



**RED CATEGORY  
CONSENT & HW AUTHORISATION ORDER**

**Consent Order No : 1473568/APPCB/KNL/KNL/CFO&HWA/HO/2022- 16/11/2022 - 616**

CONSENT is hereby granted for Operation under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules 2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

**M/s. TGV SRAAC Limited, (Change of Product Mix)**  
**Sy. No.61, 62A, 62B, 63&64,**  
**Gondiparla (V), Kurnool (M),**  
**Kurnool District.**  
**E-mail: sraaclab@rediffmail.com / sraaclab@tgvmail.net**

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i. **Out lets for discharge of effluents:**  
**Chloromethanes & Chlorodifluoro Methane section:**

Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of Disposal
1.	Cooling tower blow down	114	The industry shall treat the effluents in the Effluent Recycling Plant (ERP) including with two RO plants. The permeate quantity shall be recycled in to the process and the rejects shall be used for brine make up purpose in Chloro Alkali division.
2.	Scrubber	40	
3.	Domestic	15	After treatment, treated waste water shall be used for on land for gardening within the premises.
<b>Total:</b>		<b>169 KLD</b>	

**31 MW Power Plant:**

Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of Disposal
4.	Boiler blow down & Cooling tower bleed off- 180 KLD +	255 KLD	After treatment, shall be used Onland for irrigation duly meeting the Boards discharge standards.

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Washings DM plant & RO rejects – 75 KLD		
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**ii. Emissions from chimneys:**

S.No.	Source of Pollution	Quantity of Emissions at peak flow (m <sup>3</sup> /hr)
<b>Power plant:</b>		
1.	Stack attached to coal fired boiler of capacity – 110 TPH	---
<b>Chloro methane plant:</b>		
2.	Stack attached to LPG/Hydrogen gas fired incinerator of capacity – 343 Kgs/hr	---

**iii) HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 6 (2)]:**

M/s. TGV SRAAC Limited, Gondiparla (V), Kurnool (M), Kurnool District hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

• **HAZARDOUS WASTES WITH DISPOSAL OPTION:**

Sl. No	Solid Waste generated from	Stream	Quantity of Hazardous waste (after CPM)	Disposal Option
<b>Chloromethanes Plant</b>				
1.	Calcium Chloride	16.2 of sch-1	0.04 TPD	Proposed to be disposed to their own secured Landfill within premises.
2.	Silica gel	16.2 of sch-1	0.036 TPD	
3.	Bottom residue	20.3 of Sch -I	0.5 TPD	Is being incinerated on sight incinerator
4.	Spent Sulfuric acid (75-80%)	---	11.9 TPD	Sold as By - product
<b>Chlorodifluoromethane</b>				
1.	Calcium Fluoride	--	1.2 TPD	Disposed to their own secured Landfill within premises.
2.	Spent Sulfuric Acid (75%)	--	17.3 TPD	Sold as By - product
3.	Antimony Pentoxide	---	0.2 TPD	Recovered and Reused.

CFO&HWA order dated.16.09.2021 for Chloromethanes Plant with a validity upto 31.08.2026 stands cancelled from date of issue of this order. This consent is valid for manufacture of quantities of each product as mentioned below only:

S. No.	Name of the products	Quantity (TPD)
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<b>Chloro Methanes Plant:</b>		
1.	Methyl Chloride	1.2
2.	Methylene Chloride	158
3.	Chloroform	79
<b>By-Products:</b>		
4.	Carbon Tetrachloride	12
5.	Hydrochloric acid	47
	Total:	297.2
<b>Chlorodifluoromethane Plant:</b>		
1.	Chlorodifluoromethane (R22)	10
2.	Hydrochloric acid (100%)	8.27
<b>Thermal Power plant</b>		
1.	Electricity	31 MW* (From existing 45 MW (21+24MW) Coal based to 76 MW)

\*There shall not be any additional generation of Thermal Power. The existing 31 MW furnace oil gas based generator sets shall be kept as standby and the equivalent 31 MW shall be generated as coal based turbine.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made there under and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of Consent & Hazardous Waste Authorisation shall be valid for a period ending with the **31.08.2026**.

**VIJAY KUMAR GSRKR IAS, MEMBER SECY(GSRKRVK), O/o MEMBER SECRETARY-APPCB**

To  
 M/s. TGV SRAAC Limited, (Change of Product Mix)  
 Sy. No.61, 62A, 62B, 63&64,  
 Gondiparla (V), Kurnool (M),  
 Kurnool District.  
 E-mail: sraaclab@rediffmail.com / sraaclab@tgvmail.net

Copy to:

1. The JCEE, Zonal Office, Kurnool for information.
2. The EE, Regional Office, Kurnool for information and necessary action.

**SCHEDULE - A**

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through

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- chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. All the rules & regulations notified by Ministry of Law and Justice, Government of India regarding Public Liability Insurance Act, 1991 should be followed as applicable.
  4. The industry should put up two sign boards (6x4 ft. each) at publicly visible places at the main gate indicating the products, effluent discharge standards, air emission standards, hazardous waste quantities and validity of CFO and exhibit the CFO order at a prominent place in the factory premises.
  5. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
  6. The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.
  7. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
  8. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.
  9. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
  10. 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 Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
  11. The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
  12. The industry may explore the possibility of tapping the solar energy for their energy requirements.
  13. The industry should educate the workers and nearby public of possible accidents and remedial measures.

**SCHEDULE - B**

The industry shall comply with the following:

1. The industry shall provide additional closed shed for coal unloading from rail racks and shall be completed within six months.

**WATER POLLUTION:**

2. The source of water is infiltration wells from Thungabhadra river. The following is the

permitted water consumption:

Sl. No.	Purpose	Chloro Methanes & Chlorodifluoromethane Plant Quantity ( KLD)	Power plant Quantity ( KLD)
1.	Process – CMS	40	--
2.	Process – CDFM	420	--
3.	Scrubber	40	--
4.	Cooling makeup	1600	1850
5.	Boiler feed	--	640
6.	Domestic	15	--
	Total:	2115 KLD	2490 KLD

3. The industry shall provide separate meters with necessary pipe-line for Chloro Methane Plant, Chlorodifluoromethane Plant and Power plant for assessing the quantity.
4. The industry shall maintain digital flow meters with totalizers at inlet and outlet of RO plants to verify the quantity of effluent treated and operation hours and data transmitted to APPCB website without interruption.
5. Effluents shall not be discharged onland or any water bodies or aquifers or outside under any circumstances. Floor washings shall be admitted into effluent collection system only and shall not be allowed to find their way into storm water drains or open areas.
6. The industry shall construct rainwater runoff tank for collection and storage of first flush storm water. The industry shall maintain dry condition outside drains in non-rainy season.
7. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

Outlet No.	Parameter	Limiting Standards
3 & 4	pH	5.5 – 9.0
	Suspended Solids	200.0mg/l
	Oil & Grease	10.0 mg/l
	Biochemical Oxygen Demand (BOD)	30.0 mg/l

8. The industry shall maintain online effluent quality monitoring system at the outlet of ETP as per CPCB directions and same connected to APPCB website.

**AIR POLLUTION:**

9. The emissions shall not contain constituents excess of the prescribed limits mentioned below:

Chimney	Parameter	Emission Standards	Sampling Duration
1	Particulate matter	50 mg/Nm <sup>3</sup>	For 30 hours
	HCl	50 mg/Nm <sup>3</sup>	For 30 hours
	SO <sub>2</sub>	200 mg/Nm <sup>3</sup>	For 30 hours
	CO	100 mg/Nm <sup>3</sup>	For 30 hours
		50 mg/Nm <sup>3</sup>	For 24 hours
	Total Organic Carbon	20 mg/Nm <sup>3</sup>	For 30 hours

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HF	4 mg/Nm <sup>3</sup>	For 30 hours
NO <sub>x</sub> (NO and NO <sub>2</sub> expressed as NO <sub>2</sub> )	400 mg/Nm <sup>3</sup>	For 30 hours
Total dioxins and furans	0.1 ng TEQ/NM <sup>3</sup>	For 8 hours
Cd + Th + their compounds	0.05 mg / Nm <sup>3</sup>	For 2 hours
Hg and its compounds	0.05 mg /Nm <sup>3</sup>	For 2 hours
Cd+As+Pb+Co+Cr+Cu+Mn+Ni+V+V their compounds	0.50 mg/Nm <sup>3</sup>	For 2 hours

Note: All values corrected to 11% oxygen on a dry basis.

10.The industry shall comply with ambient air quality standards of PM<sub>10</sub> (Particulate Matter size less than 10 micro grams) - 100 micro gram/ m<sup>3</sup>; PM<sub>2.5</sub> (Particulate Matter size less than 2.5 micro grams) - 60 micro gram/ m<sup>3</sup>; SO<sub>2</sub> - 80 micro gram/ m<sup>3</sup>; NO<sub>x</sub> - 80 micro gram/m<sup>3</sup>, Ammonia – 400 micro gram/ m<sup>3</sup>; Benzene- 5 micro gram/ m<sup>3</sup>; outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009

Noise Levels: Day time - (6 AM to 10 PM) - 75 dB (A)

Night time - (10 PM to 6 AM) - 70 dB (A).

11.The industry shall comply with emission limits for DG sets of capacity upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Act Rules. In case of DG sets of capacity more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.

12.The industry shall provide a sampling port with removable dummy of not less than 15 cm diameter 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.

13.The industry shall properly operate and maintain the monitoring system to all the stacks / vents in the plant. Regular monitoring shall be carried out and report shall be submitted to the Regional officer.

14.The industry shall provide online stack monitoring systems to the major stacks viz., Boiler of capacity more than 10 TPH and connect the monitoring data to the website of APPCB and CPCB.

15.The industry shall provide separate energy meters to the air pollution control equipment and maintain the records properly.

**GENERAL:**

16.The industry shall not manufacture new products and not increase the capacity beyond the permitted capacity mentioned in this order.

17.The industry shall store the hazardous waste in the closed sheds.

18.All the internal roads shall be of cement concrete / bitumen to reduce fugitive dust due to the movement of vehicles.

19.The industry shall not cause any air pollution / odour nuisance in the surrounding environment.

20.The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:

i. Daily production details, RG-1 records and central Excise Returns.

ii. Quantity of Effluents generated treated and recycled.

iii. Log books for pollution control systems.

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21. 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.
22. The industry should submit mock drill report carried out at least once in six months, as required under the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989.
23. The industry shall develop thick green belt with native species to cover atleast 33% of the total area.
24. The industry shall comply with SoPs issued by CPCB time to time for all the wastes.
25. The industry should maintain good housekeeping within the plant premises.
26. The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CFO; and exhibit the CFO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order
27. The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishment (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.
28. The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Kurnool on yearly base.
29. Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
30. The Board reserves its right to modify above conditions or stipulate any further conditions and to take action including revoke of this order in the interest of protection of public health and environment.
31. The conditions stipulated are without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

**Special conditions:**

32. 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.
33. 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.
34. 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 the Regional Office, APPCB time to time duly certifying the same by the industry. Further, the industry shall extend training to the working personnel while handling hazardous chemicals for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.
35. The industry shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That

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- 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.
36. The industry shall inventory the hazardous wastes and its quantities stored within the industry premises as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016) and shall furnish the details to Regional Office, APPCB on a monthly basis duly certifying the same by the industry.
  37. The industry shall submit Risk analysis and risk assessment covering worst scenario clearly describing impact within the industry premises and outside the industry premises and emergency response system.
  38. 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.
  39. The industry shall submit the copy of the safety audit report and On-Site / Off Site Emergency Plans as applicable after being certified by the Factories Department to the APPCB, Regional Office from time to time, if the storage quantity of hazardous chemicals is equal to or, in excess of the threshold quantities specified in schedule 2 & 3 of MSIHC Rules, 1989.
  40. VOC meters with real time data transmission facility through internet of things (IoT) shall be installed near the production blocks and near the chemical storage tanks and link to the servers of APPCB and CPCB.
  41. The industries and isolated storages that are storing hazardous chemicals less than the threshold quantities mentioned under MSIHC Rules, 1989 shall submit safety certificate to the concerned Regional Office, APPCB.

**SCHEDULE – C**

*[See rule 6(2)]*

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR  
HANDLING HAZARDOUS WASTES]**

1. The authorized person shall comply with the provision of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization shall be produced for inspection at the request of an officer authorized by the State Pollution Control Board.
3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorization.
4. Any authorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of his authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorized comply with the provisions outline in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorized person to take prior permission of the State Pollution Control Board to close down the facility.
8. An application for the renewal of an authorization shall be made as laid down under



these Rules.

9. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.

10. The industry shall dispose of e-waste to the authorized recyclers only.

**Specific Conditions:**

11. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

12. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.

13. The industry shall maintain 7 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB.

14. The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form- 4 as per Rule 20(2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

**VIJAY KUMAR GSRKR IAS, MEMBER SECY(GSRKRVK), O/o MEMBER  
SECRETARY-APPCB**

To

M/s. TGV SRAAC Limited, (Change of Product Mix)

Sy. No.61, 62A, 62B, 63&64,

Gondiparla (V), Kurnool (M),

Kurnool District.

E-mail: sraaclab@rediffmail.com / sraaclab@tgvmil.net

Signed by Vijay Kumar

Gsrkr las

Date: 16-11-2022 07:12:02

Reason: Approved

