



ANDHRA PRADESH POLLUTION CONTROL BOARD
D.No.33-26-14D/2, Near Sunrise Hospital, Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet, Vijayawada – 520 010
Phone. No.0866-2463200, Website : <https://pcb.ap.gov.in/>

RED CATEGORY

RENEWAL OF CONSENT & AUTHORISATION ORDER

Consent Order No : APPCB/KNL/KNL /16332/ CFO&HWA/HO/ 2021- 16/07/2021

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)
(Formerly known as M/s SreeRayalaseemaAlkalies and Allied Chemicals Limited),
Gondiparla (V), Kurnool (M), Kurnool District

(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:

Outlet No.	Outlet Description	Max Daily Discharge	Point of Disposal
1	Process, washings & Gland Seal	53 KLD	The industry shall treat the effluents in ETP, after treatment in the ETP (300 KLD) of Chloro Alkali Division, the treated effluents shall be further treated in the UF-RO plant and the RO permeate shall be recycled into the process and RO Rejects shall be utilized for brine makeup.
2	Cooling towers blow down	35 KLD	
3	Pump Gland Cooling		
4	Domestic wastewater	5 KLD	Septic tank followed by soak pit

ii) Emissions from chimneys: Nil

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

M/s. TGV SRAAC Limited (Formerly known as M/s SreeRayalaseemaAlkalies 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:**

S. No.	Name of the Haz.waste	Quantity of Haz waste	Stream	Disposal Option
1.	Sludge from Pretreatment	9 TPD	16.2 of	Shall be disposed in the secured

of brine on dry basis		Schedule-I	landfill within in the Plant premises
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This consent is valid for manufacture of quantities of each product as mentioned below only:

S.No.	Name of the products	Quantity (TPD)
1. 1	Caustic Soda Lye(or) Flakes	280
	Potassium Hydroxide Lye(or) Flakes (100% basis)	
2.	Liquid Chlorine	217
3.	Hydrochloric Acid (100% basis)	35
4.	Sodium Hypochloride (100% C12 basis)	5
5.	Barium Sulphate	5
6.	Sodium Sulphate	10

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 **31.05.2026**

DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF ENVIRONMENTAL ENGINEER4-APPCB

To

M/s. TGV SRAAC Limited (Expansion)

(Formerly known as M/s SreeRayalaseemaAlkalies and Allied Chemicals Limited), 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 Environmental Engineer, 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

1. The Board vide order dated 07.08.2018 issued CFO (Expansion) to the industry to manufacture Chlor-Alkali Chemicals i.e., Caustic Soda lye (or) Flakes or Potassium Hydroxide Lye (or) Flakes (100% basis) – 280 TPD, Barium Sulphate – 5 TPD and Sodium Sulphate – 10 TPD which was valid upto 31.05.2019 and the validity of CFO (Expansion) was extended through auto renewal on 15.04.2019 for a period upto 31.05.2021. The industry also obtained CFO (amendment) on 28.08.2018 for inclusion of Liquid Chlorine – 217 TPD, Hydrochloric Acid (100% basis) – 35 TPD, Sodium Hypochloride (100% C12 basis) – 5. Now the industry applied for renewal of CFO (Expansion), for a period upto 31.05.2026, for a total project cost of Rs. 109.6 Crs, with a total area of 376.58 acres. The issue of CFO was placed in the CFO committee meeting held on 05.05.2021 and the committee observed 6 non-compliance. The committee recommended to issue Renewal of CFO & HWA (Expansion) order to the industry for a period up-to 28.02.2026, so as to tally the date with the existing CFO order, with time bound conditions for the non-compliances, subject to submission of Bank Guarantee of Rs. 2 Lakhs towards compliance of time bound conditions for the following non-compliances: 1) As informed by the industry, the industry shall apply

CFE & CFO of the Board for the new salt furnaces 55 lakhs K.cal/hr x 2 Nos. (Fuel-Hydrogen), Thermo pack unit – 20 Lakh K.Cal./hr& DG Set of Capacity – 500 KVA, by 12.05.2021 and 2) As informed by the industry, the industry shall install fluorescent wind vane at the highest point in the industry premises so as to escape, chlorine leakages occurs (if any), in the opposite direction to avoid adverse impacts on the workers and surrounding residents, by 05.06.2021

2. The industry shall comply with the following conditions within time limits stipulated, failing which the bank guarantee of Rs. 2 lakhs submitted by the industry will be forfeited without any notice:
 - i. The industry has installed new salt furnaces 55 lakhs K.cal/hr x 2 Nos. (Fuel-Hydrogen), Thermo pack unit – 20 Lakh K.Cal./hr& DG Set of Capacity – 500 KVA in addition to the air pollution sources permitted in the CFO order dated.26.02.2014 and the industry has not obtained CFE and CFO of the Board. The industry shall obtain CFE & CFO of the Board for the new salt furnaces 55 lakhs K.cal/hr x 2 Nos. (Fuel- Hydrogen), Thermo pack unit – 20 Lakh K.Cal./hr& DG Set of Capacity – 500 KVA, immediately.
 - ii. The industry shall install fluorescent wind vane at the highest point in the industry premises so as to escape, in the opposite direction to avoid adverse impacts on the workers and surrounding residents, in case of any chlorine leakages occurs. As informed by the industry, the industry shall install fluorescent wind vane at the highest point in the industry premises so as to escape, chlorine leakages occurs (if any), in the opposite direction to avoid adverse impacts on the workers and surrounding residents, immediately.
3. On 12.04.2021, the Regional office, Kurnool verified the Real Time Data generated online continuous Effluent & Emission Monitoring Systems pertaining to M/s.TGV SRAAC Ltd., from website of appcb.glensserver.com to know the HCL & Chlorine emission values for the last one year i.e., from 01.01.2020 to 12.04.2021, As per the data captured from this website, it is noted that, from 01.01.2020 to 12.04.2021, with regard HCL emission, the data displayed only in 7 months and with regard to total chlorine emissions no values were recorded in Real time data and showing as NA for last one year four months. The industry has not justified the reasons for no display of values and also industry has not rectified lapses related to process emissions monitoring system. The industry shall maintain the process emissions monitoring system, ensure the data will always be displayed properly and submit the compliance report to RO, Kurnool
4. Not complied with the condition of “The industry shall not store the treated/untreated effluents in the unlined lagoons and to empty the unlined lagoons and dismantle the unlined lagoons within one month” and the industry storing the unlined lagoons belongs to their sister concern unit namely M/s SRHHL. The industry shall not store the treated/untreated effluents in the unlined lagoons. The updated compliance report on emptying and dismantle of unlined lagoons shall be submitted to RO and ZO Kurnool.
5. The industry has to take up the following mitigation measures (Where significant adverse effects are identified, description of the remedial measures to be taken to avoid, reduce those effects):
 - i. The industry has to take up regular preventive maintenance to check the functioning of chlorine sensors and also install additional sensors to identify the fugitive emissions/ leakages of chlorine and HCL within the plant premises & outside the plant premises i.e., near the habitation and maintain the records for the same.

- ii. The industry shall install leak proof pipe valves etc.,to avoid leakages and shall carryout regular preventive measures.
- iii. The industry shall operate the 4 MLD Effluent Recycling plant continuously and effectively to cater all the effluents generated from Chloro alkali, Oil & fatty acid division & Power plant and shall not discharge any waste water to outside the factory premises as Tunghabadra river is at distance of 600mtrs.
- iv. Chemical drums and other drums shall be stored in closed roof and on the concrete platform only. The Platform shall be provided with sufficient dyke wall and effluent collection system.
- v. The industry shall give more emphasis on improving housekeeping all around the unit.
- vi. The industry shall implement all the recommendations made in the Safety Audit report and other required measures to avoid accidents, Environmental Damages.
- vii. The industry shall update the onsite and offsite emergency plans, risk analysis reports periodically and shall comply the MSIHC Rules 1989, carryout calibration of safety equipments and leak detection system at regular intervals and shall certify the same with Factories Department and submit the certified copies to the Board office, Zonal and Regional offices on regular basis.

The industry shall take up the above mitigation measures (Where significant adverse effects are identified, description of the remedial measures to be taken to avoid, reduce those effects) and submit the compliance report to RO and ZO, Kurnool

- 6. Not complied with the condition of “The Expert committee will study the issue of transferring waste stored in the pits to the newly constructed landfill. The industry shall comply with the recommendations of the committee” and no expert Committee was visited the industry to study the issue of transferring waste stored in the pits to the newly constructed landfill. As per the records industry has not submitted any compliance report with regard to the committee and its recommendations. The Expert committee will study the issue of transferring waste stored in the pits to the newly constructed landfill. The industry shall comply with the recommendations of the committee. The industry shall submit compliance report with regard to the committee and its recommendations to RO, Kurnool.
- 7. Not uploaded the six monthly compliance reports in APPCB Website. The industry shall upload the six monthly compliance reports in APPCB Website, immediately and thereafter once in six months.

WATER POLLUTION:

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

Sl. No	Purpose	Quantity (KLD)
1.	Process	390
2.	Floor washings	5
3.	Pump Gland Cooling	25
4.	Cooling make up	275
5.	Domestic	5
	Total	700

- 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 industry shall provide flow meters with totalizers at the inlet and outlet of Effluent Recycling Plant and at treated water utilization sources.

4. The industry shall not discharge any waste water outside the premises and shall maintain Zero Liquid Discharge system.
5. 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:

6. 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.
7. The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10mm) - 100 mg/ m³; PM2.5 (Particulate Matter size less than 2.5 mm) - 60 mg/ m³; SO₂ - 80 mg/ m³; NO_x - 80 mg/m³, 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)

8. 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:

9. 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.
10. 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.
11. The industry shall regularly operate scrubbers for scrubbing of Chlorine emissions generated from cell house, de-chlorination unit, chlorine liquefaction & chlorine storage and filling areas of chloro alkali division.
12. 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.
13. The industry shall submit compliance report on the conditions mentioned in the consent order every 6 months to the Regional Office/Zonal Office.
14. The industry shall comply with the Task Force directions issued by the Board vide order dt. 18.12.2014 & 24.02.2015:
15. The industry shall comply with all the conditions stipulated in the CFO & HWA

order dt. 26.02.2014 and shall submit the updated compliance report to RO and ZO Kurnool, immediately.

- 16.The industry shall comply with the conditions stipulated in the CFE order dt. 23.05.2018.

SCHEDULE – C

[See rule 6(2)]

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

1. The operator should follow the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016 notified by the Ministry of Environment & Forests, Government of India.
2. The industry shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
3. 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.
4. The industry shall maintain 6 copy manifest system for transportation of waste generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.
5. The industry shall maintain proper records for Hazardous Wastes stated in Authorisation in FORM-3 and file annual returns in Form- 4 as per Rule 20(2) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.

DR. B.MADHUSUDHANA RAO, JCEE(MSRB), O/o JOINT CHIEF
ENVIRONMENTAL ENGINEER4-APPCB

To

M/s. TGV SRAAC Limited (Expansion)

**(Formerly known as M/s SreeRayalaseemaAlkalies and Allied Chemicals Limited),
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