

Half Yearly Compliance Report**2024****01 Jun(01 Oct - 31 Mar)****Acknowledgment**

Proposal Name	Expansion of Chlor-Alkali and Synthetic Organic Chemicals manufacturing unit at Sy. No. 51/1, 2A, 2B, 2C1, 2C2, 2C3, 56/1, 58/1, 59/1, 60, 62/3/2D2, 2C1/A2, 2C1/A3, 2C2/C, 2G/1, 2E, 2F, 1A, 1B, 62A, 62 B, 63, 64, 70/C2, 72/P, Gondiparla village, Kurnool mandal and district, Andhra Pradesh by M/s. TGV SRAAC Limited		
Name of Entity / Corporate Office	N. Jaswanth Reddy		
Village(s)	N/A		
District	KURNOOL		
Proposal No.	IA/AP/IND2/50625/2016	Category	Industrial Projects - 3
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	ANDHRA PRADESH	Entity's PAN	NA
MoEF File No.	J-11011/84/2016-IA II (I)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year	2024
Remarks (if any)	Complied with conditions stipulated in EC
Reporting Period	01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office N. Jaswanth Reddy

	Project Area as per EC Granted	Annual Project Area in Possession
Private	152.4	152.4
Revenue Land	0	0
Forest	0	0
Others	0	0
Total	152.4	152.4

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Caustic Soda Lye (Or) Flakes (Or) Potassium Hydroxide Lye (or) Flakes (100 % basis)	Tons per Day (TPD)	28/02/2026	1020	849.5	1020
2	Liquid Chlorine	Tons per Day (TPD)	28/02/2026	600	576.9	600
3	Methyl Chloride	Tons per Day (TPD)	31/08/2026	10.45	0	1.2
4	Methylene Chloride	Tons per Day (TPD)	31/08/2026	122	138.84	158
5	Chloroform	Tons per Day (TPD)	31/08/2026	102.45	96.02	79

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	National emission standers for organic chemicals Manufacturing industry issued by the ministry vide G.S.R.608 (E) dated 21st July, 2010 and amended from time to time shall be followed.
<p>PPs Submission: Complied Being Complied. Installed online monitoring system for monitoring of emissions as per G.S.R.608 (E) dated 21st July, 2010 issued by Ministry.</p>		<p>Date: 21/06/2024</p>
2	AIR QUALITY MONITORING AND PRESERVATION	<p>Solvent management shall be carried out as follows i Reactor shall be connected to Chilled brine condenser system ii Reactor and solvent handling pump shall have mechanical seals to prevent leakage iii The condenser shall be provided with sufficient HTA and residence time so as to achieve more than 98% recovery iv Solvents shall be stored in a separate space specified with all safety measures v Proper earthling shall be provided in all the electrical equipment whenever solvent handling is done vi Entire plant shall be flame proof. The solvent storage tanks shall be provided with breather valve to prevent losses viii All the solvent storage tanks shall be connected with vent condenser with chilled brine circulation</p>
<p>PPs Submission: Complied All the reactors in the plant were provided with chilled brine and cooling water circulation. The industry maintains closed piping system to solvent tanks and every pump has mechanical seal. The industry provided condensers with sufficient HTA and residence time so as to achieve more than 98 percent recovery. Separate space is provided for solvent storage Proper earthling is provided to all electrical equipment. Where ever applicable the plant was made flame proof. Storage tanks are being provided with breather valves. All the solvent storage tanks vents are connected with chilled brine circulation.</p>		<p>Date: 21/06/2024</p>
3	AIR QUALITY MONITORING AND	For the DG sets, emission limits and the stack height shall be in conformity with the exact regulations and the CPCB guidelines.

	PRESERVATION	Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
PPs Submission: Complied The DG sets have sufficient height stacks minimum of 10m height as per CPCB guidelines and silencers (Acoustic enclosure) are provided for the DG sets to mitigate noise levels.		Date: 18/06/2024
4	AIR QUALITY MONITORING AND PRESERVATION	Continuous online (24x7) monitoring system for stack emission shall be installed for measurement of flue gasses discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. For Online continuous monitoring of effluent, The unit shall install the web camera with night vision capability and the flow meters in the channel/drain carrying effluent within the premises.
PPs Submission: Complied Continuous online 24x7 monitoring system for stack emission was installed. Web camera to effluent lines are provided and connected to SPCB and CPCB.		Date: 21/06/2024
5	AIR QUALITY MONITORING AND PRESERVATION	Storage of raw materials shall be either stored in soils or in covered area to prevent dust pollution and other fugitive emissions.
PPs Submission: Complied Complied Raw Salts is stored under covered shed with concrete platform.		Date: 18/06/2024
6	AIR QUALITY MONITORING AND PRESERVATION	To control source and the fugitive emissions, suitable pollution control devises shall be installed to meet the prescribed norms and/or the NAAQS. The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines
PPs Submission: Complied Automatic interlocks on chlorine storage tanks, chlorine sensors for leak detection, HCl scrubbers for CMS, tail gas scrubber and emergency chlorine scrubber were provided to mitigate fugitive emissions.		Date: 18/06/2024
7	Corporate Environmental Responsibility	At least 2.5% of the total project cost shall be allocated for Enterprise social commitment based on the hearing issues and item-wise details along with time bound action plan shall be prepared and submitted to the ministry regional office.
PPs Submission: Being Complied Item-wise details along with time bound action plan for CER shall be prepared and submitted to the Ministry's Regional Office. Rs. 237.29 Lakhs spent during 20122-2023 towards installation of drinking RO, Health camps etc.		Date: 18/06/2024
8	GREENBELT	The green belt of at least 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the state forest department.
PPs Submission: Complied The green belt is developed in an area of 89.03 ha i.e., 58.42 percent of total area.		Date: 21/06/2024
9	Human Health Environment	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.

<p>PPs Submission: Complied Yearly health check-up are being conducted to all employees and records are being maintained. OHS center is equipped with a doctor, supporting staff and facilities.</p>		<p>Date: 21/06/2024</p>
10	PUBLIC HEARING	All the commitments made regarding issues raised during the public hearing/consultation meeting held on 29t November, 2017 shall be satisfactorily implemented.
<p>PPs Submission: Being Complied The major issues discussed during public hearing are pertaining to local employment, drinking RO plants, CSR and Pollution control measures. Implemented ZLD system and APC provided to emissions sources. Rs. 237.29 Lakhs spent during 2018-2021 towards installation of drinking RO, Health camps, sanitization etc.</p>		<p>Date: 18/06/2024</p>
11	Risk Mitigation and Disaster Management	Hazardous chemicals shall be stored in tanks, tank farms, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer through pumps.
<p>PPs Submission: Complied Hazardous chemicals stored in tanks, tank farms and drums. Flame arresters provided on tank farm and solvent transfer through pumps and pumps are connected to the earth pit.</p>		<p>Date: 18/06/2024</p>
12	Risk Mitigation and Disaster Management	The company shall strictly comply with the rules and guidelines under manufacture, Storage and import of hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All the transportation of Hazardous Chemicals Shall be as per the Motor Vehicle Act (MVA), 1989.
<p>PPs Submission: Complied Complied. Annual safety audit conducted during 2021 by third party and submitted the report to factories department and APPCB. HAZOP study of entire complex was carried out in 2021. Quantitative Risk Assessment was carried out in 2022. Provided necessary arrangements for transportation of hazardous chemicals.</p>		<p>Date: 18/06/2024</p>
13	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per norms.
<p>PPs Submission: Complied Sufficient firefighting equipments and fire hydrant system is being provided the industry.</p>		<p>Date: 18/06/2024</p>
14	WASTE MANAGEMENT	Process organic residue and spent carbon, if any, shall be sent to the cement industries. ETP Sludge, process inorganic & evaporation salt shall be disposed off to the TSDF.
<p>PPs Submission: Complied Complied Process Organic residue sent to in-house incinerator. ETP sludge, process inorganic and evaporation salts sent to In-House secured land fill. No spent carbon generated anticipated.</p>		<p>Date: 18/06/2024</p>
15	WASTE MANAGEMENT	The Company shall Undertake the waste minimization measures as below i Metering and control of quantities of active ingredients to minimize waste ii Reuse of by-products from the process as raw materials or as raw material substitutes in other processes iii Use of automated filling to minimize spillage iv Use close feed system in to batch reactors v Venting equipment through vapor recovery system vi Use of high pressure hoses for equipment cleaning to reduce waste water generation

<p>PPs Submission: Being Complied Being Complied. The following are the measures being following for existing facility All the raw material quantities are controlled by analyzing process parameters to minimize waste. Not Applicable Liquid raw materials are being transferred through closed system with DCS control. No batch process. Equipments are being fitted with proper condensers. High pressure pump is being used for cleaning equipment to reduce waste water generation.</p>		<p>Date: 18/06/2024</p>
16	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>As already committed by the project proponent, Zero liquid discharge shall be ensured and no Waste/treated water shall be discharged outside the premises.</p>
<p>PPs Submission: Complied Complied No effluent is discharged outside the plant premises. Total effluent is treated in ZLD system and reused.</p>		<p>Date: 21/06/2024</p>
17	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Total fresh water requirement shall not exceed 15167 cum/day to be met from Tungabhadra River through infiltration wells. Prior permission in this regard shall be obtained from the concerned regulatory authority/ CGWA.</p>
<p>PPs Submission: Complied Complied Presently the water consumption as per the quantity mentioned in CFO. We have obtained permission from Water resource department for withdraw of 20 MLD of water.</p>		<p>Date: 21/06/2024</p>
18	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Process Effluent/any waste water shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.</p>
<p>PPs Submission: Complied Complied Process effluent and wastewater streams are transfer to effluent collection tank with dedicated pipelines.</p>		<p>Date: 18/06/2024</p>
19	<p>Statutory compliance</p>	<p>Consent to Establish / Operate for the project shall be obtained from state pollution control board as required under the Air (Prevention and Control of Pollution) Act, 1981 and the water (Prevention and Control of Pollution) Act,1974.</p>
<p>PPs Submission: Complied Complied We have obtained the consent for establishment Expansion, vide order no. APPCB KNL KNL 231 CFE HO 2008 dated 25 05 2018 and CFO vide order no. APPCB KNL KNL 16322 CFO and HWA HO 1987valid till 28 02 2026.</p>		<p>Date: 18/06/2024</p>
20	<p>Statutory compliance</p>	<p>Necessary Authorization required under the hazardous and other wastes (Management and trans-Boundary movement) Rules, 2016, Solid Waste management Rules, 2016 shall be obtained and provisions contained in the rules shall be strictly adhered to.</p>
<p>PPs Submission: Complied Complied. The unit obtained CFO vide order no. APPCB KNL KNL16322 CFO and HWA HO 1987valid till 28.02.2026.</p>		<p>Date: 18/06/2024</p>

General Conditions

Sr.No.	Condition Type	Condition Details
1	Statutory compliance	The above conditions will be enforced, inter-alia under the provisions of the water (prevention and control of pollution) Act, 1974, The Air (prevention and control of water pollution) Act, 1981,

		the environment (Protection) Act, 1986, the hazardous waste (management, handling and Trans-boundary Movement) Rules, 2016 and the public liability insurance Act, 1991, read with subsequent amendments therein.
<p>PPs Submission: Complied</p> <p>Condition noted and same will be followed. The unit is under operation vide valid CFO order no. APPCB KNL KNL 16322 CFO and HWA HO 1987 valid till 28.02.2026. Public liability insurance obtained.</p>		<p>Date: 18/06/2024</p>
2	AIR QUALITY MONITORING AND PRESERVATION	The locations of ambient air quality monitoring station shall be decided in consultation with the state pollution control board (SPCB) and it shall be ensured that at least one station is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.
<p>PPs Submission: Complied</p> <p>Complied. Installed 3 Nos of Ambient Air Quality Monitoring Stations in consultation with the State Pollution Control Board. Out of 3 Nos, one station was in the up wind and another station in down wind direction where maximum ground level concentrations are anticipated.</p>		<p>Date: 21/06/2024</p>
3	Corporate Environmental Responsibility	The company shall undertake all measures for improving socio-economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villagers, administration and other stake holders. Also eco-developmental measures shall be undertaken for overall improvement of the environment.
<p>PPs Submission: Complied</p> <p>Complied. The company is undertaking socio-economic development activities in the surrounding villages by providing RO plants etc. CSR activities plantation around the road are undertaken by involving local villages and administration.</p>		<p>Date: 18/06/2024</p>
4	Human Health Environment	Training shall be imparted to all employees on the safety health aspects of chemicals handling. Pre- employment and routine periodical medical examinations for all the employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
<p>PPs Submission: Complied</p> <p>Complied Training is provided to employees on safety and health aspects of chemicals handling based on MSDS. Pre-employment checkup and annual health checkup is under taken for all employees.</p>		<p>Date: 18/06/2024</p>
5	MISCELLANEOUS	No further expansion or modifications in the plant shall be carried out without prior approval of the ministry. In case of deviations are alterations in the project proposal from those submitted to this ministry, a fresh reference shall be made to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
<p>PPs Submission: Agreed to Comply</p> <p>Condition Noted and Same will be followed. No expansion or modifications are carried out without prior approval of the Ministry of Environment Forest and climate change.</p>		<p>Date: 18/06/2024</p>
6	MISCELLANEOUS	The Company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the ministry. All the recommendations made in the EIA/EMP in respect of environment management, risk mitigation measures and public hearing shall be implemented.

<p>PPs Submission: Complied Complied. All environmental protection measures as mentioned in EIA EMP was implemented in respect of environment management, risk mitigation measures.</p>		<p>Date: 18/06/2024</p>
7	MISCELLANEOUS	A Separate environmental management cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental management and monitoring functions.
<p>PPs Submission: Complied Complied. A separate environmental cell has been established. All equipments and full-fledged laboratory facilities are available to carry out the environment and monitoring functions. R and D center of our company is recognized by Department of Science and Industrial Research, Ministry of Science and Technology, Govt., of India.</p>		<p>Date: 18/06/2024</p>
8	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all the sources of the noise generation. The ambient noise levels shall conform to the standards prescribed under environment (Protection) Act, 1986 rules, 1989 viz. 75 d BA (day time) and 70 dBA (night time).
<p>PPs Submission: Complied Complied The ambient noise levels in and around the plant area are being monitored on monthly basis through authorized third party and the values are within the limit.</p>		<p>Date: 18/06/2024</p>
9	Statutory compliance	The project authorities must strictly adhere to the stipulations made by the state pollution control board (SPCB), State government and /or any other statutory authority.
<p>PPs Submission: Complied Complied. All the stipulations made by the state pollution control board SPCB are being adhered.</p>		<p>Date: 18/06/2024</p>
10	Statutory compliance	A copy of clearance letter shall be sent by the project proponent to the concerned Panchayat, Zila parisad/municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
<p>PPs Submission: Complied Complied. A copy of the Environmental Clearance letter had circulated to the Gondiparla Grama Panchayat, Kurnool Zilla Parishad, Municipal Corporation and Urban local body.</p>		<p>Date: 18/06/2024</p>
11	Statutory compliance	The project proponent shall also submit six monthly reports on the status of the compliance of the stipulated environmental clearance conditions including results of monitored data (both in the hard copies as well as in the e-mail) to the respective Regional office of MoEF & CC, the respective zonal office of CPCB and SPCB. A Copy of Environmental clearance and six-monthly compliance status reports shall be posted on the website of the company.
<p>PPs Submission: Being Complied Being Complied. Submitted six months progress reports to the Ministry of Environment, Forest and Climate change, Regional Office over Parivesh Portal A copy of Environmental Clearance letter and six monthly compliance report is posted in the companys web site dt. 24-06-2020.</p>		<p>Date: 18/06/2024</p>
12	Statutory compliance	The Environmental statement for each financial year ending 31st march in form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of

		environmental clearance conditions and shall also be sent to the respective regional offices of MoEF&CC by e-mail.
PPs Submission: Being Complied Being Complied. Submitting regularly Environmental Statement to APPCB, Kurnool. Further as required we will put the environmental statement in the companys web site along with status of compliance of environmental clearance conditions.		Date: 18/06/2024
13	Statutory compliance	The project proponent shall inform the public that the project has been accorded environment clearance by the ministry and copies of the clearance letter are available with the SPCB/Committee and may also be seen at the website of the ministry at http://moef.nic.in . This shall be advertised within seven days from date of issue of the clearance letter, at least in two local newspaper that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional office of the ministry.
PPs Submission: Being Complied Complied Informed the public stating that our industry has been accorded environmental clearance by the MoEF and CC through two newspapers. (The New Indian Express dated 08.05.2018 and Andhra Prabha dated 06.05.2018.)		Date: 18/06/2024
14	Statutory compliance	The ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not found to be satisfactory.
PPs Submission: Complied Condition noted		Date: 18/06/2024
15	Statutory compliance	The ministry reserves the right to stipulate additional conditions, if found necessary. The company in a time bound manner will implement these conditions.
PPs Submission: Complied Condition noted and same will be followed.		Date: 18/06/2024
16	WASTE MANAGEMENT	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the ministry of environment, Forest and Climate change as well as state government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
PPs Submission: Complied Complied. Rs. 35 crores were spent for implementation environment protection measures and to operate pollution control equipment and to monitoring the same continuously and recurring is about 10 crores per year.		Date: 18/06/2024
17	WATER QUALITY MONITORING AND PRESERVATION	The company shall Harvest rain water from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for the different industrial operations within the plant.
PPs Submission: Complied Complied Rooftop rain water is collected to recharge the ground water.		Date: 21/06/2024

18	AIR QUALITY MONITORING AND PRESERVATION	The National Ambient Air Quality Standards issued by the ministry vide. G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with.
PPs Submission: Complied Complied. Installed continuous Ambient Air Quality monitoring station and results are found to be within the NAAQ standards.		Date: 18/06/2024
Visit Remarks		
Last Site Visit Report Date:		10/10/2022
Additional Remarks:		