



**ANDHRA PRADESH POLLUTION CONTROL BOARD**  
**Paryavaran Bhavan, APIIC Colony Road,**  
**Gurunanak Colony, Autonagar, Vijayawada-**  
**520007**



Website: <https://pcb.ap.gov.in/>

## **RENEWAL OF CONSENT TO OPERATE & AUTHORIZATION ORDER**

**Consent Order No:1274022/APPCB/KNL/KNL/CTO&HWA/HO/2026 18-06-2026**

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 ,**  
**Gondiparla (V), Kurnool (M),**  
**Kurnool District.**  
**Email: [sraaclab@rediffmail.com](mailto:sraaclab@rediffmail.com) /**  
**[sraaclab@tgvmail.net](mailto: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>S. No.</b> | <b>Outlet description</b>                                   | <b>Max Daily Discharge KLD</b> | <b>Treatment unit details</b>                                                                                                                                                                                                                                                                                                                                       | <b>Point of disposal</b>                                                                                                                                                                                              |
|---------------|-------------------------------------------------------------|--------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|               | <b>Chlor Alkali Plant:</b>                                  |                                |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |
| 1.            | Process, floor washings, Pump gland cooling, cooling towers | 403.1 KLD                      | The industry has provided 4 MLD of Effluent Treatment consisting of equalization tank – 1600 KL, clarifier – 677 KL, Clear water storage tank – 242 KL, Dual multi-filtration – 130 m <sup>3</sup> /hr, ultra filtration – 130 m <sup>3</sup> /hr & 2 No's reverse osmosis system - 100 Kl/hr each, Second stage reject RO – 40 Kl/hr. Over all recovery is 88-90%. | Shall be treated in the existing ZLD system. The RO permeate shall be reused as process water in place of river water utility makeup and RO rejects shall be used for Brine makeup purpose in Chloro Alkali division. |
|               | <b>Chloromethanes plant</b>                                 |                                |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |
| 2.            | Cooling tower blow down & scrubber blow down                | 211.6 KLD                      |                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                       |

|   |                                                                                                                                                            |               |                                                                                                                                                                      |                                                                                                                                                                                                                                                         |
|---|------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|   | <b>Captive Power plant</b>                                                                                                                                 |               |                                                                                                                                                                      |                                                                                                                                                                                                                                                         |
| 3 | Process and washings, Cooling tower blow down/chelating tower rejects/gland seal, Boiler blow down/regeneration water, DM plant for generation /RO rejects | 1005 KLD      | Acid dosing tank, Caustic dosing tank, Neutralization tank & treated effluent tank                                                                                   | After treatment, the treated waste water of 330KLD is being recycled back into the process for brine make up and the remaining 420 KLD is being used for on land for gardening and ash quenching / or processed through New ERP and recycling the water |
|   | <b>Castor oil &amp; Fatty Acid Plant</b>                                                                                                                   |               |                                                                                                                                                                      |                                                                                                                                                                                                                                                         |
| 4 | Process and washings, Cooling tower blow down/chelating tower rejects & Boiler blow down                                                                   | 170 KLD       | The industry has provided ETP of capacity – 400 KLD consisting of Equalization tank / Oil trap, settling tank, DAF, Aeration tank, Secondary clarifier, Holding tank | After treatment in ETP, the treated effluents are being used on land for irrigation, within the premises                                                                                                                                                |
| 5 | Domestic waste water                                                                                                                                       | 111 KLD       | Sand filter & Activated Carbon Filter and Decanter                                                                                                                   |                                                                                                                                                                                                                                                         |
|   | <b>Total:</b>                                                                                                                                              | <b>1900.7</b> |                                                                                                                                                                      |                                                                                                                                                                                                                                                         |

**ii) Emissions from chimneys:**

| Chimney No. | Description of Chimney                                                        |
|-------------|-------------------------------------------------------------------------------|
| 1.          | Stack Attached to coal fired boiler of capacity – 110 TPH                     |
| 2.          | Attached to Coal fired boiler – 100 TPH                                       |
| 3.          | Attached to Coal fired HLL boiler of capacity – 42 TPH                        |
| 4.          | Attached to 20 TPH Hydrogen Gas Fired Boiler                                  |
| 5.          | Stack Attached to LPG/Hydrogen gas fired incinerator of capacity – 343 Kgs/hr |
| 6.          | Attached to Oil / H <sub>2</sub> fired Thermax boiler – 4 TPH                 |
| 7.          | Attached to Oil fired boiler of capacity – 3 TPH                              |
| 8.          | Attached to Oil fired AIEC boiler – 3 TPH                                     |
| 9.          | Attached to 4 x 3 TPH WHRB attached to D.G - 4 x 6.2 MW                       |
| 10.         | Attached to Salt furnace – 55 Lakh K.Cal/hr x 2 Nos                           |
| 11.         | Attached to Salt furnace – 15 Lakh K.Cal/hr x 2 Nos.                          |
| 12.         | Attached to Thermo pack unit – 35 Lakh K.Cal./hr.                             |
| 13.         | Attached to Thermo pack unit – 20 Lakh K.Cal./hr.                             |
| 14.         | Tail vents (Chlorine & HCl)                                                   |

|     |                          |
|-----|--------------------------|
| 15. | D.Gset – 500 KVA – 3 Nos |
|-----|--------------------------|

**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:**

| S. No. | Name of the Haz. waste                                                                                | Stream             | Quantity | Disposal Option                                                                                                                                                                                               |
|--------|-------------------------------------------------------------------------------------------------------|--------------------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1.     | Process (brine sludge)                                                                                | 16.3 of Schedule-I | 37 TPD   | Shall send to onsite secured landfill complying with CPCB guidelines (as landfillable waste)                                                                                                                  |
| 2.     | ETP (Sludge)                                                                                          | 35.3 of Schedule-I | 75.3 TPA |                                                                                                                                                                                                               |
| 3.     | Glycerin Pitch (generated in Oils & Fat division)                                                     | 36.1 of Schedule-I | 10 TPD   | Incineration in furnace followed by Boiler at temperature above 1050 <sup>0</sup> C / Shall be routed through M/s. APEMCL, so as to send to authorized cement plants for co-processing (as utilisable waste). |
| 4.     | Sulphur Sludge/Sulphur containing residue generated in M/s. Sree Rayalaseema Hi-Strength Hypo Limited | 17.1 of Schedule-I | 157 TPA  | Shall be disposed in secured land fill facility of M/s. TGV SRAAC Limited through M/s. APEMCL.                                                                                                                |

• **Hazardous waste with Recycling option:**

|    |                          |                    |           |                                                                                                                                                                |
|----|--------------------------|--------------------|-----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Process (Spent Catalyst) | 36.2 of Schedule-I | 1 TPD     | Shall be routed through M/s. APEMCL, so as to sent back to the manufacturers for reprocessing (as recyclable waste) / TSDF, Nellore (as landfillable waste).   |
| 2. | Process (Spent earth)    | 36.2 of Schedule-I | 2 TPD     |                                                                                                                                                                |
| 3. | Fatty acids & residue    | 36.1 of Schedule-I | 7.5 TPD   |                                                                                                                                                                |
| 4. | Furnace oil sludge       | 5.2 of Schedule-I  | 31.68 TPA | Incineration in furnace followed by boiler at a temperature above 1050 <sup>0</sup> C / Shall be routed through M/s. APEMC, so as to send to authorized cement |

|    |                |                   |               |                                                                                                                  |
|----|----------------|-------------------|---------------|------------------------------------------------------------------------------------------------------------------|
|    |                |                   |               | plants for co-processing (as utilisable waste).                                                                  |
| 5. | Waste oil      | 5.1 of Schedule-I | 3.0 TPA       | Shall be routed through M/s. APEMCL, so as to send to Authorised recyclers / re-processors (as recyclable waste) |
| 6. | Used Batteries | 17 of Schedule-IV | 150 Nos/annum | Shall be disposed to authorized dealers on buy back basis. (as recyclable waste)                                 |

• **Chloromethanes Plant:**

|    |                  |                    |           |                                                              |
|----|------------------|--------------------|-----------|--------------------------------------------------------------|
| 1. | Calcium Chloride | 16.2 of Schedule-I | 0.06 TPD  | Shall dispose to their own secured Landfill within premises. |
| 2. | Silica gel       | 16.2 of Schedule-I | 0.051 TPD |                                                              |
| 3. | Bottom residue   | 20.3 of Schedule-I | 0.7 TPD   | Shall incinerate in the site incinerator.                    |

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

| Sl. No.                          | Products                                                                                            | Quantity (TPD)  |
|----------------------------------|-----------------------------------------------------------------------------------------------------|-----------------|
| <b>I. Chloro-Alkali Plant:</b>   |                                                                                                     |                 |
| 1.                               | Caustic Soda Lye (Or) Flakes<br>Potassium Hydroxide Lye/Caustic Potash Lye (Or) Flakes (100% Basis) | 1220            |
| 2.                               | Liquid Chlorine                                                                                     | 720             |
| 3.                               | Hydrochloric Acid (100% Cl <sub>2</sub> basis)                                                      | 369.05          |
| 4.                               | Hydrogen Gas                                                                                        | 2,79,996 m3/day |
| 5.                               | Potassium Carbonate                                                                                 | 50              |
| <b>By Products:</b>              |                                                                                                     |                 |
| 6.                               | Sodium Hypochlorite (100% Cl <sub>2</sub> basis)                                                    | 18              |
| 7.                               | Barium Sulphate                                                                                     | 10              |
| 8.                               | Sodium sulphate                                                                                     | 18              |
| 9.                               | Calcium Hypochlorite (100% Cl <sub>2</sub> basis)                                                   | 10              |
| 10.                              | Calcium Sulphate                                                                                    | 02              |
| <b>II. Chloromethanes Plant:</b> |                                                                                                     |                 |
| 1                                | Methyl Chloride                                                                                     | 1.68            |
| 2                                | Methylene Chloride                                                                                  | 221.2           |
| 3                                | Chloroform                                                                                          | 110.60          |
| <b>By Products.</b>              |                                                                                                     |                 |
| 4                                | Carbon tetrachloride                                                                                | 16.8            |
| 5                                | Hydrochloric Acid (100%)                                                                            | 65.8            |
| 6                                | Spent Sulfuric acid (75%-80%)                                                                       | 16.7            |
| <b>III. Captive Power Plant</b>  |                                                                                                     |                 |
| 1.                               | Electricity (captive power generation - (Coal based)                                                | 76 MW           |

|                                     |                                                                                            |                                  |
|-------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------|
| 2.                                  | Captive power plant (D.G sets)                                                             | 24.8 MW (4x6.2 MW)<br>(Stand by) |
| <b>IV. Oil and Fatty Acid Plant</b> |                                                                                            |                                  |
| 1.                                  | Hydrogenated Castor oil                                                                    | 100                              |
| 2.                                  | a. 12-Hydroxy Stearic Acid (or)<br>b. Methyl 12-hydroxy stearate (or)<br>c. Ricinolic Acid | 60                               |
| 3.                                  | Dehydrated Castor oil                                                                      | 10                               |
| 4.                                  | NN BIS Amide                                                                               | 05                               |
| 5.                                  | Bio-Diesel                                                                                 | 10                               |
| 6.                                  | a. Glycerine (crude)<br>b. Glycerine refined and chemically pure                           | 75                               |
| 7.                                  | Distilled Fatty Acid                                                                       | 20                               |
| 8.                                  | Stearic Acid                                                                               | 35                               |
| 9.                                  | Soap Noodles                                                                               | 100                              |
| 10.                                 | Toilet soaps & Bathing Bars                                                                | 50                               |

The industry shall submit disposal (sale) details of the above by-products every month to the concerned Regional Office & Zonal Office, Kurnool. In case the by-products cannot be sold in the market due to any reasons, the by-products shall be treated as waste and disposed as per the norms.

**The previous Consent order dt. 16.11.2022, issued by the Board with validity upto 31.08.2026 stands cancelled from the date of issue of this order.**

**The issue of CTO & HWA (Renewal) to the industry was placed in the Consent Management (CTO) committee meeting held on 27.05.2026. The Committee recommended to issue CTO&HWA order (Renewal) for a period of Five years i.e., upto 28.02.2031 with the following conditions:**

- i. The industry shall not manufacture Poly Tetra Fluoro Ethylene (PTFE) under any circumstances without obtaining CTO of the Board.
- ii. The industry shall ensure that no R-22 (difluorochloro methane) 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.
- iii. 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.
- iv. High pressure, high temperature and high weight alarms and trends provided in DCS control room to monitor and control the fugitive emissions.
- v. Hydro testing and thickness testing will be done for all day tanks during

- annual shutdowns.
- vi. Short bolting/Long bolting on flanges avoided to prevent leakages from flanges.
  - vii. Preventive maintenance schedules to follow to avoid fugitive emissions.
  - viii. All transfer lines of seamless SS 304 provided with DCS operated control valve, PTs and temperature transmitters connected to DCS.
  - ix. Transfer line joints are connected with tongue and groove flanges to avoid high pressure leakages.
  - x. Continuous training to operating people to be given to monitor and control the fugitive emissions.
  - xi. 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.
  - xii. The plant shall be operated in automation mode from DCS control room for better controlled and efficient operations.
- iv. The industry shall complete the Bio-accumulation studies in the surrounding areas of radius 2 kms from a reputed CSIR institute by Sep'2026.
- v. 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.
- vi. The industry shall complete closed shed for unloading of raw material from rail racks within 18 months.
- vii. The industry shall not use halogenated solvents.
- viii. The industry is permitted to dispose of maximum of 157 TPA Sulphur Sludge/Sulphur containing residue generated in M/s. Sree Rayalaseema Hi-Strength Hypo Limited in the secured land fill facility of M/s. TGV SRAAC Limited.
- ix. 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 **28.02.2031**.

S SRISARAVANAN, I.F.S  
**MEMBER SECRETARY**

To  
**M/s. TGV SRAAC Limited ,  
Gondiparla (V), Kurnool (M),  
Kurnool District.**

**Email: sraaclab@rediffmail.com /  
sraaclab@tgvmail.net**

Copy to:

1. The Chairman, APPCB, Vijayawada for favour of kind information.
2. The JCEE, Zonal Office, Kurnool for information and necessary action.
3. The E.E., 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**

**The application was placed in the Consent Management (CTO) committee meeting held on 27.05.2026. The industry shall comply with the following conditions:**

1. The industry shall not manufacture Poly Tetra Fluoro Ethylene (PTFE) under any circumstances without obtaining CTO of the Board.
2. The industry 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.
3. 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 shall be operated in automation mode from DCS control room for better controlled and efficient operations.
4. The industry shall complete the Bio-accumulation studies in the surrounding areas of radius 2 kms from a reputed CSIR institute by Sep'2026.
  5. 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.
  6. The industry shall complete closed shed for unloading of raw material from rail racks within 18 months.
  7. The industry shall not use halogenated solvents.
  8. The industry is permitted to dispose of maximum of 157 TPA Sulphur Sludge/Sulphur containing residue generated in M/s. Sree Rayalaseema Hi-Strength Hypo Limited in the secured land fill facility of M/s. TGV SRAAC Limited.

#### **WATER POLLUTION:**

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

| <b>S.No.</b> | <b>Purpose</b>                                                          | <b>Chloro Alkali Plant (KLD)</b> | <b>Castor oil/Fatty acid plant (KLD)</b> | <b>Co-gen Plant (KLD)</b> | <b>Chloro methanes Plant</b> | <b>Total</b> |
|--------------|-------------------------------------------------------------------------|----------------------------------|------------------------------------------|---------------------------|------------------------------|--------------|
| 1            | Process & Washing                                                       | 1390.4                           | 85                                       | ..                        | 40.5                         | 1515.9       |
| 2            | DM water including DM plant for regeneration water and filter back wash | 387.5                            | ..                                       | 360                       | ..                           | 747.5        |
| 3            | Floor washings                                                          | 50                               | 6                                        | 30                        | ..                           | 86           |
|              |                                                                         |                                  |                                          |                           |                              |              |

|    |                                                    |               |            |             |               |                |
|----|----------------------------------------------------|---------------|------------|-------------|---------------|----------------|
| 4  | pump gland cooling                                 | 100           | 10         | ..          | ..            | 110            |
| 5  | cooling (makeup / humidification / water spraying) | 1538          | 210        | 7900        | 1600          | 11248          |
| 6  | Domestic                                           | 110           | 6          | 60          | 15            | 191            |
| 7  | process CMS                                        | ..            | ..         | ..          | 40            | 40             |
| 8  | Scrubber                                           | ..            | ..         | ..          | 100.5         | 100.5          |
| 9  | Boiler feed                                        | ..            | ..         | 640         | ..            | 640            |
| 10 | Recycled water                                     | - 245.8       | ..         | ..          | - 616.1       | - 861.9        |
|    | <b>TOTAL</b>                                       | <b>3821.7</b> | <b>317</b> | <b>8990</b> | <b>2412.1</b> | <b>15540.8</b> |

**\* Total water consumption is 15540.8KLD. Out of which total Fresh water consumption is 14678.9 KLD and recycled treated waste water is 861.9 KLD.**

10. The industry shall maintain dedicated flow meters for assessing the quantity of water used for the above purposes and shall maintain the records.
11. The effluent discharged should not contain constituents in excess of the tolerance limits mentioned below:

| Outlet                                                  | Parameter No.                                                            | Limiting Standards |
|---------------------------------------------------------|--------------------------------------------------------------------------|--------------------|
| Power plant – Outlet 3                                  | pH                                                                       | 6.5 to 8.5         |
|                                                         | Suspended solids                                                         | 100 mg/l           |
|                                                         | Oil and grease                                                           | 20 mg/l            |
|                                                         | Copper (total)                                                           | 1.0 mg/l           |
|                                                         | Iron (total)                                                             | 1.0 mg/l           |
|                                                         | Free available chlorine                                                  | 0.5 mg/l           |
|                                                         | Zinc                                                                     | 1.0 mg/l           |
|                                                         | Chromium (total)                                                         | 0.2 mg/l           |
|                                                         | Phosphate                                                                | 5.0 mg/l           |
| Castor oil & Fatty Acid Plant & Co-Gen Plant – Outlet 4 | pH                                                                       | 5.5 to 9.0         |
|                                                         | Suspended solids                                                         | 200 mg/l           |
|                                                         | Oil and grease                                                           | 10 mg/l            |
|                                                         | Biochemical Oxygen Demand 1 [3days at 27 <sup>0</sup> C]                 | 100 mg/l           |
| Domestic – Outlet 5                                     | pH                                                                       | 6.50 – 8.50        |
|                                                         | Oil and Grease                                                           | 10 mg/l            |
|                                                         | Biochemical Oxygen Demand                                                | 30 mg/l            |
|                                                         | Total Suspended Solids                                                   | <100 mg/l          |
|                                                         | Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml) | <1000 MPN/100 ml   |

12. The industry shall provide flow meters with totalizers at the inlet and outlet of

## Effluent

Recycling Plant and at treated water utilization sources.

13. The industry shall provide and maintain separate energy meters to the ETPs and maintain records for the same.
14. All existing CT-based plants reduce specific water consumption upto maximum of 3.5m<sup>3</sup>/MWh within a period of two years from date of publication of this notification
15. Specific water consumption shall not exceed maximum of 3.0 m<sup>3</sup>/MWh for new plants installed after the 1st January, 2017 and these plants shall also achieve zero waste water discharged
16. The waste water generation for tonne of caustic soda produced should not exceed more than 1 m<sup>3</sup> (Excluding cooling tower blow down).
17. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines
18. The industry shall provide flow meters and web camera for ZLD system and same connected to CPCB & APPCB servers, as per CPCB directions dt. 05.02.2014 / 02.03.2015.
19. The industry shall transfer the leachate landfill to ETP for treatment and disposal through pumping facility.
20. The industry shall maintain piezometric wells around the secured landfill site. Proper records shall be maintained and shall submit the records to RO, Kurnool on half yearly basis.
21. The industry is permitted to store treated waste water in guard ponds during rainy season/unavoidable circumstances only. The guard pond should have proper lining away from river Tungabhadra towards northern direction.
22. The industry shall not discharge any waste water outside the premises and shall maintain Zero Liquid Discharge system.
23. 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.
24. The industry shall maintain Rain Water Harvesting structure for the percolation of rain water from the roof of the fatty acid & caustic division administration buildings. Rain water shall not be allowed to mix with either trade or domestic effluents. Industry shall maintain storm water drains, properly.
25. The industry shall maintain rainwater runoff tank with pump for collection and storage of first flush contaminated storm water and the same shall be sent to CETP for further treatment. The industry shall maintain dry condition in outside drains during non-rainy season

26. The industry should regularly carry out ground water quality monitoring around the landfill and submit the reports every month to RO, Kurnool.
27. The industry shall maintain dry condition outside drains in non-rainy season.

#### AIR POLLUTION:

28. The emissions should not contain constituents in excess of the prescribed limits mentioned in below as per the MoEF & CC Notification S.O. 3305(E) dt. 07.12.2015.:

| Chimney No.               | Parameter                             | Standard                                                                                                                               |
|---------------------------|---------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|
| 1 (Commissioned May 2017) | Particulate Matter                    | 30 mg/Nm <sup>3</sup>                                                                                                                  |
|                           | Sulphur Dioxide (SO <sub>2</sub> )    | 100 mg/Nm <sup>3</sup>                                                                                                                 |
|                           | Oxides of Nitrogen (NO <sub>x</sub> ) | 100 mg/Nm <sup>3</sup>                                                                                                                 |
|                           | Mercury (Hg)                          | 0.03 mg/Nm <sup>3</sup>                                                                                                                |
| 2 (Commissioned May 2006) | Particulate Matter                    | 50 mg/Nm <sup>3</sup>                                                                                                                  |
|                           | Sulphur Dioxide (SO <sub>2</sub> )    | 600 mg/Nm <sup>3</sup> (Units Smaller than 500MW capacity units) 200 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above) |
|                           | Oxides of Nitrogen (NO <sub>x</sub> ) | 450 mg/Nm <sup>3</sup>                                                                                                                 |
|                           | Mercury (Hg)                          | 0.03 mg/Nm <sup>3</sup>                                                                                                                |
| 3 (Commissioned Dec 2003) | Particulate Matter                    | 100 mg/Nm <sup>3</sup>                                                                                                                 |
|                           | Sulphur Dioxide (SO <sub>2</sub> )    | 600 mg/Nm <sup>3</sup> (Units Smaller than 500MW capacity units) 200 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above) |
|                           | Oxides of Nitrogen (NO <sub>x</sub> ) | 600 mg/Nm <sup>3</sup>                                                                                                                 |
|                           | Mercury (Hg)                          | 0.03 mg/Nm <sup>3</sup> (for units having capacity of 500MW and above)                                                                 |
|                           | Particulate Matter                    | 10 mg/Nm <sup>3</sup>                                                                                                                  |
|                           | Sulphur Dioxide (SO <sub>2</sub> )    | 50 mg/Nm <sup>3</sup>                                                                                                                  |
|                           | Oxides of                             |                                                                                                                                        |
|                           |                                       |                                                                                                                                        |

|                 |                                                             |                                                                                                                                                                                                                                                                                             |
|-----------------|-------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4               | Nitrogen (NOx)                                              | 350 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                      |
|                 | Carbon Monoxide (CO)                                        | 150 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                      |
|                 | Hydrogen Sulphide (H <sub>2</sub> S) in fuel gas            | 150 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                      |
|                 | Sulphur content in liquid fuel, weight %                    | 1.0 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                      |
| 5               | Particulate Matter                                          | 50                                                                                                                                                                                                                                                                                          |
|                 | HCl                                                         | 50                                                                                                                                                                                                                                                                                          |
|                 | SO <sub>2</sub>                                             | 200                                                                                                                                                                                                                                                                                         |
|                 | CO                                                          | 100 (half hourly average)<br>50 (daily average)                                                                                                                                                                                                                                             |
|                 | TOC                                                         | 20                                                                                                                                                                                                                                                                                          |
|                 | HF                                                          | 4                                                                                                                                                                                                                                                                                           |
|                 | NOx                                                         | 400                                                                                                                                                                                                                                                                                         |
|                 | Total dioxins and furans                                    | 0.1 ng TEQ/Nm <sup>3</sup>                                                                                                                                                                                                                                                                  |
|                 | Cd + Th + their compounds                                   | 0.05                                                                                                                                                                                                                                                                                        |
|                 | Hg and its compounds                                        | 0.05                                                                                                                                                                                                                                                                                        |
|                 | Sb + As + Pb + Cr + Co + Cu + Mn + Ni + V + their compounds | 0.5                                                                                                                                                                                                                                                                                         |
|                 | Note : All values corrected to 11% oxygen on a dry basis.   |                                                                                                                                                                                                                                                                                             |
| 6 to 9, 12 & 13 | Particulate Matter                                          | 115 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                      |
| 10 & 11         | Particulate Matter                                          | 115 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                      |
|                 | HCL Mist                                                    | 35 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                       |
|                 | Chlorine                                                    | 15 mg/Nm <sup>3</sup>                                                                                                                                                                                                                                                                       |
|                 |                                                             | The sniff Cl <sub>2</sub> from different chlorine handling sections is collected under suction and sent to Cl <sub>2</sub> neutralization section. The Cl <sub>2</sub> gas is scrubbed in dilute sodium Hydroxide solution in two absorption towers to make sodium Hypo chlorite. A Closed- |

|    |                                                |                                                                                                                                                                                                                                                                        |
|----|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 14 | <b>Tail vents<br/>(Chlorine<br/>&amp; HCl)</b> | circuit scrubbing system installed to take care of any accidental leakage from chlorine storage and filling area. Cl <sub>2</sub> sensors are also provided at Cl <sub>2</sub> handling section. Water scrubber is installed to scrub the tail gas vents of HCl plant. |
|----|------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

29. The industry shall comply with ambient air quality standards of PM<sub>10</sub> - 100 micro grams/ m<sup>3</sup>; PM<sub>2.5</sub> - 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 standards: Day time (6 AM to 10 PM) - 75 dB (A)  
Night time (10 PM to 6 AM) - 70 dB (A)
30. The industry shall comply with emission limits for DG sets of capacity upto 800 KW  
as per the Notification G.S.R.804 (E), dated 03.11.2022 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.
31. The industry shall comply with the Noise Pollution (Control and Regulation) Rules, 2000 as follows: Noise levels: Day time (6 AM to 10 PM) - 75 dB (A); Night time (10 PM to 6 AM) - 70 dB (A).
32. 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.
33. The industry shall maintain continuous monitoring system to air pollution control equipment of all the stacks in the plant and connect the data to APPCB website.
34. The industry shall maintain separate energy meters to APCE and maintain records for power consumption for operation of air pollution control equipments i.e. ESPs and bag filters.
35. The industry shall regularly operate the air pollution control equipments provided and meet the standards prescribed in the CFO& HWA orders
36. The industry shall maintain and operate continuous temperature recorder with recording facility for recording temperature of Furnace provided for

- incineration of Glycerin pitch. Records shall be submitted to the RO, Kurnool.
37. The industry shall maintain and operate Continuous Ambient Air Quality Monitoring Stations (CAAQMs) and ensure continuous data transmission to the APPCB Website.
  38. The industry shall maintain and regularly 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.
  39. 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.
  40. The drums containing chemicals / solvents shall be stored under a roof on elevated platform with a provision to collect leakages / spillages in the collection pit.
  41. The fugitive emissions level of Suspended Particulate Matter (SPM) shall not exceed 2000 µg/m<sup>3</sup> at a distance of 10 m from the monitoring locations identified according to the area like raw material handling area, crusher area, raw material fed area, cooler discharge area and product processing area where fugitive dust emission generation is anticipated. The measurement shall be done on 08 hours basis with high volume sampler.
  42. The industry shall maintain closed sheds for storing of raw materials and Coal, Husk and Husk ash.
  43. All the internal roads shall be of cement concrete / bitumen to reduce fugitive dust due to the movement vehicles.
  44. 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.
  45. The industry shall not use odour causing substances such as Mercaptan or cause odour nuisance in the surroundings.

**GENERAL:**

46. The industry shall not manufacture Chloro difluoro methane under any circumstances as committed in the meeting.
47. The industry shall obtain EC amendment with necessary corrections and submit copy to concerned RO.
48. The industry shall not manufacture any product, other than those mentioned in this order, without CTE & CTO of the Board. The industry shall not increase the capacity beyond the permitted capacity mentioned in this order, without obtaining CTE & CTO of the Board.
49. The industry shall maintain chlorine sensors near cylinder storage and filling

sections. The industry shall take all the safety measures with respect to the Chlorine storage and submit safety audit report.

50. The industry has to take up regular preventive maintenance to check the functioning of chlorine 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.
51. The industry shall install Emergency visual indicators at main gate and other important points/places so that critical information is available within 2 minutes of declaring emergency.
52. 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.
53. The industry shall submit the information regarding usage of Ozone Depleting Substance once in six months to the Board.
54. The industry shall update the information in OCEMS – Industry Information Data Entry Software for Compliance Reporting Protocol in PART-II (Sections F & G) Every Quarter on 1st January, 1st April, 1st July and 1st October through this software system.
55. The industry shall maintain validity of Bank guarantees towards compliance of Board conditions.
56. The industry shall ensure implementation of requisite measures to prevent air pollution, fugitive emissions & odour nuisance in the surrounding area.
57. The industry shall store the hazardous waste in the closed sheds.
58. The following rules and regulations (as amended and upgraded from time to time) notified by the MoEF&CC, GoI shall be implemented.
  - a. Regulation of Persistent Organic Pollutants Rules, 2018.
  - b. Hazardous waste and other wastes (Management and Transboundary Movement) Rules, 2016.
  - c. Plastic Waste Management Rules, 2022.
  - d. Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989
  - e. Fly Ash Notification, 2016.
  - f. Battery Waste Management Rules, 2022.



- g. E-Waste (Management) Rules, 2022.
  - h. Construction and Demolition waste Management Rules, 2016.
  - i. Solid Waste Management Rules, 2016.
  - j. The Public Liability Insurance Act, 1991 and its amendments thereof.
  - k. Bio Medical Waste Management Rules, 2016.
- 
- 59. The industry shall comply with SoPs issued by CPCB time to time for all the wastes.
  - 60. The industry shall earmark an amount of Rs.1.29 crores per annum (i.e.0.2% of project cost) for 10 years towards the Enterprise social responsibility (ESR) activities and spend the amount in local area.
  - 61. The industry shall conduct HAZOP studies & HAZID studies and submit report to the Board regularly.
  - 62. The industry shall not cause any air pollution / odour nuisance in the surrounding environment.
  - 63. The industry shall comply with the Task Force directions issued by the Board vide order dt. 18.12.2014 & 24.02.2015.
  - 64. The industry shall comply with the conditions stipulated in the EC & CFE order conditions.
  - 65. Any other directions / circulars / notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.
  - 66. Green belt shall be developed all along the boundary & vacant spaces with tall growing trees with good canopy and it shall not be less than 33% of the total area.
  - 67. The industry shall renew the fire NOC & PESO from time to time and shall submit a copy at concerned RO.
  - 68. The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO on yearly base.
  - 69. The applicant should submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
  - 70. 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.
  - 71. The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent for Establishments

(CTE) and Consent To Operation (CTO) 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 NABL accredited third party.

72. 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.
73. The industry shall extend training to the working personnel for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.
74. 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 certified copy shall be submitted to the APPCB, Regional Office.
75. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.
76. 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.
77. 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.
78. Any other directions/circulars/notices issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.

### **Special Conditions:**

79. The industry shall inventory 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.
80. 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 and Amendments thereof.

81. 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.
82. 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](http://www.ap.gov.in).
83. As per the MoEF&CC Notification G.S.R. 465(E) dated 11.07.2025, the industry falls under Category – C.

### **SCHEDULE – C**

***[See rule 6(2)]***

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

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorization or its renewal 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 un 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 shall comply with the provisions outlined 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 authorized person shall submit annual returns in Form- 4 as per Rule 6(5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof to APPCB by 30<sup>th</sup> day of June of every year for the preceding period April to March. Hazardous Wastes quantities in Form- 4 shall be submitted in terms of Metric Tonnes/annum.
11. The authorized person shall not store hazardous waste for more than 90 days as per the Hazardous & Other Wastes (Management and Transboundary Movement) Rules, 2016.
12. The authorized person 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 buy back basis.
13. The authorized person shall maintain 7 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.
14. The authorized person shall maintain proper records for Hazardous & other wastes stated in Authorization 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 6 (5) of the Hazardous & Other Wastes (Management & Transboundary Movement) Rules, 2016 and amendments thereof by June 30th for the period ensuring 31st March of the year.

**S SRISARAVANAN, I.F.S**  
**MEMBER SECRETARY**

**To**  
**M/s. TGV SRAAC Limited,**  
**Gondiparla (V), Kurnool (M),**  
**Kurnool District.**