//T.C.F.B.O//

 Joint Chief Environmental Engineer

SCHEDULE – A

1. **This order is valid for a period of 5 years from the date of issue.** Progress on implementation of the project shall be reported to the concerned Regional Office, T.S. Pollution Control Board once in six months. The consent of the Board shall be exhibited in the factory premises at a conspicuous place for information of the inspecting officers.
2. The proponent shall obtain Consent for Operation (CFO) from TGPCB, as required Under Sec.25/26 of the Water (Prevention and Control of Pollution) Act, 1974 and under sec. 21/22 of the Air (Prevention and Control of Pollution) Act, 1981, before commencement of the activity.
3. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
4. The industry is liable to pay compensation for any environmental damage caused by it, as fixed by the Hon'ble Courts, Collector and District Magistrate as Civil liability.
5. The rules and regulations notified under Environmental Acts by the MOEF&CC and by the Ministry of Law and Justice, GOI, regarding the Public Liability Insurance Act, 1991 shall be followed.
6. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order may result in withdrawal of this order and attract action under the provisions of relevant pollution control Acts.
7. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers under Section 27(2) of the Water (Prevention & Control of Pollution) Act, 1974 and under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and amendments thereof, to review any and/or all the conditions imposed herein, to modify conditions or stipulate any further conditions and to take action including revocation of this order in the interest of public health and environment.
8. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per the State Water Rules, 1976 and Air Rules, 1982, to such authority (hereinafter referred to as the Appellate Authority) constituted under Section 28 of Water (Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air (Prevention and Control of Pollution) Act, 1981.

SCHEDULE – B

Water (After expansion) :

1. The Board issues CFE expansion order with a condition that the industry shall obtain Letter of Intent (LOI) from Excise Department by the time of applying for CFO (Expansion) of the Board.
2. The source of water is Krishna River. The maximum total fresh water consumption shall not exceed 2560 KLD. The industry shall not use ground water in the process under any circumstance.

Water Requirement & Wastewater Generation Through Different Stream For Existing 180 KLD Of ENA Production

S. No	Description	Total Water Consumption (Day -1)	Make up/ Fresh Water Requirement	Effluent Generation Quantity	Total Recycled Water/ Consumption / Out put	Evaporation Loss
1	Process	1425	525	900	249	186
2	Cleaning and washing purpose	90	0	90	90	
3	Cooling Tower Makeup	1559	608	179		1380
4	Boiler Feed	1108	400	40	708	360
5	C02 Plant	12	12	12	0	0
6	Domestic Water	15	15		12	3
7	ETP Primary & Secondary	231			219	12
8	ETP tertiary	1059	840	201	858	
9	Decanter	900			702	198
10	MEE	699	0	0	593	106
11	Greenbelt, Ash Quenching and dust Suppression	155		0		155
Total		7253	2400	1422	3431	2400
System holding water		7253 - 2400 = 4853				

Note:* 1.Quantity of Generation of DDGS & DWGS depends on type/ mix of grains used in manufacturing and ratio of DWGS & DDGS opted for customer requirement.

2. There is no CO2 generation in Malt plant (Quantify CO2/day and align with design capacity of CO2.)

Water Requirement & Wastewater Generation Through Different Process after expansion

S. No.	Section	Total Water Consumption (Day -1)	Make up/ Fresh Water Requirement	Effluent Generation Quantity	Total Recycled Water/ Consumption/ Out put	Evaporation Loss
1	Process	1425	525	900	249	186
2	Process for malt Unit	120	120	48	60	12
3	Cleaning and washing purpose	94	4	93	90	1
4	Cooling Tower Makeup	1609	552	184		1425
5	Boiler Feed	1143	435	42	708	393
6	CO2 Plant	12	12	12		0
7	Domestic Water	16	16	16	12.5	3.5
8	ETP Primary & Secondary	289		0	274	15
9	ETP tertiary	1170	896	223	947	
10	Decanter	900			702	198
11	MEE	721			613	108
12	Greenbelt, Ash Quenching and dust Suppression	158.5		0		158.5
	Total	7657.5	2560	1518	3655.5	2500
	System holding water	7657.5 - 2560 = 5097.5				

Note:* During proposed expansion of 12 KLD Malt Spirit Plant, Fresh water requirement will be 160 KLD, this quantity will be treated in WTP, this will generate 22 KLD WTP reject water which will be treated at ETP tertiary treatment RO-3, followed by MEE plant

3. The maximum Waste Water Generation (KLD) shall not exceed the following and Effluent Treatment & Disposal shall be as follows:

Outlet No.	Outlet Description	After expansion	Point of Disposal
i.	Process (for grain based distillery)	900	Shall be sent to the decanter and the thin slop shall be sent to MEE to concentrate and the condensate shall be treated in Ecophotox plant followed by reuse in the process and concentrate sent to dryer to get DDGS.
ii.	Process(for Malt based distillery)	48	
iii.	ETP tertiary (Ro Rejects)	223	
iv.	Boiler Blow down	42	<ul style="list-style-type: none"> ➤ Shall be treated in ETP followed by tertiary treatment in UF & RO. ➤ RO rejects to MEE. ➤ RO Permeate shall be used for dust suppression/ash conditioning and for onland for gardening within the premises.
v.	Cooling bleed off	184	
vi.	CO ₂ Recovery plant	12	
vii.	Domestic	16	
viii.	Fermentation Cleaning and washing purpose	93	Shall be recycled into the process
	Total	1518 KLD	

4. The industry shall upgrade the existing Spent Wash Treatment System, non-process ETP by providing to additional clarifiers.
5. The Spent lees generated from the distillation unit shall be recycled into the process.
6. All the units of ETP shall be constructed above ground level and all the treatment units shall be made impervious to prevent any seepages into the ground and avoid contamination of storm water.
7. Industry shall provide dedicated storm water drains and ensure that rain water does not get mixed with spent wash (Raw stillage) or other effluents. Similarly, there shall not be any discharge of effluents / washings / spent wash in the storm water drains.
8. The industry shall provide first runoff rain water & seepage collection pit with proper Bypass arrangement for free flow of subsequent rain water (24kl/acre).
9. The industry shall strictly maintain ZLD system in closed circuit system. The industry shall not use any flexible pipelines within the premises for transfer of effluents / wastewater. All the effluent conveying pipe lines shall be fixed. There shall not be any discharge / spillages of effluent within or outside the premises.
10. The industry shall ensure Zero Liquid discharge from the premises and see that no contaminated rain water joins the river.
11. Separate meters with necessary pipe-line shall be operated and maintained for assessing the quantity of water used for each of the purposes mentioned below:
 - a) Industrial cooling, boiler feed
 - b) Domestic purposes

- c) Processing, whereby water gets polluted and pollutants are easily bio-degradable
- d) Processing, whereby water gets polluted and the pollutants are not easily bio-degradable
12. The industry shall provide separate water meters for recording water consumption for process, washings, boiler feed & utilities and domestic purposes and also maintain daily records.
13. The industry shall provide digital flow meters for recording the quantity effluent generation, quantity of treated effluents at ETP outlet, MEE feed & MEE condensate utilized for cooling tower makeup / plantation.
14. The industry shall install IP camera with PAN, TILT Zoom, 5x or above focal length, with night vision capability at MEE as per CPCB norms and connect the data to the CPCB & TGPCB servers.
15. The industry shall install real time effluent quality monitoring system for outlet of ETP for the parameters: flow, pH, COD, BOD, TSS as per CPCB directions and connect the data to the CPCB & TGPCB.

Air (After expansion):

16. The proponent shall comply with the following for controlling air pollution.

S.No.	Details of Stack	As per Existing CFO vide order dated 19.10.2023		Proposed for expansion	
		Stack 1	Stack 2	Stack 3	Stack 4
a)	Attached to	boiler of capacity	DG Set	Boiler of capacity	DG Set
b)	Capacity	50.0 TPH	1500 KVA	16 TPH	1 x 1500 KVA + 500 KVA
c)	Fuel	coal / husk	HSD	coal / Bio-mass	HSD
d)	Stack height from GL	54 Mtrs.	$H = h + 0.2 (KVA)^{0.5}$ H = height of the stack from GL in mtrs. h = height of the building where DG set is installed, in mtrs.	--.	$H = h + 0.2 (KVA)^{0.5}$ H = height of the stack from GL in mtrs. h = height of the building where DG set is installed, in mtrs.
e)	Details of Air Pollution Control Equipment	ESP	Acoustic Enclosure	ESP	Acoustic Enclosure

f)	Standards to be complied	SPM – 115 mg/Nm ³	SPM – 115 mg/Nm ³	SPM – 115 mg/Nm ³	SPM – 115 mg/Nm ³	
		SO ₂ – 600 mg/Nm ³ . At 6% dry O ₂ , for solid fuel and 3% dry O ₂ for liquid fuel	--	--	SO ₂ – 600 mg/Nm ³ . At 6% dry O ₂ , for solid fuel and 3% dry O ₂ for liquid fuel	--
		NO _x – 600 mg/Nm ³ . At 6% dry O ₂ , for solid fuel and 3% dry O ₂ for liquid fuel	--	--	NO _x – 600 mg/Nm ³ . At 6% dry O ₂ , for solid fuel and 3% dry O ₂ for liquid fuel	--

17. As per EC, the industry shall provide Continuous online (24x7) monitoring system for stack emissions for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and TGPCB 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.
18. The proponent shall install closed shed to store the flyash/ Coal ash and dispose to the brick manufacturing units in the surrounding area. The industry shall take all necessary dust control measures to arrest fugitive emissions.
19. The industry shall install separate energy meters for recording energy consumption for APCE and maintain record for daily energy consumption.
20. Interlocking facility should be provided in the pollution control equipment so that in the event of the pollution control equipment not working, the Boiler shall stop automatically.
21. The industry shall monitor VOCs in Ambient Air with online VOC Analyzer and connect the data to TGPCB server.
22. The industry shall install 24 x 7 continuous emission monitoring system at Stack to monitor Stack emission and connect to SPCB and CPCB online server.
23. A sampling port with removable dummy of not less than 15 cm diameter shall be provided in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.
24. The generators shall be installed in a closed area with a silencer and suitable noise absorption systems. The ambient noise level shall not exceed 75 dB(A) during day time and 70 dB(A) during night time.
25. Industry shall take following mitigation measures to control air pollution, as proposed:
 - Raw material/fuel unloading areas to be provided with dust suppression system.

- All material transfer points to be provided with dust extraction system with bag filters.
- All the conveyers to be covered with sheets to prevent the fly-off of fugitive dust.
- All internal roads to be made pucca to prevent the fugitive dust to vehicular movement.
- No open storage of ash and the ash to be stored in silo only.

Solid Waste (After expansion):

26. The proponent shall comply with the following w.r.t Solid Waste generated after expansion:

Sl. no	Description of Hazardous waste with quantities	As per Existing CFO vide order dated 19.10.2023 & 12.07.2024	As per EC after expansion	Proposed for after expansion	Disposal
1.	ETP sludge	320 kg/day	322 kg/day	322 kg/day	Shall be used as manure within the premises.
2.	Organics waste (from Canteen)	0.01 TPD	0.01 TPD	0.01 TPD	The waste is collected and treated in compost pit and used as manure within plant premises.
3.	Drums and plastic cans	50 Nos/day	55 Nos/day	55 Nos/day	After complete detoxification shall be sold to outside agencies.
4.	Plastic waste	300 TPA	330 TPA	330 TPA	Shall be disposed to Authorized agencies.
5.	Ash	25,550 TPA	32,032 TPA	32,032 TPA	Sold to brick manufacturers & cement industry.
6.	Waste oil	2500 Ltr/Annum	3000 Ltr/Annum	3000 Ltr/Annum	Shall be disposed to authorized agencies.

27. The industry shall dispose DDGS (moisture 10%) in dry form only. There shall not be any odour nuisance in the premises

28. The industry shall dispose the fly ash/ Coal ash to the brick manufacturing units /cement industries on regular basis and maintain water sprinkling at ash storage area to control fugitive emissions.

29. The proponent shall comply with the provisions laid under Fly ash Notification No.S.O.763 (E), dt. 14.09.1999 and Amendments thereof.

30. The following rules and regulations notified by the MoEF&CC, GoI shall be implemented.

- Solid Waste Management Rules, 2016.
- Construction and Demolition Waste Management Rules, 2016.
- Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016.

- d) The Plastic Waste Management Rules, 2016.
- e) Batteries Waste Management Rules, 2022.
- f) E-Waste (Management) Rules, 2016 and its Amendment Rules, 2018.
- g) Bio-Medical Waste Management Rules, 2016 and its Amendment Rules, 2018.

Other Conditions:

31. Industry shall develop greenbelt in an area of 10.81 Acres (33%) with 10 m wide greenbelt on all sides along the boundary of the industry, as proposed.
32. The industry shall install the Digital Display Board showing the environmental data near the main gate of the industry.
33. The industry shall maintain records of raw material consumption and production.
34. The industry shall not cause odour nuisance in the surroundings.
35. System of leak detection and repair of pump / pipeline shall be installed in the plant and immediate response team shall be identified for preventive maintenance.
36. The industry shall provide separate energy meter for the pollution control systems.
37. The industry shall submit consolidated statement of production details, effluent generated & effluent treated, Hazardous / solid waste generated and disposed, records of operation of pollution control equipment on monthly basis to the concerned Regional Officer and records pertaining in this regards on daily basis (RG-I records, central excise returns etc) shall also be made available to the Board Officials during the inspection.
38. The proponent shall ensure that there shall not be any change in the process technology and scope of working without prior approval from the Board.
39. The industry shall comply with all the directions issued by the Board from time to time.
40. The industry shall provide CO2 Plant with all safety measures to collect the CO2 generated from the process and shall be bottled / made ice and utilized / sold to authorized vendors.
41. The proponent shall comply with all the directions issued by the Board from time to time.

**Sd/-
MEMBER SECRETARY**

To
**M/s. Allied Blenders and Distillers limited.,(Distillery unit),
(Formerly Shasta bio-fuels Pvt. Ltd.),
Sy. Nos. 689, 690/AA, 691/AA2, 692,
Rangapur (V), Pebbair (M), Wanaparthy District**

//T.C.F.B.O//

Joint Chief Environmental Engineer

E. G. V.



