



ANDHRA PRADESH POLLUTION CONTROL BOARD
Paryavarana Bhavan, APIIC Colony Road, Gurunanak Colony,
Autonagar, Vijayawada- 520 007.



CONSENT TO ESTABLISHMENT (EXPANSION) ORDER

Order No. 266APPCB/CTE/RO-KNL/HO/2025

Dt: 04-01-2026

Sub: APPCB – CTE - **M/s. TGV SRAAC Limited**, Sy.No.61/1, 2A, 2B, 2C1, 2C2, 2C3, 56/1, 58/1, 59/1, 60, 62B/2D2, 2C1/A2, 2C1/A3, 2C2/C, 2G/1, 2E, 2F, 1A, 1B, 62A, 62B, 63, 64, 70/C2, 72, 73, 27, 28 and 66 at Gondiparla (V), Kurnool (M), Kurnool District – **Consent for Establishment of the Board for Expansion** under Sec.25 of the Water (Prevention and Control of Pollution) Act, 1974 and under Sec.21 of the Air (Prevention and Control of Pollution) Act, 1981 - **Issued** - Reg.

- Ref:
1. MoEF&CC, GoI EC order dt.01.05.2018.
 2. CTE (CPM) order dt.29.07.2022.
 3. MoEF&CC, GoI EC Expansion order dt.02.01.2024 & 04.11.2024 for Phase-I.
 4. CTE (Expansion) order dt.05.03.2024.
 5. MoEF&CC, GoI EC Expansion order dt.29.10.2025.
 6. Industry's CTE (Expansion) application dt.08.09.2025 & 13.11.2025.
 7. ZO: Kurnool report dt.28.11.2025.
 8. CTE Committee meeting held on 03.12.2025.
 9. Board office Ir dt.: 20.12.2025.
 10. Industry submitted information on dt.23.12.2025 & dt.31.12.2025.

- M/s. TGV SRAAC Limited**, vide ref 7th cited, has submitted an application to the Board seeking
1. Consent to Establish (CTE) for Expansion in phased manner to produce the products with installed capacities as mentioned below, with an additional project cost of Rs. 710.0 Crores. Total cost after Expansion is Rs.2076.0 Crores.

Sl.No.	Products	As per EC's & CTE's (in TPD)	As per EC Expansion Order dated 29.10.2025 and Proposed capacity for expansion as per the application (in TPD)	Total capacity after Expansion (in TPD)
I.Chloro-Alkali Plant				
1.	Caustic Soda Lye (Or) Flakes Potassium Hydroxide Lye/Caustic Potash Lye (Or) Flakes (100% Basis)	1420	200	1620
2.	Liquid Chlorine	840	260	1100
By Products.				
3.	Hydrochloric Acid (100% Cl ₂ basis)	425.1	74.9	500
4.	Hydrogen Gas	3,97,592 m ³ /day	59,638 m ³ /day	4,57,230 m ³ /day
5.	Sodium Hypochlorite (100% Cl ₂ basis)	21	--	21
6.	Barium Sulphate	10	--	10
7.	Potassium Carbonate	50	--	50
8.	Sodium sulphate	14	--	14

9.	Calcium Hypochlorite (100% Cl ₂ basis)	10	--	10
10.	Calcium Sulphate	02	--	02
II. Chloromethanes Plant				
1	Methyl Chloride	1.68	0.9	2.58
2	Methylene Chloride	221.2	113.8	335
3	Chloroform	110.60	59.4	170
By Products.				
4	Carbon tetrachloride*	16.8	8.4	25.2
5	Hydrochloric Acid (100%)	65.8	34.4	100.2
	*As per the EC, * Carbon Tetrachloride (CCl ₄) generated will be sold as a feedstock to Authorized users/excess will be incinerated.			
III. Chlorodifluoromethane				
1	Chlorodifluoromethane (R22) only for feed stock purpose	12	--	--
	* Industry vide letter dt.31.12.2024 stated that and they are withdraw the products from the list of products for which CTO is obtained and requested to amend the CTO order excluding R22 with reference to the CTO order permitted to manufacture for R22(Chlorodifluoromethane).			
By Products				
2.	Hydrochloric acid (100%)	11.57 TPD	--	--
IV. Other Synthetic Organic Chemicals				
1.	Poly Tetra Fluoro Ethylene (PTFE)	--	40	40
2.	Chlorinated Polyvinyl Chloride (CPVC)	--	200	200
By Products (Other Chemicals)				
1.	HCl (100%) from PTFE	--	106	106
2.	Hexafluoro Propylene	--	1.66	1.66
• As per the EC Expansion order dt.29.10.2025 additional condition stipulated that “No PFOA, PFOS and hexafluoropropylene oxide dimer acid (HFPO-DA) shall be used in manufacturing process of PTFE”				
3.	HCl (100%) from CPVC	--	62.4	62.4
4.	Sulfuric Acid	--	34.1	34.1
5.	Sodium Hypochlorite (8%) from CPVC	--	33.4	33.4
6.	Low Grade PVC from CPVC	--	100	100
V. Captive Power Plant				
1	Captive Power Plant (Coal based)	106 MW	--	106 MW
2	Power generation (Furnace Oil) (Standby) #	31 MW	--	31 MW
	# As per the EC, # shall be kept as standby. Furnace oil shall not be used as fuel.			
VI. Oil and Fatty Acid Division				
1.	Oil and Fatty Acid Division (Non-EC Products)	597.5	--	597.5
2.	Poly Aluminium Chloride (PAC) (100% Basis)	--	100	100
3.	Hydrogen Peroxide (100% Basis)	--	100	100

2. As per the application, the above activity is to be located at existing premises at Sy.No. 61/1, 2A,

2B, 2C1, 2C2, 2C3, 56/1, 58/1, 59/1, 60, 62B/2D2, 2C1/A2, 2C1/A3, 2C2/C, 2G/1, 2E, 2F, 1A, 1B, 62A, 62B, 63, 64, 70/C2, 72, 73, 27, 28 and 66 at Gondiparla (V), Kurnool (M), Kurnool District, in an area of 376.58 Acres.

3. The above industry was inspected by the SEE, ZO, Kurnool and EE, RO, Kurnool on 26.11.2025 and found that the site is surrounded by

North : M/s SRHHL & M/s. Shivtek Industries Private Ltd,
 South : Gondiparla Village Road.
 East : Open lands belonging to the industry followed by M/s Sri Rayalaseema Paper Mill Ltd. (Sick unit) vacant land
 West : E Thandrapadu village to Gondiparla village road.

4. The Board, after careful scrutiny of the application, verification report of Zonal Officer, Kurnool, recommendation of the CTE Committee & information submitted by the industry, hereby issues **CONSENT TO ESTABLISHMENT (CTE) FOR EXPANSION** to the project under Section 25 of Water (Prevention & Control of Pollution) Act 1974 and Section 21 of Air (Prevention & Control of Pollution) Act, 1981 and the rules made there under. **This order is issued to manufacture the products as mentioned at para (1) only.**
5. **The industry shall comply with the information vide letter dt.23.12.2025 and undertaking letter dt.31.12.2025 submitted to the Board.**
6. The industry has obtained EC Expansion order vide order dt: 29.10.2025 for Expansion of Chlor-Alkali, Chloromethanes, and establishment of Poly Tetra Fluoro Ethylene (PTFE), Chlorinated Polyvinyl Chloride (CPVC), Poly Aluminium Chloride (PAC) (100% Basis) and Hydrogen Peroxide (100% Basis) plants with additional condition stipulated that "No PFOA, PFOS and hexafluoropropylene oxide dimer acid (HFPO-DA) shall be used in manufacturing process of PTFE".
7. The proponent shall not use perfluorooctanoic acid (PFOA), perfluorooctane sulphonate (PFOS), or hexafluoropropylene oxide dimer acid (HFPO-DA) in PTFE production.
8. The proponent shall ensure that PFOA, PFOS, and HFPO-DA are not generated at any stage of the PTFE manufacturing process.
9. **No trace of PFOA, PFOS, or HFPO-DA shall be present in the surroundings or in the effluent, even prior to treatment.**
10. **The proponent shall ensure that no R-22 (difluorochloromethane) is released into the atmosphere or into the effluent in any form. Appropriate R-22 sensors shall be installed at vents, to prevent any emissions during its formation and cracking.** The following control measures to be taken to avoid fugitive emissions: -
 - a. R22 is stored in liquid state under pressure at room temperature in day tanks under 8-10 bar pressure at room temperature. Dump tank provided in case of any emergency.
 - b. High pressure, high temperature and high weight alarms and trends provided in DCS control room to monitor and control the fugitive emissions.
 - c. Hydro testing and thickness testing will be done for all day tanks during annual shutdowns.
 - d. Short bolting/Long bolting on flanges avoided to prevent leakages from flanges.
 - e. Preventive maintenance schedules to follow to avoid fugitive emissions.
 - f. All transfer lines of seamless SS 304 provided with DCS operated control valve, PTs and temperature transmitters connected to DCS.
 - g. Transfer line joints are connected with tongue and groove flanges to avoid high pressure leakages.
 - h. Continuous training to operating people to be given to monitor and control the fugitive emissions.
 - i. Pneumatic pressure test for leakages and pressure hold test of transfer lines and

- storage tanks to be done during startup of plants after each shutdown.
- j. The plant will be operated in automation mode from DCS control room for better-controlled and efficient operations.
11. The industry has to install an additional VOC's meters (11 No's) for the proposed CTE expansion.
12. The industry has to provide the following Air pollution control measures for manufacturing of PTFE (Polytetrafluoroethylene):
- Gas detectors/gas sensors are arranged and connected to DCS control room to monitor to detect leakages from tanks.
 - High pressure, high temperature and high weight alarms and trends provided in DCS control room to monitor and control the fugitive emissions.
 - Short bolting/Long bolting on flanges to prevent leakages from flanges.
 - Continuous training to workers/operators to monitor and control the fugitive emissions
 - All transfer lines of seamless SS 304 provided with DCS operated control valve, PTs and temperature transmitters connected to DCS.
 - Pneumatic pressure test for leakages and pressure hold test of transfer lines and storage tanks to be done during startup of plants after each shutdown.
 - The plant will be operated in automation mode from DCS control room for better-controlled and efficient operations.
13. The industry has to install incinerator of capacity 525 Kgs/hr for the proposed CTE expansion.
14. The industry shall conduct Bio-accumulation studies in the surrounding areas of radius 2 kms from a reputed CSIR institute in the beginning stage and later at regular intervals.
15. This Consent Order now issued is subject to the conditions mentioned in Annexure.
16. This order is issued from pollution control point of view only. Zoning and other regulations are not considered.
17. **This order is valid for period of 7 years from the date of issue.**

Encl: Annexure.

S SRISARAVANAN, I.F.S
Member Secretary

To
M/s. TGV SRAAC,
Gondiparla Village, Kurnool Mandal,
Kurnool District.
E-Mail: sraaclab@rediffmail.com

Copy to: 1. The JCEE, Z.O., Kurnool for information.
2. The E.E., R.O, Kurnool for information and necessary action.

ANNEXURE

1. The proponent shall obtain Consent for Operation (CFO) from APPCB, as required Under Sec.25/26 of the Water (P&C of P) Act, 1974 and under sec. 21/22 of the Air (P&C of P) Act, 1981, before commencement of the trial runs.
2. The applicant shall provide separate energy meters to Effluent Treatment Plant (ETP), Sewage Treatment Plant (STP) and Air Pollution Control equipments to record energy consumed. An alternative electric power source sufficient to operate all pollution control systems shall be provided.
3. The industry shall construct separate storm water drains. No effluents shall be discharged in to storm water drains.

Water:

4. The source of water is Tungabhadra River through infiltration well and the maximum permitted water consumption after expansion shall not exceed the following capacity:

S. No	Description	Quantity (KLD)		
		As per CTE order dt.21.11.2024 (in KLD)	Proposed quantity as per application (in KLD)	Total quantity after CTE Expansion (in KLD)
1.	Chlor-Alkali Plant	3923.6	497.2	4420.8
2.	Chloromethanes & Chlorodifluoromethane	2236	553.8	2789.8
3.	Co-generation Power Plant	11435	(-) 1490*	9945
4.	Castor Oil and Fatty Acid Plant	379.2	--	379.2
5.	PTFE & CPVC	--	1709.4	1709.4
6.	PAC & Hydrogen Peroxide	--	120	120
	Total – I: Fresh Water	17973.8	1390.4	19364.2
Recycled Water				
1.	Chlor-Alkali Plant	879.5	110.4	989.9
2.	Chloromethanes	745.1	320	1065.1
3.	Co-generation Power Plant	604	--	604
4.	Castor Oil and Fatty Acid Plant	47.5	--	47.5
5.	PTFE & CPVC	--	575.5	575.5
6.	PAC & Hydrogen Peroxide	--	74.9	74.9
	Total – II: Recycled Water	2276.1	1080.8	3356.9
	Grand Total (I + II)	20249.9	2471.2	22721.1

* As per the EMP, water consumption is decreased due the installation of air-cooled condensers for 30MW co-generation power plant in place of water-cooling towers.

Separate meters shall be provided for assessing the quantity of water used for each of the

purposes mentioned above.

5. The maximum waste water generation shall not exceed the following:

Sl.No.	Purpose	As per CTE Order dt: 21.11.2024 (in KLD)	Proposed quantity as per application (in KLD)	Total quantity after Expansion (in KLD)
i. Chlor-Alkali Plant:				
a)	Process, washings & Gland Seal	266.6	37.3	303.9
b)	Cooling towers blow down	202.5	28.4	230.9
c)	Pump Gland Cooling			
d)	Domestic	93	--	93
	Total	562.1	65.7	627.8
ii. Chloromethanes				
a)	Cooling Towers blow down	159.6	39.9	199.5
b)	Scrubbers	56	14	70
c)	Domestic	21	--	21
	Total	236.6	53.9	290.5
iii. Co-Generation Power Plant: Nil				
a)	Floor washings	30	--	30
b)	Cooling Towers blow down/Chelating tower rejects/land seal	800	(-150)	650
c)	Boiler blow down/regeneration water	555	--	555
d)	Domestic	50	--	50
	Total	1435	(-150)	1285
iv. Oil & Fatty Acid plant				
a)	Process & washing Cooling Towers blow down/Chelating tower rejects/land seal	82.8	--	82.8
	Total	82.8	--	82.8
PTFE & CPVC				
a)	Process	--	960.6	960.6
b)	Cooling Towers	--	48	48
	Total		1008.6	1008.6
PAC & Hydrogen Peroxide				
a)	Process	--	78	78
	Total	--	78	78
	Grand total	2316.2	1056.2	3372.4

Treatment & disposal:

Existing treatment system:

Effluent source	Treatment provided	Mode of final disposal
Chloro Alkali Division	4 MLD of Effluent recycling plant. ETP consisting of equalization tank – 1600KL, clarifier – 677KL, Clear water storage tank – 242 KL, Dual multi-filtration – 130m ³ /hr, ultra filtration – 130 m ³ /hr & 2 Nos's reverse osmosis system – 100 Kl/hr	RO permeate reused for process water, utility make-up and greenbelt development. Rejects from R.O used for brine saturation / makeup. Zero Liquid Discharge (ZLD) shall be
Chloromethanes		
Power Plant		

	each, Second stage reject RO – 40 KI/hr. Overall recovery is 88-90%.	maintained.
Oil & Fatty Acid plant & Domestic	Provided ETP of capacity – 400m ³ /day consisting of Equalization tank / Oil trap (0.8 M x 10M x 2.0M), settling tank – (5.0 X 5.0 X .5M), DAF Aeration tank – (14.25 X 14.235 X 3M), Secondary clarifier – 8M Dia Holding tank – 15 KL, Sand filter & Activated Carbon Filter – 25m ³ /hr, Decanter	Sent to effluent treatment Plant (ETP-II) and treated water reused for greenbelt development.

Proposed treatment systems in Expansion:

*The industry proposed to utilize the existing Effluent recycling plant of capacity 4 MLD to cater the effluents generated from the Expansion also.

Effluent source	Treatment provided	Mode of final disposal
Chloro Alkali Division, Chloromethanes PTFE & CPVC PAC & Hydrogen Peroxide	4 MLD of Effluent recycling plant. ETP consisting of equalization tank – 1600KL, clarifier – 677KL, Clear water storage tank – 242 KL, Dual multi-filtration – 130m ³ /hr, ultra filtration – 130 m ³ /hr & 2/ Nos's reverse osmosis system – 100 KI/hr each, second stage reject RO – 40 KI/hr. Overall recovery is 88-90%.	RO permeate reused for process water, utility make-up and greenbelt development. Rejects from R.O used for brine saturation / makeup. Zero Liquid Discharge (ZLD) shall be maintained.

6. The effluents (domestic) shall be treated to the on land for irrigation standards, as stipulated under Schedule-VI of Environment (Protection) Rules, 1986, notified by Ministry of Environment and Forests, Government of India vide G.S.R.422 (E), dt.19.05.1993 and its amendments thereof.
7. The industry shall provide digital flow meters with totalizers at the inlet and outlet of treatment systems and maintain records. Also for RO permeate & RO rejects and the same shall be connect to APPCB website.
8. **For online continuous monitoring of effluent at outlet of ETP, the industry shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises and connect to APPCB / CPCB websites as per CPCB directions.**
9. Floor washings shall be admitted into the effluent collection system only and shall not be allowed to find their way in storm drains or open areas. All pipe valves, sewers, drains shall be leak proof.
10. Under any circumstances, the industry shall not be discharged any effluent contaminated runoff outside the premises or into any water bodies or aquifers.
11. The industry shall construct rain water runoff tank for collection of first flush storm water and to channelize to ETP for treatment.
12. During transfer of materials, spillages shall be avoided and garland drains shall be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.

Air:

13. The Air pollution Control equipment shall be installed along with the commissioning of the activity and shall comply with the following for controlling air pollution:

Additional stacks proposed in CTE expansion:

Sl. No.	Details of Stack	Stack 2
a)	Attached to:	LPG/Hydrogen gas fired incinerator
b)	Capacity	525 Kgs/hr
c)	Name of the Fuel:	Hydrogen gas
d)	Stack height above ground (m.)	30
e)	Air Pollution Control Equipment:	Scrubber
f)	Conc. of particulate matter mg/Nm ³	115 mg/Nm ³

14. The evaporation losses in solvents shall be controlled by taking the following measures:
- Chilled brine circulation shall be carried out to effectively reduce the solvent losses into the atmosphere.
 - Transfer of solvents shall be done by using pumps instead of manual handling.
 - Closed centrifuges shall be used to reduce solvent losses.
 - The reactor vents shall be connected with primary & secondary condensers to catch the solvent vapours.
 - All the solvent storage tanks shall be connected with vent condensers to prevent solvent vapours.
15. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be started until the control measures are rectified to achieve the desired efficiency. Performance assessment of pollution control devices/systems will be conducted annually.
16. **The volatile organic compounds (VOCs) / Fugitive emissions shall be controlled at 99.97% with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.**
17. Use of halogenated solvents shall be avoided and shall be phased out from process.
18. Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the polluted concentration, and the data to be transmitted to the CPCB and SPCB servers.
19. The industry shall properly maintain online continuous stack emission monitoring system (CEMS) and CAAQM stations along with web camera facilities as per the directions of CPCB. The industry shall ensure that they should be connected to APPCB / CPCB websites as per CPCB directions.
20. The industry shall install separate energy meters to air pollution control equipment and maintain records pertaining to operation and maintenance of the control equipment.

21. The industry shall provide online continuous stack emission monitoring system for the boilers having more than 10 TPH capacity.
22. 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.
23. The proponent shall ensure compliance of the National Ambient Air quality standards notified by MoEF, GoI vide notification No. GSR. 826 (E), dated. 16.11.2009 during construction and regular operational phase of the project at the periphery.
24. The generators shall be installed in a closed area with a silencers and suitable noise absorption systems. The ambient noise level prescribed by MoEF, GoI, Notification shall be complied.

Solid Waste:

25. The industry shall comply with the following for disposal of Solid waste:

Sl. No	Solid Waste generated from	Stream	As per CTE Exp order dt.21.11.2024	Quantity (Proposed in expansion)	Total qty after Expansion	Disposal Option
Chloro – Alkali Plant						
1	Sludge from Pretreatment of brine on dry basis	16.2 of Sch-1	42 TPD	0.32TPD	42.32 TPD	Shall be disposed to secured landfill within Plant premises
2.	Barium Sulphate	--	10 TPD	--	10 TPD	Shall be sold as By-Product
3.	Sodium Sulphate	--	12 TPD	2 TPD	14 TPD	Shall be sold as By-Product
Chloromethanes Plant						
1..	Calcium Chloride	16.2 of sch-1	0.06 TPD	0.03 TPD	0.09 TPD	Shall be disposed to their own secured Landfill within premises.
2.	Silica gel	16.2 of sch-1	0.051TPD	0.03 TPD	0.081 TPD	
3.	Bottom residue	20.3 of Sch -I	0.7 TPD	0.37 TPD	1.07 TPD	Shall disposed in incinerator within the premises
3.	Spent Sulfuric acid (75-80%)	---	16.7 TPD	13.27 TPD	29.97 TPD	Shall be sold as By - product
PTFE and CPVC						
1.	Bottom residue	20.3 of Sch -I	--	10.4	10.4	Shall disposed in incinerator within the premises
Utilities						
	Ash from Coal	---	762 TPD	--	762 TPD	Shall be sold to

1.						cement and brick manufactures
2.	Ash from Husk fired boiler	---	16.5 TPD	---	16.5 TPD	Shall be sold to cement and brick manufactures
3.	Sludge from Furnace Oil of DG sets	---	0.90 TPD	--	0.90 TPD	Shall incinerated along with Glycerin pitch in their captive incinerator
4.	Sludge from Effluent Treatment Plant	34.3 of Sch-I	0.32 TPD	0.442 TPD	0.762 TPD	Shall be disposed to their own secured Landfill within premises.
5.	Waste Oils	---	0.30 TPD	--	0.30 TPD	Shall reused as secondary fuel
6.	Used Batteries	---	35 TPD	--	35 TPD	Shall be sent to Authorized Recyclers.

26. The proponent shall place the chemical drums and / or any drums in a shed provided with concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system. The industry shall provide containers detoxification facility. Container & Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.
27. Proper handling, storage, utilization and disposal of all the solid waste should be ensured and to regular report regarding toxic metal content in the waste material and its composition, end use of solid / hazardous waste shall be submitted to the Regional office.
28. The industry shall register with Andhra Pradesh Environment Management Corporation Ltd (APEMCL) immediately for disposal of hazardous wastes.
29. The industry shall provide separate shed for storage of Hazardous waste along with leachate collection system.
30. The industry shall avoid the handling of drums for storage of solvents/ raw materials, shall use the tankers only.
31. The proponent shall comply with the environmental norms for synthetic organic chemicals as notified by Ministry of Environment, Forest and Climate Change, vide GSR 608 (E), dated 21.07.2010 under the provisions of the Environment (Protection) Rules, 1986.
32. The following rules and regulations notified by the MoE&F, GoI shall be implemented as applicable:
 - a. Regulation of Persistent Organic Pollutants Rules, 2018.
 - b. Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016 and amendments thereof.
 - c. Plastic Waste Management Rules, 2016.
 - d. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
 - e. Fly Ash Notification, 2016.
 - f. Batteries (Management & Handling) Rules, 2010.
 - g. E-Waste (Management) Rules, 2016.
 - h. Construction and Demolition waste Management Rules, 2016.
 - i. Solid Waste Management Rules, 2016.
 - j. Public Liability Insurance Act, 1991 and its amendments thereof.
 - k. Chemical Accidents Rules, 1996.

I. Ozone Depleting Substances (ODS) Rules of 2000.

Other Conditions:

33. **The industry shall comply with the information vide letter dt.23.12.2025 and undertaking letter dt.31.12.2025 submitted to the Board.**
34. The industry has obtained EC Expansion order vide order dt: 29.10.2025 for Expansion of Chlor-Alkali, Chloromethanes, and establishment of Poly Tetra Fluoro Ethylene (PTFE), Chlorinated Polyvinyl Chloride (CPVC), Poly Aluminium Chloride (PAC) (100% Basis) and Hydrogen Peroxide (100% Basis) plants with additional condition stipulated that "No PFOA, PFOS and hexafluoropropylene oxide dimer acid (HFPO-DA) shall be used in manufacturing process of PTFE".
35. The proponent shall not use perfluorooctanoic acid (PFOA), perfluorooctane sulphonate (PFOS), or hexafluoropropylene oxide dimer acid (HFPO-DA) in PTFE production.
36. The proponent shall ensure that PFOA, PFOS, and HFPO-DA are not generated at any stage of the PTFE manufacturing process.
37. No trace of PFOA, PFOS, or HFPO-DA shall be present in the surroundings or in the effluent, even prior to treatment.
38. The proponent shall ensure that no R-22 (difluorochloromethane) is released into the atmosphere or into the effluent in any form. Appropriate R-22 sensors shall be installed at vents, to prevent any emissions during its formation and cracking. The following control measures to be taken to avoid fugitive emissions: -
 - a. R22 is stored in liquid state under pressure at room temperature in day tanks under 8-10 bar pressure at room temperature. Dump tank provided in case of any emergency.
 - b. High pressure, high temperature and high weight alarms and trends provided in DCS control room to monitor and control the fugitive emissions.
 - c. Hydro testing and thickness testing will be done for all day tanks during annual shutdowns.
 - d. Short bolting/Long bolting on flanges avoided to prevent leakages from flanges.
 - e. Preventive maintenance schedules to follow to avoid fugitive emissions.
 - f. All transfer lines of seamless SS 304 provided with DCS operated control valve, PTs and temperature transmitters connected to DCS.
 - g. Transfer line joints are connected with tongue and groove flanges to avoid high pressure leakages.
 - h. Continuous training to operating people to be given to monitor and control the fugitive emissions.
 - i. Pneumatic pressure test for leakages and pressure hold test of transfer lines and storage tanks to be done during startup of plants after each shutdown.
 - j. The plant will be operated in automation mode from DCS control room for better-controlled and efficient operations.
39. The industry shall install an additional VOC's meters (11 No's) for the proposed CTE

expansion.

40. The industry shall provide the following Air pollution control measures for manufacturing of PTFE (Polytetrafluoroethylene):
 - a. Gas detectors/gas sensors are arranged and connected to DCS control room to monitor to detect leakages from tanks.
 - b. High pressure, high temperature and high weight alarms and trends provided in DCS control room to monitor and control the fugitive emissions.
 - c. Short bolting/Long bolting on flanges to prevent leakages from flanges.
 - d. Continuous training to workers/operators to monitor and control the fugitive emissions
 - e. All transfer lines of seamless SS 304 provided with DCS operated control valve, PTs and temperature transmitters connected to DCS.
 - f. Pneumatic pressure test for leakages and pressure hold test of transfer lines and storage tanks to be done during startup of plants after each shutdown.
 - g. The plant will be operated in automation mode from DCS control room for better-controlled and efficient operations.
41. The industry shall install incinerator of capacity 525 Kgs/hr for the proposed CTE expansion.
42. The industry shall conduct Bio-accumulation studies in the surrounding areas 2 kms from a reputed CSIR institutes.
43. The industry shall comply with the conditions stipulated in the EC Expansion Orders dt:02.01.2025, dt.04.11.2024 & 29.10.2025 issued by MoEF& CC, GoI, New Delhi.
44. The industry shall comply with the conditions stipulated in the CTO & HWA (Expansion) order dt: 16.07.2021 valid upto 31.05.2026.
45. The industry shall carry-out Environmental Audit for the land fill site of the industry as per the guidance document issued by CPCB for conducting Environmental Audit of Common/Captive Treatment, Storage and Disposal facilities and furnish the Audit report.
46. The industry shall submit the by-products disposed to Authorised Processors/ Recyclers for processing and reusing every month to the Regional Office. If the by-products are not sold, it shall be disposed as Hazardous waste either to TSDF or Pre-processors for Co-processing depending on the characteristics of the material through APEMC.
47. The industry shall ensure the compliance with Guidelines for Identification of Materials Generated from Industrial Processes as Wastes or By-products issued by CPCB under HoWM Rules 2016 on May 2019.
48. No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The proponent shall adhere to the notifications/ guidelines of the Government in this regard.
49. The industry shall comply with the Standard Operating Procedure (SoP) and Checklist of Minimal Requisite Facilities for recovery of Spent Solvent for Recovery of Solvent specified for Solvent Recovery Units issued by CPCB from time to time. The total cumulative losses of solvents shall not be more than 5% of the solvent on annual basis from storage inventory.
50. The industry shall install automatic leak detection system supported with hooters or alarm

system. Mock drills should be conducted at least twice a year.

51. "The industry shall comply with the industry specific standards with respect to emissions tank farm vents stipulated by the MoEF & CC, GoI, New Delhi vide Notification GSR541 (E), dt.06.08.2021."

S. No.	Details of process emissions	Emission Control system	Emission Standard
1.	HCl	Multi stage scrubbers in series.	35 mg/Nm ³
2.	NH ₃		30 mg/Nm ³
3.	Chlorine		15 mg/Nm ³
4.	Benzene		5 mg/Nm ³
5.	Toluene		100 mg/Nm ³
6.	Acetonitrile		1000 mg/Nm ³
7.	Dichloromethane		200 mg/Nm ³
8.	Xylene		100 mg/Nm ³
9.	Acetone		2000 mg/Nm ³

52. The industry shall display online data outside the main factory gate on quantity and nature of hazardous chemicals being used in the plant, water & air emissions and solid waste generated within the factory premises, as per Hon'ble Supreme Court order.
53. The industry shall submit risk assessment report covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
54. The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.
55. The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.
56. The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity / toxicity / flammability / explosive stored/handling in the premises as defined in the Management of Storage, Import of Hazardous Chemicals (MSIHC) Rules, 1989 and the details shall be furnished to the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.
57. The industry shall identify major accident hazard chemicals & list out the hazardous chemicals endangered to human health & environment and the details shall be furnished to the Factories Department and to the Regional Office, APPCB time to time duly certifying the same by the industry. Further the industry shall extend training to the working personnels while handling hazardous chemicals for prevention of accidents and necessary antidotes to ensure the safety, as per the MSIHC Rules, 1989.
58. The industry shall carryout calibration of safety equipments and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
59. The industry shall utilize DG power for captive consumption only & power shall not be supplied to grid and shall follow the amendments issued by MoEF & CC/CPCB from time to time on DG sets in respect of conditions & standards.

60. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Regional Office and Zonal Office of the Board.
61. 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.
62. The proponent shall comply with all the directions issued by the Board from time to time.
63. The proponent shall achieve 100% disposal of fly ash and bottom ash as per Fly Ash Notification issued by MOE&F, GOI vide S.O.2804 (E), dated 3.11.2009.
64. **The industry shall submit compliance to the conditions stipulated in the CTE orders to the concerned Regional Officer of APPCB every six months and shall upload the same at APPCB website viz., https://pcb.ap.gov.in/UI/Submission_Compliance_of_EC_CTE_CTO_Direction.aspx**
65. Concealing the factual data or submission of false information / fabricated data and failure to comply with any of the conditions mentioned in this order attracts action under the provisions of relevant pollution control Acts.
66. The Board reserves its right to modify above conditions or stipulate any additional conditions including revocation of this order in the interest of environment protection.
67. Notwithstanding anything contained in this conditional letter or consent, the Board hereby reserves its right and power Under Sec. 27(2) of Water (Prevention and Control of Pollution) Act, 1974 and Under Sec.21(4) of Air (Prevention and Control of Pollution) Act, 1981 to revoke the order, to review any or all the conditions imposed herein and to make such modifications as deemed fit and stipulate any additional conditions.
68. **The industry shall comply with the Technical suggestions at Chapter No. 7.3 & 7.4 for Hazardous Chemical handling industries by High Power Committee (HPC) of Govt. of Andhra Pradesh. The HPC report is available at www.ap.gov.in.**
69. 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 Andhra Pradesh 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.

S SRISARAVANAN, I.F.S
Member Secretary

To
M/s. TGV SRAAC,
Gondiparla Village, Kurnool Mandal,
Kurnool District.
E-Mail: sraaclab@rediffmail.com