



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
D.No.33-26-14 D/2, Near Sunrise Hospital, Pushpa Hotel  
Centre,  
Chalamalavari Street, Kasturibaipet, Vijayawada - 520010

**RED CATEGORY**  
**EXPANSION OF CONSENT & AUTHORISATION ORDER**

**Consent Order No : 1274022/APPCB/KNL/KNL /CFO&HWA/HO/2022**  
06/05/2022

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**  
**(Expansion),**  
**Chlor-Alkali Plant, (Phase-II),**  
**(Formerly known as M/s Sree Rayalaseema Alkalies**  
**and Allied Chemicals Limited), Gondiparla (V),**  
**Kurnool (M), Kurnool District - 517541.**  
Email: 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:**

<b>Outlet No.</b>	<b>Outlet Description</b>	<b>Max Daily Discharge (for expansion)</b>	<b>Point of Disposal</b>
1	Process, washings	41 KLD	To be treated through new ERP and permeate quantity shall be recycled back into the process and rejects shall be used for Brine makeup purpose in chloroalkali division.
2	Cooling towers blow down / pump gland cooling	28 KLD	
3	Pump Gland Cooling		
4	Domestic wastewater	3 KLD	After treatment onland for gardening within the premises.

	<b>TOTAL</b>	<b>72 KLD</b>	
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**ii) Emissions from chimneys:**

<b>Chimney No.</b>	<b>Description of Chimney</b>
1.	Stack Attached to Salt furnace Capacity - 1 Nos X 55 Lakh K.Cal/hr
2.	Stack Attached to Salt furnace Capacity - 1 Nos X 55 Lakh K.Cal/hr
3.	Stack Attached to Thermo pack unit Capacity - 1 x 35 Lakh K.Cal./hr
4.	Stack Attached to DG Set of Capacity of 500 KVA

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

M/s. TGV SRAAC Limited (Formerly known as M/s. Sree Rayalaseema Alkalies and Allied Chemicals 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:**

<b>S. No.</b>	<b>Name of the Haz.waste</b>	<b>Stream</b>	<b>Quantity of Haz waste (for Expansion)</b>	<b>Disposal Option</b>
1.	Sludge from Pretreatment of brine on dry basis	16.2 of Schedule-I	7 TPD	Shall be disposed in the secured landfill within in the Plant premises

This consent is valid for manufacture of quantities of each product as mentioned below only.

<b>S.No.</b>	<b>Name of the products</b>	<b>Quantity for expansion (TPD)</b>
<b>Chloro-Alkali Plant:</b>		
1.	Caustic Soda Lye( or) Flakes Potassium Hydroxide Lye (or) Flakes ( 100% basis)	220
2.	Liquid Chlorine	83
3.	Hydrochloric Acid (100% basis)	92

4.	Hydrogen gas	198747 m3/day
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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 **28.02.2023**.

KANDAVALLI VENKATESWARA RAO, CEE(KVR), O/o CHIEF ENVIRONMENTAL ENGINEER-APPCB

**To**

**M/s. TGV SRAAC Limited (Expansion),  
Chlor-Alkali Plant, (Phase-II),  
(Formerly known as M/s Sree Rayalaseema Alkalies  
and Allied Chemicals Limited), Gondiparla (V),  
Kurnool (M), Kurnool District - 517541.  
Email: 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 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**

#### **WATER POLLUTION:**

1. The source of water is infiltration wells from Thungabhadra river. The following is the permitted water consumption:

<b>Sl. No</b>	<b>Purpose</b>	<b>TOTAL Quantity after expansion ( KLD)</b>
1.	Process	310
2.	Floor washings	5
3.	Pump Gland Cooling	15
4.	Cooling make up	213
5.	Domestic	5
	<b>Total</b>	<b>548</b>

2. The industry shall maintain properly the separate flow meters for assessing the quantity of water used for the above purposes and shall maintain the records
3. The effluent discharged shall comply with the tolerance limits mentioned below:

<b>Outlet</b>	<b>Parameter No.</b>	<b>Limiting Standards</b>
1	pH	5.50 - 9.00
	Total Suspended Solids (TSS at 103 - 1050C)	<100.00 mg/l
	Oil and Grease	10.00 mg/l
	Biochemical Oxygen Demand (BOD3 at 270C)	30.00 mg/l

4. The industry shall provide flow meters with totalizers at the inlet and outlet of Effluent Recycling Plant and at treated water utilization sources.
5. The industry shall not discharge any waste water outside the premises and shall maintain Zero Liquid Discharge system.
6. The 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 for treatment and disposal.

**AIR POLLUTION:**

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

<b>Chimney No.</b>	<b>Parameter</b>	<b>Emission Standards</b>
1 to 3	Particulate Matter	115 mg/Nm <sup>3</sup>

8. The industry shall regularly operate the air pollution control equipments provided to the existing boilers of capacity 42 TPH, 100 TPH & 110 TPH and meet the standards prescribed in the CFO& HWA orders.
9. The industry shall comply with ambient air quality standards of of PM10 - 100 micro grams/ m<sup>3</sup>; PM2.5 - 60 micro grams/ m<sup>3</sup>; SO<sub>2</sub> - 80 micro grams/ m<sup>3</sup>; NO<sub>x</sub> – 80 micro grams/m<sup>3</sup>, (day average standards).

The industry shall comply with National Ambient Air Quality Standards stipulated in CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 and also the

Noise Levels: Day time (6 AM to 10 PM) - 75 dB (A)  
 Night time (10 PM to 6 AM) - 70 dB (A)

10. 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.

**GENERAL:**

11. The industry shall not manufacture any product, other than those mentioned in this order, without CFE & CFO of the Board. The industry shall not increase the capacity beyond the permitted capacity mentioned in this order, without

- obtaining CFE & CFO of the Board.
12. The industry shall install and operate multi stage scrubbers for scrubbing of process emissions at all emission sources. The details of chemicals consumption used in the scrubber should be recorded and kept accessible for the inspecting officials of the Board.
  13. The industry shall regularly operate scrubbers for scrubbing of Chlorine emissions generated from cell house, dechlorination unit, chlorine liquefaction & chlorine storage and filling areas of chloro alkali division.
  14. The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:
    - a. Daily production details (ER-1 Central Excise Returns).
    - b. Characteristics of effluents and emissions.
    - c. Quantity of Effluents generated, evaporated in MEE, recycled/reused.
    - d. Log Books for pollution control systems.
    - e. Hazardous/non hazardous solid waste generated and disposed.
    - f. Manifest copies of effluents / hazardous waste.
    - g. Inspection book.
  15. The industry shall comply with the Task Force directions issued by the Board from time to time.
  16. The industry shall comply with the conditions stipulated in the CFE orders dt. 23.05.2018 and 10.02.2022.
  17. The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishments (CFE) and Consent for Operation (CFO) through website i.e., <https://pcb.ap.gov.in> by 1<sup>st</sup> of January and 1<sup>st</sup> 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 NABL accredited third party.

**Special Conditions:**

20. The industry shall possess valid NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) and submit a copy at concerned Regional Office, APPCB.
21. The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity/toxicity/flammability/ explosive materials stored/handling in the premises as defined in the 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.
22. 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 personnel's while handling hazardous chemicals for prevention of accidents and necessary antidotes to ensure the safety, as per the MSIHC Rules, 1989.
23. 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.

24. 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.
25. The industry shall inventorize 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 monthly basis duly certifying the same by the industry.

**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.

**Specific Conditions:**

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

Rules, 2016.

11. 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.
12. 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.
13. 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.

KANDAVALLI VENKATESWARA RAO, CEE(KVR), O/o CHIEF ENVIRONMENTAL ENGINEER-APPCB

**To**

**M/s. TGV SRAAC Limited (Expansion),  
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