

Chemplast Sanmar Limited

CSL/KKL/EN/MOEF&CC/2025/NOV/513 17 NOV 2025 PVC Division Karaikal Plant:
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Deputy Director General of Forests

Ministry of Environment, Forest and Climate Change (MoEF&CC)
Integrated Regional Office, 1st Floor, Additional Office Block for GPOA

Shastri Bhawan, Haddows Road, Nungambakkam, Chennai - 600006, Tamilnadu

Respected Sir/Madam,

<u>Subject:</u> Submission of Half-Yearly Compliance Status Report on Environmental Clearance (EC) given by Ministry of Environment, Forest and Climate Change (MoEF&CC) -reg.

Reference: MoEF&CC EC/File No.: J-11011/24/96-IA.II (I) dated 03 JUL 1996 & Transfer of EC dated 26 DEC 2022

With references to the above-mentioned subject, please find the compliance status report to the conditions contained in the MoEF&CC's EC "60 TPD Chlor-Alkali Plant at Melavanjore - Karaikal, Puducherry" enclosed for the period from APRIL 2025 TO SEPTEMBER 2025.

Thanking you and assuring our best cooperation always,

Yours faithfully,

For Chemplast Sanmar Limited,

Senior Vice President - Operations

Enclosures: As mentioned above

Copy to:

The Member Secretary
Puducherry Pollution Control Committee
3rd Floor, PHB Building, Anna Nagar
Puducherry - 605005

Regd Office: 9 Cathedral Road Chennai 600 086 India

COMPLIANCE STATUS

Subject/Proposal name:

60 TPD Chlor-Alkali Plant at Melavanjore - Karaikal, Puducherry

Reference:

Environmental Clearance/File No.: J-11011/24/96-IA.II(I) dated 03 JUL 1996 & Transfer of EC dated 26 DEC 2022

PRESENT STATUS OF THE PROJECT

The said project namely "60 TPD Chlor-Alkali Plant at Melavanjore - Karaikal, Puducherry" is completed and in operation

Conditions and Environmental Safeguards:

#	Conditions description	Compliance status		
2 i	The project authorities must strictly adhere to stipulations made by the State Pollution Control Board and the State Government			
ii	No further expansion or modification in the plant should be carried out without prior approval of this Ministry	Being complied. Expansion or Modification in the plant will be carried out with prior approval from MoEF&CC as per the requirements of EIA Notification, 2006		
iii	Gaseous (Cl ₂ , SO ₂ , Nox and HC) and particulate emissions from the various process vents and storage tanks should conform to the standards prescribed by the competent authorities, from time to time. At no time, the emissions level should go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the units, the respective unit should be put out of operation immediately and should not be restarted until the pollution control measures are rectified to achieve the desired efficiency	CompliedGaseous emissions namely Cl ₂ , SO ₂ , Nox etc. and particulate emission data during the compliance period (APR 25 to SEP 25) is attached as Annexure 2		
iv	At least three ambient air quality monitoring stations should be established in the down wind direction as well as where maximum ground level concentration of SPM, SO2, Nox and Cl2 are anticipated. The selection of the AAQ monitoring stations should be based on modeling exercise to represent short term ground level concentrations, sensitive targets etc. in consultation with State Pollution Control Board	Complied. At least three AAQ monitoring is done in regular intervals by NABL/MoEF&CC approved third party laboratory. Selection of locations is based upon the recommendations made by the PPCC. These reports are being submitted to PPCC on regular basis.		
SA,	Stack emissions should also be regularly monitored installing stack monitoring devices in consultation the State Pollution Control Board	Stack monitoring devices are fixed in our Boiler & Process stack and are connected to PPCC/CPCB servers via CARE Air Center. Regular monitoring is also done through		

		approved third-party laboratory, and the reports are submitted to PPCC as well
	Data on AAQ and stack emissions should be submitted regularly to this ministry once in six months and the State Pollution Control Board once in three months along with the statistical analysis and interpretation	Ambient Chlorine Monitoring & Stace emissions sensors are connected to the PPCC/CPCB servers via CARE Air Center and data are transmitted regularly. PPC also carries out monitoring regularly.
		-Environment monitoring data during th compliance period (APR 25 to SEP 25) attached as Annexure 3
V	Fugitive emissions should be controlled, regularly monitored and data recorded	Complied. Fugitive emission of Chlorine is monitore through online sensors and data recorded.
	Chlorine sensors should be installed in the chlorine storage area at lower level between the tanks	Chlorine sensors are installed at strategoric locations in the storage/handling areas and the real-time data are being transmitted to PPCC.
		-Online monitoring data (Chlorine sensors during the compliance period (APR 25 t SEP 25) is attached as Annexure 4
vi	Liquid effluent coming out of the plant should conform to the standard as prescribed by the State Pollution Control Board/the Ministry of Environment and Forests under Environment (Protection) Act, 1986	Complied. Raw effluent is getting collected at ET and treated.
	Recycling and reuse of the treated waste water should be maximized to the extent possible	The treated trade effluent is fully recycle and reused in our Chlor-Alkali processitself. Company has achieved Zero Liqui Discharge status.
		-Analysis report of reject water during th compliance period (APR 25 to SEP 25) attached as Annexure 5
vli	Adequate measures for control of noise should be taken so as to keep noise levels below 85 dB in the work environment	Complied. Adequate measures (Acoustic control) are taken to control the noise, and the levels are within the prescribed standards stipulated by the Boards from time to time. Regular monitoring of noise has been done and reported to PPCC.
ANN NAVORE	Persons working near the noisy machines like blowers, compressors etc. should be provided with well designed ear muffs/plugs. Besides, measures should be taken to reduce the noise by engineering methods	Based upon the noise monitoring survey, well designed ear muffs/plugs are given to persons working near the noisy areas. Required engineering control is implemented for all our machines to

		reduce noise in the design phase itself.
		-Noise survey report during the compliance period (APR 25 to SEP 25) i attached as Annexure 6
viii	Occupational health surveillance programme should be undertaken as a regular exercise especially with respect to exposure to chlorine, thermal stresses and noise pollution	Complied. Occupational health surveillance is being done on periodic basis for all our employees/contractors working in the hazardous area. The reports are available in our Occupational Health Centre managed by a Doctor supported by nurse -Sample reports on the heath surveillance are attached as Annexure 7
ix	A green belt of adequate width and density (2000- 2500 trees/ha) should be developed covering 12 acres of land using native plant species suitable for saline soil in consultation with local Agriculture Department. Final treated liquid effluent should be used for developing the greenery	Adequate green belt is maintained usin native trees. We have around 11,000 numbers of trees in the area covering 12. Acres. Final treated sewage water is use for developing the green belt. -Photographs of green belt are attache as Annexure 8
×	Suitable alarm system and standard procedure for transmitting the information on accidental release of chlorine to nearby areas and common focal point should be established. Steps should also be taken to ensure access to information on weather conditions prevailing at that time and weather forecast. Wind socks at appropriate locations should be provided	Complied. Accidental release of Chlorine to nearby areas are being monitored by the online sensors which are connected to the PPCC/CPCB servers via our CARE AIR Center. Internet facilities made available to access the information on weather conditions prevailing at that time and weather forecast. Wind socks are provided in the appropriate locations to identify the direction during emergencies On-site & Off-site mock drills are being carried out periodically.
	Necessary approval may be taken from the Explosives Department/Chief Inspector of Factories regarding the safety of the pressure vessels, storage tanks etc.	Required approvals are taken from Petroleum & Explosives Safety Organization (PESO) and Inspector of Factories (IF) and renewed from time to time for pressure vessels and storage tanks.
		-Latest PESO approvals for storage tanks are attached as Annexure 9
SA,	(3)	MOU is available with nearby industries to combat emergencies that may arise it case of an accident. Regular on/off-sit mock drills also conducted in coordination with Government official including the District Administration. -Sample mock drill report is attached at Annexure 10

xii	Hazardous wastes should be handled as per the Hazardous Waste (Management and Handling) Rules, 1989 of the EPA, 1986 and necessary approval of State Pollution Control Board for safe collection, treatment, storing and disposal of hazardous waste should be obtained	Complied. Hazardous Waste handling, collection treatment, storing and disposal has been done as per the Authorization issued by PPCC (by the requirements of Hazardou Waste [Management and Transboundary Movement] Rules, 2016Valid Hazardous Waste Authorization is attached as Annexure 11
xiii	Handling, manufacture, storage and transportation of hazardous chemicals should be carried out in accordance with the Manufacturer, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October, 1994	Complied. Handling, manufacture, storage and transportation of hazardous chemicals are carried out in accordance with 'The Manufacturer, Storage and Import of Hazardous Chemicals Rules, 1989 at amended in October, 1994'. Point wise compliance status and action taken report submitted to PPCC regularly. -Copy of compliance report is attached at Annexure 12
xiv	The project authorities must set up laboratory facilities for collection and analysis of samples under supervision of competent technical personnel, who will directly report to the Chief Executive	Complied. Laboratory facility available for collection/analysis of water samples. It is supervised by qualified/experiences people (9 members team) reporting to the Plant Head. Our Laboratory has facilities towards the environmental sample analysis like pH Meter, Conductivit Meter, Spectrophotometer, Gar Chromatograph (organic analysis Nephelometric/Turbidimetric Analyses along with all facilities related to classical analysis
xv	A separate Environment Management Cell with suitably qualified people to carry out various functions should be set up under the control of Senior Executive, who will report directly to the Head of the organisation	Complied. A separate Environment Department wit
xvi	The funds earmarked for the environmental protection measures should not be diverted for any other purposes and year-wise expenditure should be reported to this ministry	Complied. Separate budget for the environmental protection measures is earmarked everyear. All the expenses are recorded by the advanced accounting system (SAP) of the company. Total environmental protection expenditures and investments FY 2024-21 were around Rs. 2.3 Crores which include O&M contract, Green belt development Environment monitoring, Wastemanagement & disposal etc.
AVVA	Six monthly reports on the compliance status of the project implementation vis-a-vis above environmental measures should be submitted to	Complied. Six monthly compliance reports ar regularly submitted online to the

	Regional Office of the Ministry at Bangalore	Integrated Regional Office of MoEF&CC, Chennai (via PARIVESH Portal) and PPCC (via Hard Copy). Latest Half Yearly Compliance Report for the period OCT 24 to MAR 25 was submitted to the authorities vide Letter No.: CSL/KKL/EN/MOEF&CC/2025/MAY/452 dated 23 MAY 2025
3	This Ministry or any competent authority may stipulate any further conditions (s) on receiving reports from the project authorities. The above conditions will be monitored by the Regional Office of this Ministry located in Karnataka (Bangalore)	Noted
4	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory	Noted
5	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention and Control of Pollution) Act, 1974; and Air (Prevention and Control of Pollution) Act, 1981; The Environment (Protection) Act, 1986 and the Public Liability Insurance Act, 1991 with their amendments and rules	

Site visits of Ministerial staff

The following table shows the details of site inspection of ministerial representatives so far:

#	Name of Ministerial staff	Date of site inspection
1	Dr. Suresh, Regional Director & Ms. Anjana Kumari, Scientist -D Central Pollution Control Board (CPCB), Bangalore	07 NOV 2019
2	Dr.C.Palpandi, Scientist 'D' Ministry of Environment, Forest and Climate Change (MoEF&CC), Chennai	03 OCT 2024

Thanking you,

Yours faithfully,

For Chemplast Sanmar Limited,

Senior Vice President – Operations





COMPLIANCE REPORT TO THE CONDITIONS SPECIFIED IN PPCC - CONSENT TO OPERATE/RENEWAL

Air Consent Order (To Operate/Renewal)

Ref. No.: (402166)/(2025) dated 03 JAN 2025

#	Condi	tions specified in Co	onsent Ord	er		Compliance status	
1	Notwi Rules	CIAL CONDITIONS: twithstanding anything contained in any other Act or es or Notifications this clearance is given from pollution the contained in any other Act or es or Notifications this clearance is given from pollution the contained in any other Act or established the contained the contained in any other Act or established the contained the cont		The state of the s			
2	Detail	s of Products and B	y-products	manufactu	red:	Complied.	
	S. No.	Description		Quantity	Unit	Only the listed products are manufactured and within the	
	а	Main products N	1anufacture	ed		specified quantity	
	1	Caustic Soda (inc Caustic Soda Flat 19162.5 TPA)		54,750	TPA		
	2	Chlorine Gas		48,181	TPA		
	3	Hydrogen Gas		1,387	TPA		
	4	Hydrochloric Aci	d	16,425	TPA		
	5	Sodium Hypo Ch	lorite	10,950	TPA		
	6	Ethylene di chlor	ide	84,000	TPA		
	7	Natural gas based captive power plant(with standby engine)		8.5	MW		
	b	By-product					
	1 No by-product 0						
3	150000	pplicant shall ere ing specifications: Chimney/Stack attached to	Height of the stack in meter	Diame ter, m	Volume Nm3/hr	Complied. Stacks are erected as per the listed specifications only	
	1	Stack 1 - Flaker unit	46	1	30,000		
	2	Stack 2 - HCL Tower	22.5	0.15	200		
	3	Stack 3 – Hypo Tower	15	0.234	600		
	4	Stack 4 - Ethylene di chloride (Incinerator Stack with Waste Heat Recovery Boiler - 2.6 TPH	30	0.55	5,000	STSANA	

5	Stack 5 - Ethylene di chloride (Incinerator - Emergency	11	0.86	4,500
6	Stack) Stack 6 - Boiler IBR 8.0 TPH LSHS Fired	45	1.2	30,000
7	Stack No 7 - Natural Gas based Captive Power Plant (8.5 MW) and Waste Heat Recovery Boiler (4.8 TPH)	30	1.1	26,000
8	Stack 8 - DG Set 1 - 600 KVA	22 m from the GL	0.1	2,500
9	Stack 9 - DG Set 2 - 600 KVA	16.5 m from the GL	0.2	6,500
10	Stack 10 - DG Set 3 - 400 KVA	7 m from the GL	0.1	2,000
11	Stack 11 - DG Set 4 - 180 KVA	7 m from the GL	0.1	200
12	Stack 12 - DG Set 5 - 82.5 KVA	12 m from the GL	0.1	100

The applicant shall install a comprehensive air pollution control system consisting of control equipment as detailed Air pollution control system with the below and operate and maintain the same continuously so as to achieve the level of pollutants to the following standards:

4

Chimney/Stack	Control Equipment	Relevant- parameters & standard limits
Stack 1 - Flaker unit	Stack	-
Stack 2 - HCL Tower	Tail Gas Absorption System and Stack	Chlorine - 15 mg/Nm3, Hydrochloric Acid Mist - 35 mg/Nm3
Stack 3 - Hypo Tower	3 Stage Caustic Wet Scrubber, Acid Mist Absorption System and	Chlorine - 15 mg/Nm3, Hydrochloric Acid Mist - 35 mg/Nm3

Complied.

control equipment are operated and maintained continuously to achieve the prescribed standards



	Stack		
tack 4 - thylene di hloride Incinerator tack with Vaste Heat ecovery Boiler 2.6 TPH)	2 Combustion Chambers, Waste Heat Recovery Boiler and 3 Water Scrubbers	Chlorine - 15 mg/Nm3, Hydrochloric Acid Mist - 35 mg/Nm3	
Stack 5 - Ethylene di chloride (Incinerator - Emergency Stack)	Stack		
Stack 6 - Boiler IBR 8.0 TPH LSHS Fired	Stack	Particulate Matter - 150 mg/Nm3, Sulphur di oxide (SO2) - 600 mg/Nm3 @ 3% dry O ₂ , Oxides of Nitrogen (NOx) - 300 mg/Nm3 @ 3% dry O ₂	
Stack 7 - Natural Gas based Captive Power Plant (8.5 MW) and Waste Heat Recovery Boiler (4.8 TPH)	Stack	Oxides of Nitrogen (NOx) - 100 ppm m (v/v) at 15% excess oxygen	
Stack 8 - DG Set 1 - 600 KVA	Acoustic Enclosure and Stack	Oxides of Nitrogen (NOx) - 0.4 g/kW-Hr, Hydrocarbon (HC) - 0.19 g/kW-Hr, Carbon Monoxide (CO) - 3.5 g/kW-Hr, Particulate Matter (PM) - 0.02 g/kW-Hr, Smoke Limit (Light Absorption Coefficient) 0.7 per m	
Stack 9 - DG Set 2 - 600 KVA	Acoustic Enclosure and Stack	Oxides of Nitrogen (NOx) - 0.4 g/kW-Hr, Hydrocarbon (HC) - 0.19 g/kW-Hr, Carbon Monoxide (CO) - 3.5 g/kW-Hr, Particulate Matter (PM) - 0.02 g/kW-Hr,	

				Smoke Limit (Light Absorption Coefficient) 0.7 per m	
		10 - DG - 400 KVA	Acoustic Enclosure and Stack	Oxides of Nitrogen (NOx) - 0.4 g/kW-Hr, Hydrocarbon (HC) - 0.19 g/kW-Hr, Carbon Monoxide (CO) - 3.5 g/kW-Hr, Particulate Matter (PM) - 0.02 g/kW-Hr, Smoke Limit (Light Absorption Coefficient) 0.7 per m	
		11 - DG - 180 KVA	Acoustic Enclosure and Stack	Oxides of Nitrogen (NOx) - 0.4 g/kW-Hr, Hydrocarbon (HC) - 0.19 g/kW-Hr, Carbon Monoxide (CO) - 3.5 g/kW-Hr, Particulate Matter (PM) - 0.02 g/kW-Hr, Smoke Limit (Light Absorption Coefficient) 0.7 per m	
	Stack : Set 5 - KVA	12 - DG 82.5	Acoustic Enclosure and Stack	Oxides of Nitrogen (NOx) - 0.4 g/kW-Hr, Hydrocarbon (HC) - 0.19 g/kW-Hr, Carbon Monoxide (CO) - 3.5 g/kW-Hr, Particulate Matter (PM) - 0.02 g/kW-Hr, Smoke Limit (Light Absorption Coefficient) 0.7 per m	
5	The app	olicant shall	observe the fol	lowing fuel consumption:	Agree to observe.
	S. No.	S. Type of Fuel		Maximum quantity/day	The unit of Diesel consumption fo DG set is LPH, request to amend the
	1	Diesel fo	for DG Sets (in TPH) 391		unit as LPH instead of TPH
	2	Hydroge	n Gas (in TPA)	900	
	3	Super Ke	rosene (in TPD)	0.3	(0)
	4	LSHS for Boiler (in Kgs/Hr)		r) 675	ST SANA
5				in the chimney/stack and	Agree to comply

× 5

	facilities such as ladder, platform etc. as per requirements for monitoring the air emissions and the same shall be open for inspection and use by the Board's staff. The chimney/stacks attached to various sources of emission shall be designated by numbers such as S-1, S-2 etc. and these shall be painted/displayed to facilitate identification. The unit shall comply with the guidelines mentioned in Emission Regulation, Part III published by the CPCB	
7	Interlocking shall be provided with the Process and Pollution Control Systems	Agree to comply
8	Separate Energy Meters shall be installed for the Air Pollution Control Systems and proper records shall be maintained in the log book	Complied. Separate Energy Meters are provide and readings are recorded in the lo book regularly
9	The proponent shall take measures to comply with the provisions laid down under Noise pollution (Regulation and Control) Amendment Rules, 2010 and control the noise to the prescribed levels	Complied. Control measures taken to compliwith the provisions laid down under Noise pollution (Regulation and Control) Amendment Rules, 2010 Noise monitoring is been done monthly and values are within the prescribed levels
10	The industry shall take adequate measures for control of noise from its own source so as to comply with the standards as may be applicable. Noise Level should not exceed dB (A) and. dB (A) during daytime and night times respectively	Complied. Adequate measured taken to control the noise from its own source. Noise monitoring is been done monthly and values are within the prescribed standards
11	DG Sets shall meet the noise and air emission standards prescribed under The Environment (Protection) Rules, 1986 and shall be provided with integral acoustic enclosure. The applicant shall comply with order of Hon'ble National Green Tribunal dated 11.05.2015 in Appeal No. 12(Tsc) of 2013, Original Application No. 17(THC) of 2013 and Original Application No. 32(ITHC) of 2013 and implement all conditions in the CPCB Guidelines for DG Set. The DG set which are 15 years old or completed 50,000 Hours of Operation shall not be used	Agree to comply. DG Sets meets the noise and air emission standards prescribed under The Environment (Protection) Rules 1986 (Stack/Noise monitoring is been done quarterly/monthly and value are within the prescribed standards and provided with the required acoustic enclosure. The DG Sets which are 15 years old are been replaced in phased manner One number of DG Set replaced and two numbers will be replaced in this financial year 2025-26
12	The unit shall provide minimum stack height (H) to the DG sets as per the formula H = h + 0.2 SQRT (KVA) where KVA= total generation capacity and h= Height of the building where DG set is installed	Agree to comply. Stacks are modified & ensured for minimum stack height in phased manner i.e. during the DG Se replacement work
13 INA	The Industry shall take appropriate measures to ensure that the ground level concentration shall comply with revised National Ambient Air Quality Standards dated 16.11.2009 Inotified by MoEF&CC, GOI	Complied. Appropriate measures taken to ensure that the ground level concentration comply with revised

		National Ambient Air Quality Standards. Monthly monitoring is been done monthly and values are within the prescribed levels
14	There shall not be any be perceptible odour outside the industry's premises	Complied. There is no perceptible odour outside the industry's premises
15	Any change in the emission source/process/Air Pollution Control System/fuel shall be brought to the notice of this Authority in writing and fresh consent has to be obtained, as required	Agree to comply
16	The unit shall submit the Environmental Statement in Form V before 30 th September every year as per the Rule No. 14 of the E(P) Rules, 1986 & Amendments	Complied. Last Environment Statement - Form V was submitted on 23 SEP 2025 (Ref. No.: CSL/KKL/EN/F5/2025/SEP/491)
17 (a)	Specific Conditions: Consent Validity: (i) The Section "Consent Validity" at Page No. 1 of this Consent Order is not applicable (ii) This Air Consent (To Operate/Renewal) Order is valid up to 31.03.2029 (iii) The Project Proponent shall apply for renewal of this Consent Order, before 120 Days of the Expiry of this Consent Order, as imposed vide (1) above, in prescribed formats, via online portal of this Committee – www.ponocmms.nic.in, along with relevant attachments and consent fees. No Other mode of application shall be entertained	Agree to comply
(b)	This Air Consent Order (to Operate/Renewal) is issued integrating Consent to Operate/Renewal towards Application Nos. 402166, 320706, 377118 and 421800 dated 19.12.2023, 02.01.2023, 17.08.2023 and 23.02.2024, including Consent to Operate for the Marine Terminal Facility (repair and replacement 6" to 8" dia of Caustic Soda pipeline and Maintenance of the Ethylene pipeline), newly installed Caustic Concentration Unit and DG Set and newly installed Incinerator system, respectively	Noted.
(c)	Conditions for Caustic Soda and Ethylene Di chloride Manufacturing: The caustic soda manufacturing shall be carried out in Electrolysers (A, B, C, D) with output capacity of 165 TPD	Complied. The Caustic Soda manufacturing is carried out in Electrolysers (A, B, C, D) with output capacity of 165 TPD
(d)	The fuel used for Caustic Soda Flakes production in the Fusion Furnace shall be Hydrogen Gas only, for heating of the Molten Salt and the quantity of Hydrogen Gas used shall not exceed 1100 Nm3/Hr., at any point of time	Complied. Fuel used for Caustic Soda Flakes production is Hydrogen Gas only and its consumption is within the limits
(e)	Chlorine gas produced in plant shall be stored in Bullet Storage Tanks (4 Nos + 1 No standby), (Water Capacity:	Complied. Chlorine gas produced in plant are stored in Bullet Storage Tanks only

(f)	The Ethylene Gas (C ₂ H ₄) shall be stored with utmost safety and precautions, as per the provisions of Acts and Rules, prevailing till date, as applicable	Complied. Ethylene is stored in double walled storage tank with pressure/ temperature monitoring system and dedicated fire hydrant/sprinkler
(g)	The Vent gases from Ethylene Storage Tank and System for Maintenance Operations of Cryogenic conditions shall be properly burnt using Flare provided with the same	Complied. Forced draught flare with smokeless blower system is available
(h)	The fuel used in flare system shall be Kerosene/Natural gas/Hydrogen	Agree to comply
(i)	Adequate number of Ethylene Gas (C ₂ H ₄) Sensors shall be provided around the Ethylene Gas (C ₂ H ₄) Storage tank and Ethylene-Di-Chloride (C ₂ H ₄ Cl ₂) plant and the same shall be closely monitored, to prevent any fire or explosion hazards	Complied. Sixteen numbers of Ethylene Gas Sensors are provided and are closely monitored though DCS system
(j)	The unreacted gases consisting of Ethylene Gas, Chlorine Gas shall be scrubbed with Caustic Scrubber to remove excess Chlorine Gas and then the remaining unreacted Ethylene Gas (C ₂ H ₄), shall be incinerated in the incinerator	Complied. Unreacted gases are scrubbed with Caustic Scrubbers and remaining is incinerated regularly
(k)	The fuel used in the incinerator shall be Super Kerosene/ Hydrogen/Natural Gas. The maximum consumption of Super kerosene shall not exceed 1000 LPD	Complied. The fuel used in the incinerator is Super Kerosene or Hydrogen or Natural Gas
(1)	The emissions from incinerator shall be passed through Waste Heat Recovery Boiler (2.6 TPH), 3 Nos of water scrubbers and let out through Stack No. 4	Complied. The emissions from incinerator is passed through WHR Boiler, scrubbers and let out through the stack
(m)	The unit shall ensure the connectivity and maintain the Online Continuous Emission Monitoring System (OCEMS), as per the guidelines of the CPCB, regularly, for seamless transfer of data, of the 16 Nos. of strategically placed Ambient Chlorine Sensors, Chlorine Sensors at the Stacks, and the Particulate Matter, Sulphur di oxide and Oxides of Nitrogen from the Boilers, etc., to the servers of this Committee, which is viewable via https://ppcc.glensserver.com1PPCC_ONLINE/index.html and the CPCB, New Delhi, without interruption, synced in Cloud based system, of the Glens Server	OCEMS maintained as per CPCB Guidelines. Our CARE Air system is in continuous connection with the PPCC/CPCB servers through
(n)	The industry shall take adequate measures for control of noise from its own source so as to comply with the standards as may be applicable. Noise Level should not exceed 75 dB (A) and 70 dB (A) during daytime and night times respectively	Adequate measured taken to control the noise from its own source. Noise
(o)	The unit shall engage an NABL Accredited Laboratory for conducting Ambient Air and Noise and Stack Emissions Monitoring and Analysis of Process/Boiler/DG Set Stacks and the reports of the same shall be submitted to this Committee, once every 3 months, as per the frequency of monitoring and inspections recommended by the CPCB	Complied. Monthly environmental monitoring is been done through NABL/MoEF&CC approved laboratory and reports are submitted to your good office regularly

(p)	The unit shall possess valid Public Liability Insurance under the provisions of Public Liability Insurance Act, 1991	Complied.
(q)	The unit shall comply with the provisions of Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 and shall regularly conduct On-site and Offsite Emergency Mock drills as applicable to the MAH units, for all the facilities under the unit including the Marine Terminal Facilities	Complied. Regular on & off site mock drills are conducted including our Marine Terminal Facility
(r)	Conditions for Marine Terminal Facility: Adequate no. of ethylene sensors shall be provided around the Marine Terminal Facility and the same shall be closely monitored, to prevent any fire or explosion hazards	Complied. Sixteen numbers of Ethylene Gas Sensors are provided and are closely monitored though DCS system
(s)	There shall be no any spillages of Caustic Soda Lye or any kind of Oil/Ballast Water/Chemicals from the moored ships into the coastal waters. If any such spillages occur, at any point of time, the responsibility of containment/cleaning/remediation of the same, lies solely on the unit	Complied. No spillages arises. If any occurs in future, the cleaning of the same is the sole responsibility of our unit
(t)	If any reversible/irreversible environmental damages or degradation occurs due to the operation of the Marine Terminal Facility, the unit is liable to carry out the rehabilitation of the damaged environment on the own cost and/or to bear the cost of the same, payable as environmental compensation, to this Committee, which may be worked out, specific to the occurrences of the event	Agree to comply
(u)	The unit shall comply with the conditions imposed by the Ministry of Environment, Forest and Climate Change, New Delhi, in its Environmental Clearance and the copy of the Compliance report shall be submitted to this Committee also, as and when submitted to the Ministry	Complied to all the conditions of MoEF&CC and copy of the half yearly compliance reports are submitted to PPCC regularly
(v)	The unit shall procure and keep the Oil Spill Tier I Equipment's ready to be deployed, at any point of time, if any such spills occur	Complied. All required Oil Spill Contingency Equipments are available and in ready to deploy condition during any spill
(w)	The unit shall notify this Committee, the details of the Ship and Shipment, as and when calls are proposed	Complied. All the shipment details are communicated regularly to your good office
(x)	The MTF shall put in place proper Oil Spill Disaster Contingency Plan as per the protocols and guidelines of the Indian Coast Guard and shall be strictly adhered to	Complied
(y)	The Storage Tanks of the Raw Materials, Intermediates and the Finished Goods shall be appropriately maintained for spillage free environment, with adequate containment/ emergency response plan	Complied. All dyke walls of storage tanks are built as per the said requirement to avoid contamination of land and to withstand any failure of tank structures or leaks
(z)	Conditions for Replacement of Old Incinerator system: The Emergency stack shall be operated in case of emergency conditions like power failure only. Preventive Maintenance schedule and error proof operation and maintenance SOP shall be generated and put to use at all	[] manyore] 7

	times. The operation of the Emergency Stack of the incinerator shall be recorded in a log book and copies of the same shall be submitted to this Committee, as and when demanded for	
(aa)	Conditions for Boiler (Capacity 8 TPH): The fuel used in the Boiler shall be Low Sulphur Heavy Stock (LSHS) and/or Hydrogen Gas only. The quantity of Low Sulphur Heavy Stock (LSHS) and Hydrogen Gas used shall not exceed 675 Kgs/Hr., and 50 Nm3/Hr., respectively, at any point of time	Complied. LSHS is used as a fuel in the Boiler and the consumption quantity are within the prescribed limits
(bb)	Conditions for Natural Gas based Captive Power Plant (8.5 MW): The fuel used in the power generators shall be Natural gas only	Complied. Generator is operated in Natural Gas only
(cc)	The flue gas from above plant shall be passed through Waste Heat Recovery Boiler (4.8 TPH) and let out through Stack No. 7 after meeting the emission limits stipulated under the Environment (Protection) Rules, 1986 as amended from time to time	Complied. Flue gas is passed through the WHR Boiler and then to a stack after meeting the required emission standards
(dd) i)	Implementation Schedule: The old caustic concentration unit shall be dismantled immediately after commencement of operations of the new caustic concentration unit	Agree to comply. Dismantling is under progress
ii)	The old Incinerator system in the EDC unit shall be dismantled immediately after commencement of operations of the new incinerator system	Agree to comply. Dismantling is under progress
iii)	The unit shall carry out air pollution dispersion modelling studies for venting of air emissions from emergency stack during power failure scenario and validate the height of the stack provided for release of any unreacted gas from incinerator	Complied. 'Dispersion Modelling Study for Incinerator Stack and its Emergency Stack' is completed by M/s. Aqua-Air Environmental Engineers Private Limited in SEP 2025, report attached
iv)	The project proponent shall provide Retrofit Emission Control Devices as per the "System and Procedure for Emission Compliance Testing of Retro-fit Emission Control Devices (RECD) For Diesel Power Generating Set Engines Up to Gross Mechanical Power 800 kW" report of CPCB dated 01.02.2022, within 6 months from the date of issue of this consent order and shall submit compliance report to this Committee	Agree to comply. We will replace all DG Sets, which are 15 years old or completed 50,000 Hours of Operation in phased manner. The new DG Sets will be of CPCB IV+ Model and are designed for lower PM emissions it is like upgrading from BS IV to BS VI on the highway segment thus do not require installation of RECD One number of DG Set replaced and two will be replaced in this financial year 2025-26
1	GENERAL CONDITIONS: Notwithstanding anything contained in this Consent to Establish, the Puducherry Pollution Control Committee hereby reserves its right and power under Section 27 (2) of the Water (Prevention and Control of Pollution) Act, 1974	STSANA

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	and Section 21 (4) of the Air (Prevention and Control of Pollution) Act, 1981 to revoke any or all the conditions imposed herein and to modify or stipulate additional conditions	
2	The applicant shall not undertake any expansion, modernization, diversification, change of location, change of process, change of products etc., without the prior approval /clearance from this authority	Agree to comply
3	The Green Belt shall be designed and maintained to achieve attenuation factor conforming to the day and night noise standards prescribed for land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable indigenous perennial varieties with specific reference to climate and soil conditions and maintained	Complied. Green Belt is maintained as per the requirement. Open spaces inside the plant is suitably landscaped and covered with vegetation
4	The Bio-degradable Solid Waste generated shall be properly collected, segregated and disposed through composting or Bio-methanation within the premises	Agree to comply
5	The Non-Bio-degradable Solid Waste shall be handed over to the concerned Municipality/Commune Panchayats. Dumping the same on land or in any water bodies is strictly prohibited	Agree to comply
6	The organic sludge from the secondary aeration process of Sewage/Effluent Treatment Plants shall be composted along with other Bio- degradable solid waste and shall be used as manure for the green belt development	Complied. Sludge from STP are used as manure for the green belt development
7	All Hazardous wastes shall be stored and disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining necessary authorization from the PPCC	Complied. All Hazardous Wastes are stored and disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining necessary authorization from the PPCC
8	The Plastic Waste generated shall be segregated and shall be disposed through authorized recyclers only	Agree to comply
9	The Project Proponent shall not use any items prohibited under the Notification on Ban of Single Use Plastics, vide G.O. Ms. No. 18/Envt./2019, Puducherry dated 30 th July, 2019 and Plastic Waste Management (2nd Amendment) Rules, 2022, notified by MoEF&CC, GOI., failing which, enforcement action, as deemed fit, will be initiated, as per the provisions of the Environment (Protection) Act, 1986, along with its amendments, from time to time	Agree to comply
10	The project proponent shall ensure that, e-Waste generated shall be collected and segregated suitably and shall be channelized to authorized collection centers or registered dismantlers or recyclers or shall be returned back to pick up by the take back services provided by its producers, conforming to the E- Waste (Management) Amendment Rules, 2018, as amended from time to time	Complied. E-Waste generated are managed as per 'The E- Waste (Management) Amendment Rules, 2018' and disposed to authorized recyclers

11	The project proponent shall ensure that, the used batteries are not disposed of in any manner, other than depositing with the dealer, manufacturer, importer, assembler, registered recycler, reconditioner or at the designated collection centers, confirming to the Batteries Waste Management Rules, 2001, as amended from time to time	Complied. Used batteries are disposed to the registered recycler confirming to 'The Batteries (Management & Handling) Rules, 2001'
12	Appropriate rainwater harvesting structures shall be installed for maximizing collection and reuse of rain water and/or recharge of ground water	Complied. Rainwater is been collected and reused in our process whenever available
13	Solar street lighting shall be provided for illumination of common areas, lighting for gardens, community recreational areas, in addition to the Solar Water Heaters	Complied
14	Traffic congestion at the entry and exit points from the roads adjoining the proposed site shall be avoided. The parking shall be fully internalized and no public space shall be utilized for the same	Complied
15	The project proponent shall make separate allocation of funds for the installation and maintenance of proper pollution and environmental measures and earmark separate staff for operation and maintenance of the control system	Agree to comply
16	Energy efficient lighting systems like LED's and energy efficient equipment with star rating shall be installed for energy conservation	Complied. Installation details FY 2024-25 are as follows., LED Lights – 255 Nos. IE3 Motors – 50 Nos. VFDs – 13 Nos.
17	Used CFL's/TFL's/LED's should be properly collected and disposed off/sent to for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid toxic contamination	Agree to comply
18	5% of power requirement of the unit shall be met out from renewable energy sources within period of three years as per PPA Building Bye-Laws vide G.O.Ms.No.5/2012 dt., 05.03.2012, as applicable	Agree to comply
19	The building shall comply with requirements of the Energy Conservation Building Code (ECBC), as applicable	Agree to comply
20	The applicant shall take all possible measures to create pollution free surroundings. Housekeeping shall be maintained clean. Sufficient green belt shall be provided all around the unit	Complied. Pollution free surroundings are maintained by regular housekeeping and through sufficient green belt
21	This Consent Order shall be exhibited in the office room and must be made available to the inspecting officers of this	Complied. Consent Order is exhibited in the
21	Committee	office room and is available to the inspecting officers

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Water Consent Order (To Operate/Renewal)

Ref. No.: (402166)/(2025) dated 03 JAN 2025

#	Conditio	ns specified	in Consent	order	Compliance status	
1	Notwith	Notificatio	nything con	tained in any rance is given		
2	Details o	of Products	and By-prod	Complied.		
	S. No.	Description Main products Manu		Quantity	unit	Only the listed products are
	а			actured		manufactured and within the
	1	Caustic So (including Soda Flak 19162.5	g Caustic es -	54750	TPA	specified quantity
	2	Chlorine	Gas	48181	TPA	
	3	Hydroger	n Gas	1387	TPA	
	4	Hydrochl	oric Acid	16425	TPA	
	5	Sodium Hypo Chlorite		10950	TPA	
	6	Ethylene	di chloride	84000	TPA	
	7	Natural gas based captive power plant(with standby engine)		8.5	MW	
	b	By-produ	ct	-		
	1	No by-product		0		*
3	Dataile	f Water Co.	ncumption:			Agree to comply
3	Details of Water Con Water Requirement for		Quantity	Water Sou	ırce	Agree to comply
	Process		520.0	PASIC Auti Borewell/I Plant (3 M	Desalination	
	Cooling		968.0	PASIC Auti Borewell/I Plant (3 M	Desalination	
	Boiler	Boiler		PASIC Authorised Borewell/Desalination Plant (3 MLD)		
	Floor a Washir	nd Vessel	32.0	PASIC Auti Borewell/I Plant (3 M	Desalination	GT SAN
	Domes	tic Use	15.0	PASIC Auti Borewell/I	horised Desalination	Q WELMANJORE Z

		Plant (3 MLD)
Garden	38.0	PASIC Authorised Borewell/Desalination Plant (3 MLD)/STP Treated water
Total	1763	

The applicant shall have the following outlets with maximum 4 discharge quantities and disposal point as specified in the table for discharge of sewage/trade effluent. Any change in the outlets has to be brought to the notice of the Board and

Outl et No.	Descript ion of Outlet	Maximum daily discharge in KLD	Point of disposal
i.	Sewage	13.0	Shall be treated in existing STP of 50 KLD and the treated water shall be used for gardening after conforming to the prescribed standards
2	Trade Effluent	14.0	Shall be treated in existing ETP and shall entirely be recycled into process
3	Trade Effluent	70.0	The Reject of the existing RO Plant shall be recycled back to the Desalination Plant (3 MLD) and there shall be no any discharge in and around the unit
4	Trade Effluent	1800.0	The Rejects of the Existing 3 MLD Desalination Plant shall be let out to the back waters of Paravadayan River, after conforming to the standards prescribed in the

Agree to comply.

With reference to our previous CTO (R) dated 20 NOV 2019 (reference 1 above), our total Effluent discharge is 85 KLD i.e. 14 KLD from the Caustic Soda & Other By-products Manufacturing and 71 KLD from Ethylene Di Chloride Plant. Hence, Trade effluent in outlet quantity shall be amended to 85 KLD



				GSR 7 dated 22.12.1998 of the Environment (Protection) Act, 1986.	
5	treatm Tertiar quality as to followi	ent plant shalent plant con y treatment as and operate a achieve the q ng standards be	Plant is available and is operated 8 maintained continuously		
	S. No.	Name	Concentrati on Standard		
	1	Not Applicable	Not Applicable	Not Applicable	
6	The applicant shall provide, complete treatment plant as is warranted with requality and operate and maintain the state of		th reference to influent e same continuously so ed waste water to the if applicable): n Mass standard to be complied	Comprehensive Sewage Treatment Plant is available and is operated &	
	1	На	5.5 - 9.0	(if applicable)	
	2	BOD, 3 days, 27 deg.C	10 mg/l	-	
	3	Suspended Solids (mg/l)	20 mg/l	-	
	4	COD	50 mg/l	-	
	5	N- Total	10 mg/l	-	
	6	Total Phosphoro	1.0 mg/l	5 5 0	
		us			
	7	us Fecal Coliform(F C)	Desirable 100 MPN/100 ml, Permissible 2: MPN/100 ml		
7		Fecal Coliform(F C)	MPN/100 ml, Permissible 2 MPN/100 ml	30	Complied.
7		Fecal Coliform(F C)	MPN/100 ml, Permissible 2: MPN/100 ml to be provided	is as follows:	Our existing ETP is of 100 KLC Capacity, which is capable o
7	The de S. No.	Fecal Coliform(F C) tails of STP/ETP Treatment un	MPN/100 ml, Permissible 2: MPN/100 ml to be provided nit No. of	is as follows: Dimension (in meter)	Our existing ETP is of 100 KLC Capacity, which is capable of treating our daily treated effluent
7	The de S. No.	Fecal Coliform(F C) tails of STP/ETP Treatment un	MPN/100 ml, Permissible 2: MPN/100 ml to be provided nit No. of unit lant Capacity: 5	is as follows: Dimension (in meter)	Our existing ETP is of 100 KLD

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	. 1	Effluent Treatment Plant	1	As per Design		
8	garden	eated waste water sl ling, toilet flushing ar possible	Complied. Treated waste waters are reused inside the factory premises itself			
9		TP/STP units shall be pollution	Complied. ETP/STP units are impervious to prevent ground water pollution			
10	system storm good	vashing shall be adm only and shall not drains or open are housekeeping both es. All pipe valves,	Agree to comply			
11	collect	hemical sludge fro ed, stored in the HD ough authorized pers	PE barrel			Complied. Sludge are properly collected, stored and properly disposed off through authorized person
12	There premis	shall be no percepti es	Complied. There is no perceptible odour outside the industry's premises			
13	outlet	nit shall provide dig of the treatment pl ined in log book	Complied. Digital flow meters are available and records are maintained			
14		te energy meter shal records shall be mai			and	Agree to comply
15	The un separa Sewage	it shall provide an al te energy meter fo e Treatment Plant to eatment Plant	ternate po r the Efflu	wer source along tent Treatment Pl	ant/	Agree to comply
16	be pres	applicant shall me inption by fixing up we scribed and shall furr before 5th of eve ons of Water (Preve ules, 1978, if applicat	Not applicable			
17	Form \	plicant shall submit / before 30th Septer of the E(P) Rules, 198	Complied. Last Environment Statement - Form V was submitted on 23 SEP 2025 (Ref. No.: CSL/KKL/EN/F5/2025/SEP /491)			
18 (a)	Validity (i) The Conser (ii) Thi Operat (iii) Th Conser	Conditions: y of Consent: Section "Consent of Order is not applicate is Water Consent (se is valid up to 31.03 be Project Proponent of Order, before 120 as imposed vide (1)	Noted. Agree to comply			

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	online portal of this Committee – www.ponocmms.nic.in, along with relevant attachments and consent fees. No Other mode of application shall be entertained	
(b)	This Water Consent Order (to Operate/Renewal) is issued integrating Consent to Operate/Renewal towards Application Nos. 402166, 320706, 377118 and 421800 dated 19.12.2023, 02.01.2023, 17.08.2023 and 23.02.2024, including Consent to Operate for the Marine Terminal Facility (repair and replacement 6" to 8" dia of Caustic Soda pipeline and Maintenance of the Ethylene pipeline), newly installed Caustic Concentration Unit and DG Set and newly installed Incinerator system, respectively	
(c)	The water requirement shall be met out from the existing PASIC Borewell at the premises of the unit and the water drawl capacity shall not exceed 650 KLD	
(d)	The unit shall maintain the Flow Meter attached to the Borewell and the readings of the same shall be recorded in a logbook, which shall be made available to the inspecting officials, as and when called for	
(e)	R.O Plant of capacity 260 KLD shall be operated to meet the domestic water requirements of the entire plant and the Colony. The Reject of the RO Plant, generated to a quantum of 70 KLD, shall be recycled to the Desalination Plant	Complied. Consumption is within the prescribed limits and ZLD system is maintained regularly
(f)	The Sea Water consumption for the Desalination Plant shall not exceed 3000 KLD. The Utility water requirement of the entire plant shall be met out from the Permeate water of 1200 KLD from the same	Complied. Water consumption for the Desalination Plant is within 3,000 KLD
(g)	The Reject of the Desalination Plant, generated to a quantum of 1800 KLD, shall be let into the Back Waters of the Paravadayan River, using appropriate diffusers, at the appropriate dilution levels	Reject water of the Desalination
(h)	The general standards for discharge of environmental pollutants into marine/coastal areas stipulated under Schedule VI Part A of the Environment Protection Rules, 1986 as amended shall be strictly complied for disposal of desal reject wastewater	
(i)	The following Primary Water Quality Criteria for Class SW-I Waters stipulated under the Environment (Protection) Rules, 1986 for coastal water marine outfalls shall be complied with: i) pH - 6.5 - 8.5 ii) Dissolved Oxygen (DO) - 5.0 mg/I iii) Colour - No noticeable colour and odour iv) Odour - No noticeable colour and odour v) Floating Material - No obnoxious or detrimental for use purpose vi) Suspended Solids - None from the Sewage and/ or Industrial Origin vii) Oil and Grease - 0.1 mg/I viii) Mercury (As Hg) - 0.1 mg/I	Complied. Reject water quality is maintained & monitored regularly and are within given standards

	ix) Lead (As Pb) - 0.1 mg/1 x) Cadmium (As Cd) 0.1 mg/I	
(j)	The wastewater generated from all caustic soda plant, Ethylene dichloride plant, power plant cooling water discharge shall be treated in ETP (20 KLD) and recycled back to process	Complied. Our existing ETP is of 100 KLI Capacity, which is capable of treating our daily treated effluen quantity of 85 KLD. Hence, ET capacity shall be amended to 10 KLD
(k)	The unit shall ensure connectivity of Online Continuous Effluent Monitoring Systems as per the SOP prescribed by the CPCB, at all times. The discrepancies shall be notified immediately to this Committee and CPCB through email. The flow meter readings of ETP Inlet, Outlet, and totalizer with camera provisions shall be connected to servers of PPCC and CPCB	Complied. OCEMS maintained as per CPC Guidelines. Our CARE Air system in continuous connection with th PPCC/CPCB servers throug Glens/ENVEA servers
(1)	The unit shall engage an NABL Accredited Laboratory for conducting Monitoring and Analysis of STP Outlet and Desalination Plant Outlet and the reports of the same shall be submitted to this Committee, once every month	Complied. Monthly environmental monitorin is been done through NABL MoEF&CC approved laboratory an reports are submitted to your goo office regularly
(m)	The Hazardous Waste like waste oil, Waste or residues containing oil, Ion exchange resins and empty liner/container shall be disposed to authorised agencies/disposal facility of Hazardous waste	Complied. Hazardous wastes are disposed t authorised agencies/disposal facilit
(n)	The unit shall dispose Brine sludge to authorised TSDF facility/authorised re-processor unit manufacturing bricks from brine sludge. The unit shall comply with the CPCB SOP for Utilisation of Brine sludge	Agree to comply. Brine Sludge is disposed to authorized TSDF and to an authorised re-processor unit manufacturing bricks from sludge
(0)	In the Marine Terminal Facility, there shall be no spillages of Caustic Soda Lye or any kind of Oil/Ballast Water/ Chemicals from the moored ships into the coastal waters. If any such spillages occur, at any point of time, the responsibility of containment/cleaning/remediation of the same, lies solely on the unit	Complied. No spillages arises. If any occurs i future, the cleaning of the same the sole responsibility of our unit
(p)	If any reversible/irreversible environmental damages or degradation occurs due to the operation of the Marine Terminal Facility, the unit is liable to carry out the rehabilitation of the damaged environment on their own cost and/or to bear the cost of the same, payable as environmental compensation, to this Committee, which may be worked out, specific to the occurrences of the event	Agree to comply
(q)	The MTF shall put in place proper Oil Spill Disaster Contingency Plan as per the protocols and guidelines of the Indian Coast Guard and shall be strictly adhered to	Complied
ATA DE LUCRE TO	The Storage Tanks of the Raw Materials, Intermediates and the Finished Goods shall be appropriately maintained for spillage free environment, with adequate containment/emergency response plan	Complied. All dyke walls of storage tanks ar built as per the said requirement t avoid contamination of land and t

		withstand any failure of tank structures or leaks		
(s)	Bulk Storage Tanks of Caustic Soda Lye, Sulphuric Acid and Hydrochloric Acid shall be provided with adequate safety measures, such as, dyke walls, forming an outer concentric tank; provided with anticorrosive impervious flooring, of capacity at least 1.5 times the capacity of the respective storage tank, to avoid contamination of surround land, in case of any failure of tank structures or leaks occurs	Complied. All dyke walls of storage tanks are built as per the standards to avoid contamination of land and to withstand any failure of tank structures or leaks		
(t)	The Special Condition No. 16 related to water cess mentioned above in this consent order is not applicable and shall be ignored.	Noted		
1	GENERAL CONDITIONS: Notwithstanding anything contained in this Consent to Establish, the Puducherry Pollution Control Committee hereby reserves its right and power under Section 27 (2) of the Water (Prevention and Control of Pollution) Act, 1974 and Section 21 (4) of the Air (Prevention and Control of Pollution) Act, 1981 to revoke any or all the conditions imposed herein and to modify or stipulate additional conditions	Agree to comply		
2	The applicant shall not undertake any expansion, modernization, diversification, change of location, change of process, change of products etc., without the prior approval/clearance from this authority	Agree to comply		
3	The Green Belt shall be designed and maintained to achieve attenuation factor conforming to the day and night noise standards prescribed for land use. The open spaces inside the plot shall be suitably landscaped and covered with vegetation of suitable indigenous perennial varieties with specific reference to climate and soil conditions and maintained	Complied. Green Belt maintained as per the requirement. Open spaces inside the plant is suitably landscaped and covered with vegetation		
4	The Bio-degradable Solid Waste generated shall be properly collected, segregated and disposed through composting or Bio-methanation within the premises	Agree to comply		
5	The Non-Bio-degradable Solid Waste shall be handed over to the concerned Municipality/Commune Panchayats. Dumping the same on land or in any water bodies is strictly prohibited	Agree to comply		
6	The organic sludge from the secondary aeration process of Sewage/Effluent Treatment Plants shall be composted along with other Bio- degradable solid waste and shall be used as manure for the green belt development	Complied. Sludge from STP are used as manure for the green belt development		
7	All Hazardous wastes shall be stored and disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining necessary authorization from the PPCC	Complied. All Hazardous Wastes are stored and disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 after obtaining necessary authorization from the PPCC		

8	The Plastic Waste generated shall be segregated and shall be disposed through authorized recyclers only	Agree to comply
9	The Project Proponent shall not use any items prohibited under the Notification on Ban of Single Use Plastics, vide G.O. Ms. No. 18/Envt./2019, Puducherry dated 30th July, 2019 and Plastic Waste Management (2nd Amendment) Rules, 2022, notified by MoEF&CC, GOI., failing which, enforcement action, as deemed fit, will be initiated, as per the provisions of the Environment (Protection) Act, 1986, along with its amendments, from time to time	
10	The project proponent shall ensure that, e-Waste generated shall be collected and segregated suitably and shall be channelized to authorized collection centers or registered dismantlers or recyclers or shall be returned back to pick up by the take back services provided by its producers, conforming to the E- Waste (Management) Amendment Rules, 2018, as amended from time to time	
11	The project proponent shall ensure that, the used batteries are not disposed of in any manner, other than depositing with the dealer, manufacturer, importer, assembler, registered recycler, reconditioner or at the designated collection centers, confirming to the Batteries Waste Management Rules, 2001, as amended from time to time	Complied. Used batteries are disposed to the registered recycler confirming to 'The Batteries (Management & Handling) Rules, 2001'
12	Appropriate rainwater harvesting structures shall be installed for maximizing collection and reuse of rain water and/or recharge of ground water	
13	Solar street lighting shall be provided for illumination of common areas, lighting for gardens, community recreational areas, in addition to the Solar Water Heaters	Complied
14	Traffic congestion at the entry and exit points from the roads adjoining the proposed site shall be avoided. The parking shall be fully internalized and no public space shall be utilized for the same	Complied
15	The project proponent shall make separate allocation of funds for the installation and maintenance of proper pollution and environmental measures and earmark separate staff for operation and maintenance of the control system	Agree to comply
16	Energy efficient lighting systems like LED's and energy efficient equipment with star rating shall be installed for energy conservation	
17	Used CFL's/TFL's/LED's should be properly collected and disposed off/sent to for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid toxic contamination	Agree to comply

18	5% of power requirement of the unit shall be met out from renewable energy sources within period of three years as per PPA Building Bye-Laws vide G.O.Ms.No.5/2012 dt., 05.03.2012, as applicable	Agree to comply
19	The building shall comply with requirements of the Energy Conservation Building Code (ECBC), as applicable	Agree to comply
20	The applicant shall take all possible measures to create pollution free surroundings. Housekeeping shall be maintained clean. Sufficient green belt shall be provided all around the unit	Complied. Pollution free surroundings are maintained by regular housekeeping and through sufficient green belt
21	This Consent Order shall be exhibited in the office room and must be made available to the inspecting officers of this Committee	Complied. Consent Order is exhibited in the office room and is available to the inspecting officers
22	All the conditions shall be enforced under the provisions of the Environment (Protection) Act, 1986, along with its amendments, from time to time	Agree to comply

"Dispersion Modelling Study for Incinerator Stack and it's Emergency Stack"

At Chemplast Sanmar Limited, Karaikal



Prepared by:



Aqua-Air Environmental Engineers Pvt. Ltd. 403-404, Centre Point, Ring Road, Jay Prakash Narayan Marg, near Kadiwala School, Sagrampura, Surat, Gujarat 395002

September – 2025

Introduction

Chemplast Sanmar Limited (hereafter referred to as 'CSL') is the flagship company of Sanmar Group, which is one of the largest industrial firms in the Southern Part of India. The Sanmar Group manages over 30 businesses that are grouped under various industry segments viz., Chemicals, Engineering, Shipping and Metals and most prominent corporate groups in South India.

At Karaikal, CSL is engaged in manufacturing Caustic Soda & Ethylene Di Chloride (EDC) - an intermediate for PVC at its manufacturing plant located in Vanjore Village, T.R Pattinam Commune, Karaikal.

Need for the Study

To carry out the dispersion modelling study for the Incinerator Stack and it's Emergency Stack during power failure scenario and to validate the height of the stack provided for release of any unreacted gas from incinerator using Industrial Source Complex – Short Term (ISCST3) dispersion model Software.

Methodology of Modelling

Predictions and Evaluation of Impacts

An impact can be defined as any change in physical, chemical, biological, cultural and/or socioeconomic environment that can be attributed to activities related to alternatives under study for meeting the project needs. Impact methodology provides an organized approach for prediction and assessing these impacts. Scientific techniques and methodologies based on mathematical modeling are available for studying the impacts of various project activities on environmental parameters.

The nature of the impacts due to said project activities are discussed here in detail. Each parameter identified in the proceeding chapter, is singularly considered for the anticipated impact due to various activities listed. The impact is quantified using numerical scores 0, 1, 2, 3, 4 and 5 in increasing order of activity. To assess the impact accurately, each parameter is discussed in detail covering the following:

- 1) Project activities likely to generate impact
- 2) Quantification and prediction of impact

Air Environment

The dispersion of pollutants in the atmosphere is a function of several meteorological parameters, viz. temperature, wind speed and direction, mixing depths, inversion level, etc. Several models have been developed for the prediction of pollutant concentration at any point from an emitting source. The Industrial Source Complex – Short Term (ISCST3) dispersion model is a steady-state Gaussian plume model. It is most widely accepted for its interpretability. It gives reasonably correct values because this obeys the equation of continuity and it also takes care of diffusion, which is a random process. For the present study, this model is used for the prediction of maximum ground level concentration (GLC).

The air emissions at M/s. Chemplast Sanmar Limited are PM, CO, SOx, NOx and Hg. The site specific and monitored details considered for input data for the software "ISC-AERMOD View" by Lakes Environmental, Canada for prediction of impact on air environment are given in Table. To conduct a refined air dispersion modeling using ISCST3 and ISC-PRIME short-term air quality dispersion models, the site specific hourly meteorological data measured at site is pre-processed using the U.S. EPA PCRAMMET and U.S. EPA AERMET programs. Before starting air dispersion modeling with ISC-AERMOD View, a building downwash analysis using BPIP View was done. BPIP View is a graphical user interface designed to speed up the work involved in setting up input data for the U.S. EPA Building Profile Input Program (BPIP) and Building Profile Input Program — Plume Rise Model Enhancements (BPIP-PRIME).

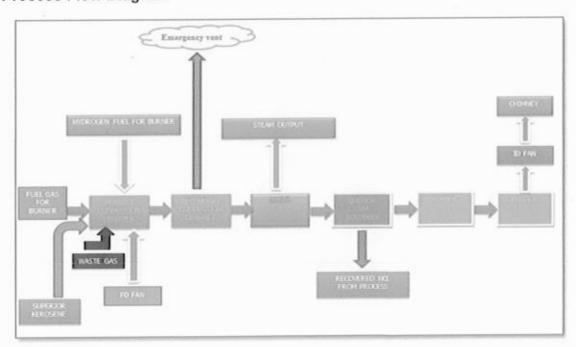
The air pollution caused by the gaseous emissions from a single or small group of stacks is a local phenomenon. Its impacts will occur at a distance ranging from within the immediate vicinity of the stack to several kilometers away from the stack. Maximum ground level concentration will occur within this range. All plumes at more downwind distances from the source by stack emission become so diluted by diffusion in the ambient atmosphere that concentrations of pollutants become negligible. The maximum ground level concentration for different parameters is given in Table. Equal concentration contour plots for PM, CO, SO_x, NO_x and Hg are given in Figure. Adequate measures should be taken to minimize air pollution by providing air pollution control equipment. Flue gases are discharged from stacks at adequate height (as per

PPCC norms). The methodology for Air Quality Modeling using AERMOD View model is given in Figure – 1.

Methodology for AQM

Figure - 1 Start Input of Hourly Meteorological Data like Relative Run AERMET Humidity, Hourly Precipitation, Wind Speed, Source of Emission Like Point Source: Input of Run Stack Height, Diameter, AERMOD Temperature, Velocity, **Emission Rate of** Generation of Isopleths & Maximum GLC Results

Process Flow Diagram



Process Description of Incinerator

The incinerator is a thermal oxidizer of a dual chamber design consisting of primary and secondary combustion chambers. In the primary combustion chamber, the inlet gases (VOC gases) are introduced into a firing box near the burners, and enough residence time is provided to get the desired destruction removal efficiency (DRE) of the VOCs. The incinerator is brought to its operating temperature by firing natural gas (fuel) or by kerosene or by hydrogen and combustion air. The waste gas will be allowed to enter the chamber once the pre-heating temperature is achieved. VOC gas is fed to the incinerator chamber for combustion through nozzles. An on/off valve is provided on both VOC and fuel gas lines.

The secondary combustion chamber is provided to ensure and maintain 2 second residence time for the flue gas as per Pollution Control Board requirements. All products of combustion from the chambers flow to a series of scrubbers to maintain the exit gas temperature and to ensure that the emission parameters, viz. CO₂, N₂, NO_x, H₂O, HCI, and PCCD/F are within the specified emission limits.

Similar thermal oxidizing incinerators have been used world over for air pollution control in many chemical plants and oil & gas fields to decompose hazardous gases at a high temperature (900°C to 1,150°C) before releasing them into the atmosphere. These pollutants are generally hydrocarbon based and when destroyed via thermal combustion, they are chemically changed to form CO₂ and H₂O. However, due to the chlorine load in the input gas stream, we have offered scrubbers to ensure final values are within limits.

Important factors which are considered for design of the incinerator are temperature, residence time and turbulence and mixing of combustion air with the waste gas. The chambers are horizontal cum vertical, cylindrical and lined with a special type of refractory with high alumina and low silica (required due to the possible reaction of HF with silica). The chamber volume ensures complete combustion of all organic pollutants. The chamber will be made of carbon steel conforming to IS:1062 with required thickness.

The chamber is maintained at a slightly negative pressure by interlocking a pressure transmitter to the induced draft fan. All the necessary instruments and valves are provided in vent gas, natural gas and instrument airline.

In the event of a power failure, hot gases are directly exhausted to the emergency stack, by passing the scrubber, preventing damage. Simultaneously water from the emergency water tank will flow into the scrubber to bring down the temperature.

A separate forced draft fan is provided for supply of combustion air to the chamber. The chamber will have two temperature controllers and combustion air flow to the chamber is varied depending on oxygen value measured in the stack.

A Waste Heat Recovery Boiler is provided to recover steam from the waste heat generated by the incineration process. A tube type boiler is provided for heat recovery. Flue gas from the secondary chamber at a temperature of 1,150°C enters the boiler and comes out at a temperature of 220°C.

The incinerator is also designed to recover HCl as a byproduct from the flue gas. Thus, the whole process will sustain itself due to recovery of heat and production of steam and HCl.

An ID fan (VFD driven) is provided to ensure negative pressure throughout the system and to discharge the flue gases through a stack. A 30-m stack is provided to release the cleaned flue gas to the atmosphere.

Inlet Gas Composition:

- Co2 0.7 % (Max)
- H2O 0 % (Max)
- O2 4.3 to 5 %
- N2 80- 85.3 %
- VOC- 9 to 12% (Majorly Ethylene, EDC & Ethly Chloride)
- HCI + CI2 0.8 to 1 %

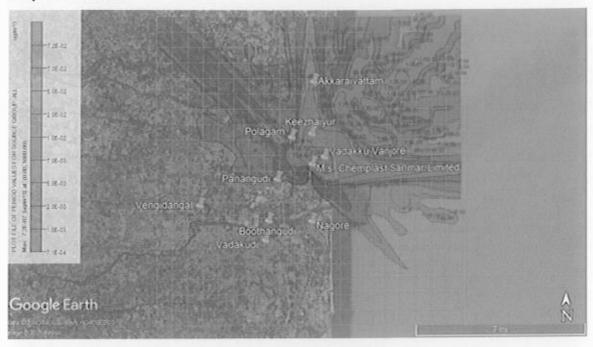
Details of Emission (30 Meter Stack Height - Incinerator Stack)

Sr. No.	Operating Parameter	Unit	Emergency Incinerator	
1.	Stack Height	Meter	30	
2.	Diameter	Meter	1.1	
3.	Flue Gas Temperature	°K	332	
4.	Air Pollution Control Equipment		Adequate Stack Height	
5.	Flue Gas Velocity	m/s	10.3	
6.	Emission Concentration* PM CO NOx SO2 Hg	mg/nm ³ (g/s)	10.7 (0.0939) 8.8 (0.0772) 106 (0.9308) 11.5 (0.1009) 0.03 (0.0002)	

Isopleths of PM



Isopleths of CO



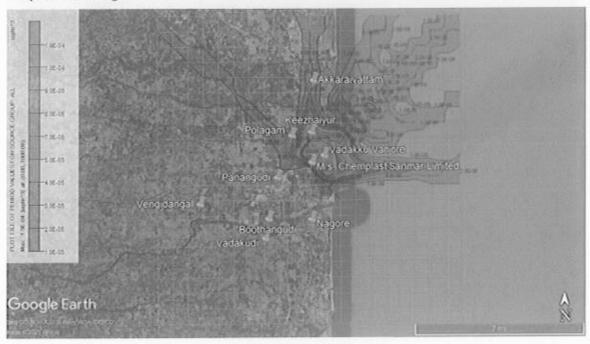
Isopleths of NOx



Isopleths of SO2



Isopleths of Hg



Predicted Summary of ISCST3 Model Output

Sr. No.	Locations	X, Y	Concentration					
		Co-Ordinates	PM (μg/m³)	CO (μg/m³)	NO _x (μg/m³)	SO ₂ (μg/m³)	Hg (μg/m³)	
1.	Project Site	(0, 0)	0.00000	0.00000	0.00000	0.00000	0.00000	
2.	Vadakku Vanjore	(759, 633)	0.07762	0.06382	0.76946	0.08341	0.00017	
3.	Keezhaiyur	(-127, 1899)	0.03467	0.02850	0.34367	0.03725	0.00007	
4.	Polagam	(-1266, 1772)	0.00413	0.00340	0.04097	0.00444	0.00001	
5.	Akkaraivattam	(127, 5443)	0.01363	0.01121	0.13512	0.01465	0.00003	
6.	Panangudi	(-2278, -1013)	0.00001	0.00001	0.00007	0.00001	0.00000	
7.	Nagore	(-127, -3544)	0.00000	0.00000	0.00000	0.00000	0.00000	
8.	Vadakudi	(-3165, -5063)	0.00000	0.00000	0.00000	0.00000	0.00000	
9.	Boothangudi	(-2911, -3671)	0.00000	0.00000	0.00000	0.00000	0.00000	
10.	Vengidangal	(-7342, -2785)	0.00000	0.00000	0.00000	0.00000	0.00000	

Resultant Ambient Air Quality

Sr. No.	Sampling	PM (μg/m³)			CO (μg/m³)		
	Location	AAQ Value	Predicated Model Value	Resultant Value	AAQ Value	Predicated Model Value	Resultant Value
1.	Project Site	77.59	0.00000	77.59	0.23	0.00000	0.23
2.	Vadakku Vanjore	59.63	0.07762	59.7076	BDL	0.06382	0.06382
3.	Keezhaiyur	62.13	0.03467	62.1647	BDL	0.02850	0.0285
4.	Polagam	63.71	0.00413	63.7141	0.15	0.00340	0.1534
5.	Akkaraivattam	70.58	0.01363	70.5936	BDL	0.01121	0.01121
6.	Panangudi	60.59	0.00001	60.59	0.27	0.00001	0.27001
7.	Nagore	79.54	0.00000	79.54	0.18	0.00000	0.18
8.	Vadakudi	60.09	0.00000	60.09	0.16	0.00000	0.16
9.	Boothangudi	73.5	0.00000	73.5	BDL	0.00000	0
10.	Vengidangal	61.8	0.00000	61.8	0.14	0.00000	0.14

Resultant Ambient Air Quality

Sr.	Sampling	NO _x (µ	.g/m³)		SO ₂ (μ	g/m³)	
No.	Location	AAQ Value	Predicated Model Value	Resultant Value	AAQ Value		Resultant Value
1.	Project Site	16.45	0.00000	16.45	10.25	0.00000	10.25
2.	Vadakku Vanjore	13.01	0.76946	13.7795	7.25	0.08341	7.33341
3.	Keezhaiyur	13.76	0.34367	14.1037	7.65	0.03725	7.68725
4.	Polagam	13.93	0.04097	13.971	6.82	0.00444	6.82444
5.	Akkaraivattam	14.61	0.13512	14.7451	6.76	0.01465	6.77465
6.	Panangudi	13.36	0.00007	13.3601	6.65	0.00001	6.65001
7.	Nagore	16.58	0.00000	16.58	8.38	0.00000	8.38
8.	Vadakudi	13.66	0.00000	13.66	6.48	0.00000	6.48
9.	Boothangudi	15.20	0.00000	15.2	7.58	0.00000	7.58
10.	Vengidangal	13.87	0.00000	13.87	7.2	0.00000	7.2

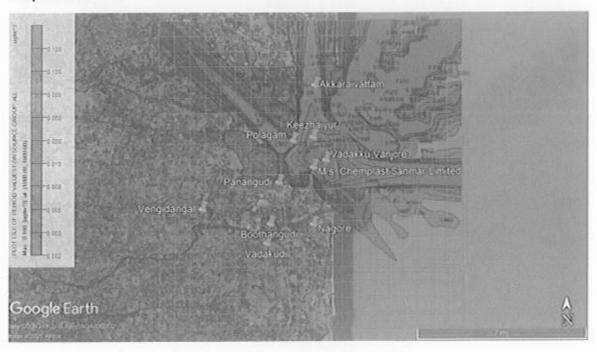
Resultant Ambient Air Quality

Sr.	Sampling	Hg (μg/m³)					
No.	Location	AAQ Value	Predicated Model Value	Resultant Value			
1.	Project Site	BDL	0.00000	0.00000			
2.	Vadakku Vanjore	BDL	0.00017	0.00017			
3.	Keezhaiyur	BDL	0.00007	0.00007			
4.	Polagam	BDL	0.00001	0.00001			
5.	Akkaraivattam	BDL	0.00003	0.00003			
6.	Panangudi	BDL	0.00000	0.00000			
7.	Nagore	BDL	0.00000	0.00000			
8.	Vadakudi	BDL	0.00000	0.00000			
9.	Boothangudi	BDL	0.00000	0.00000			
10.	Vengidangal	BDL	0.00000	0.00000			

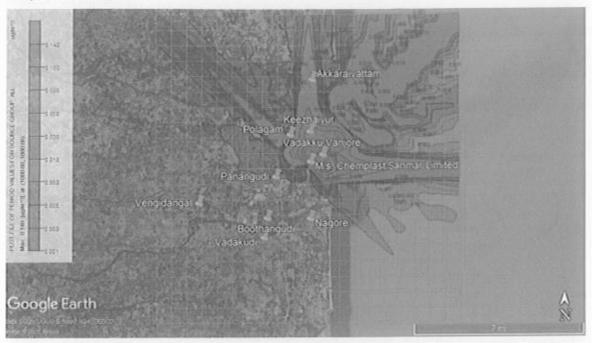
Details of Emission (11 Meter Stack Height – Incinerator Emergency Stack)

Sr. No.	Operating Parameter	Unit	Emergency Incinerator Stack
1.	Stack Height	Meter	11
2.	Diameter	Meter	1.1
3.	Flue Gas Temperature	°K	332
4.	Air Pollution Control Equipment		Adequate Stack Height
5.	Flue Gas Velocity	m/s	10.3
6.	Emission Concentration* PM CO NOx SO2 Hg	mg/nm ³ (g/s)	10.7 (0.0939) 8.8 (0.0772) 106 (0.9308) 11.5 (0.1009) 0.03 (0.0002)

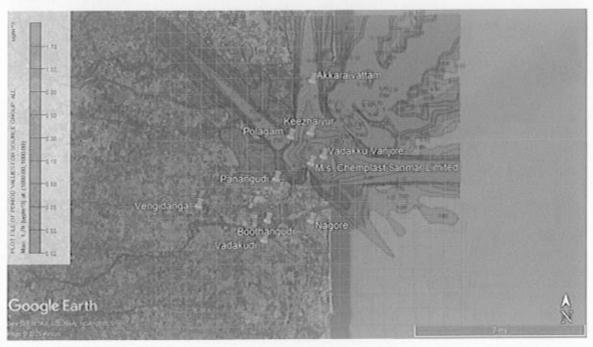
Isopleths of PM



Isopleths of CO



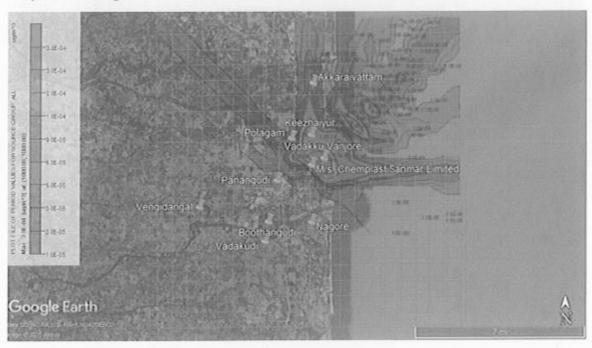
Isopleths of NO_x



Isopleths of SO₂



Isopleths of Hg



Predicted Summary of ISCST3 Model Output

Sr.	Locations	X, Y	Concentration						
No.		Co-Ordinates	PM (μg/m³)	CO (μg/m³)	NO _x (μg/m³)	SO ₂ (μg/m ³)	Hg (μg/m³)		
1.	Project Site	(0, 0)	0.00000	0.00000	0.00000	0.00000	0.00000		
2.	Vadakku Vanjore	(759, 633)	0.15408	0.12668	1.52732	0.16556	0.00033		
3.	Keezhaiyur	(-127, 1899)	0.06594	0.05421	0.65364	0.07086	0.00014		
4.	Polagam	(-1266, 1772)	0.00537	0.00442	0.05328	0.00578	0.00001		
5.	Akkaraivattam	(127, 5443)	0.02325	0.01912	0.23051	0.02499	0.00005		
6.	Panangudi	(-2278, -1013)	0.00001	0.00001	0.00007	0.00001	0.00000		
7.	Nagore	(-127, -3544)	0.00000	0.00000	0.00000	0.00000	0.00000		
8.	Vadakudi	(-3165, -5063)	0.00000	0.00000	0.00000	0.00000	0.00000		
9.	Boothangudi	(-2911, -3671)	0.00000	0.00000	0.00000	0.00000	0.00000		
10.	Vengidangal	(-7342, -2785)	0.00000	0.00000	0.00000	0.00000	0.00000		

Resultant Ambient Air Quality

Sr.	Sampling	РМ (µg	/m³)		CO (μg/m³)		
No.	Location	AAQ Value	Predicated Model Value	Resultant Value	AAQ Value	Predicated Model Value	Resultant Value
1.	Project Site	77.59	0.00000	77.59	0.23	0.00000	0.23
2.	Vadakku Vanjore	59.63	0.15408	59.7841	BDL	0.12668	0.12668
3.	Keezhaiyur	62.13	0.06594	62.1959	BDL	0.05421	0.05421
4.	Polagam	63.71	0.00537	63.7154	0.15	0.00442	0.15442
5.	Akkaraivattam	70.58	0.02325	70.6033	BDL	0.01912	0.01912
6.	Panangudi	60.59	0.00001	60.59	0.27	0.00001	0.27001
7.	Nagore	79.54	0.00000	79.54	0.18	0.00000	0.18
8.	Vadakudi	60.09	0.00000	60.09	0.16	0.00000	0.16
9.	Boothangudi	73.5	0.00000	73.5	BDL	0.00000	0
10.	Vengidangal	61.8	0.00000	61.8	0.14	0.00000	0.14

Resultant Ambient Air Quality

Sr.	Sampling	NO _x (μ	ıg/m³)		SO ₂ (µ	.g/m³)	
No.	Location	AAQ Value	Predicated Model Value	Resultant Value	AAQ Value	Predicated Model Value	Resultant Value
1.	Project Site	16.45	0.00000	16.45	10.25	0.00000	10.25
2.	Vadakku Vanjore	13.01	1.52732	14.5373	7.25	0.16556	7.41556
3.	Keezhaiyur	13.76	0.65364	14.4136	7.65	0.07086	7.72086
4.	Polagam	13.93	0.05328	13.9833	6.82	0.00578	6.82578
5.	Akkaraivattam	14.61	0.23051	14.8405	6.76	0.02499	6.78499
6.	Panangudi	13.36	0.00007	13.3601	6.65	0.00001	6.65001
7.	Nagore	16.58	0.00000	16.58	8.38	0.00000	8.38
8.	Vadakudi	13.66	0.00000	13.66	6.48	0.00000	6.48
9.	Boothangudi	15.20	0.00000	15.2	7.58	0.00000	7.58
10.	Vengidangal	13.87	0.00000	13.87	7.2	0.00000	7.2

Resultant Ambient Air Quality

Sr.	Sampling	Hg (μg/m³)					
No.	Location	AAQ Value	Predicated Model Value	Resultant Value			
1.	Project Site	BDL	0.00000	0.00000			
2.	Vadakku Vanjore	BDL	0.00033	0.00033			
3.	Keezhaiyur	BDL	0.00014	0.00014			
4.	Polagam	BDL	0.00001	0.00001			
5.	Akkaraivattam	BDL	0.00005	0.00005			
6.	Panangudi	BDL	0.00000	0.00000			
7.	Nagore	BDL	0.00000	0.00000			
8.	Vadakudi	BDL	0.00000	0.00000			
9.	Boothangudi	BDL	0.00000	0.00000			
10.	Vengidangal	BDL	0.00000	0.00000			

Conclusion:

Primary Combustion Chamber oxidizes all inlet gases at 1,150 degree C (around 99.9% will be oxidized), only the remaining gas will be going to the Secondary Combustion Chamber. Emergency vent/stack is attached to the Secondary Combustion Chamber only. During any blackout of all power supplies like PED, CPP & DG, only the oxidised volume of gas (free from VOCs & HCl, Cl2, CO2) present in the Primary & Secondary will be vented out.

Further, based on the Ground level concentrations calculated for the Incinerator Stack and its Emergency Stack are superimposed on existing ambient air quality monitoring results and the combined values are found well within the permissible National Ambient Air Quality Standards.

In conclusion, the air pollution dispersion modeling study for venting air emissions from the emergency stack during a power failure scenario indicates that there will be no adverse impact on the environment, as the model output values are well within the NAAQM standards. Furthermore, the height of the stack designed for the release of gases from the incinerator is deemed sufficient to ensure effective dispersion. These findings affirm Chemplast Sanmar Limited's commitment to environmental compliance and the safe operation of facilities.





Gaseous Emission Data - APR 25 to SEP 25

			Process Stacks			
		Caustic S	oda (Flaker), Hypo	& HCl Tower		
Parameters	APR	MAY	JUN	JUL	AUG	SEP
Cl2, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)
HCL, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)
			EDC Incinerator	r		
Cl2, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)
HCL, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)	BLQ (LOQ: 0.02)
Ethylene , mg/m3	BDL (DL 0.1)	BDL (DL 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)
EDC, mg/m3	BDL (DL 0.1)	BDL (DL 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)

* Sample reports attached





Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090054

Name of the Client

M/s. Chemplest Sanmar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002

Sample Name

Stack Emission

Sampling From

: 29-Aug-2025

Sample Description#

Stack Emission

Received Date

Sampling Location

Caustic Soda + Flaker Unit

: 02-Sep-2025

Commenced On

: 02-Sep-2025

Laritude

N-10°50'83.0"

Completed On

: 08-Scp-2025

Longitude

E-079 50'33.0"

Report Date

: 09-Sep-2025

Sample Subraission Type Sample Condition

Collected by Lab Representative Fit for Analysis

Sampling Plan and Method

GL/EN/SOP/111

Test Results

S. No. Parameters	Units	Results Obtained	Test Method	Specification
Discipline : Chemical				
Group - 1 Atmospheric Pollution				
Chlorine as C12	mg/Nm3	SEQUEX 0 02)	GLAN/SOP/153 Issue no & Dt 02/05/04	15 Mrs.
2 Acid Most as HC1	mgNm3	REQ(100) 8.02)	GL/EN/SOP/153 Issue no & Dr. 02/05/04	35 Mex

[#] represents Customer Defined Fields

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Remarks: The above Stack Complies as per CPCB norms with respect to the above tested parameters.

End of Report

Authorized By R. Abubacker Sithick Chemist

GLENS BINOVATION LA65 Pvt Ltd, BG/L,1 St Floor , Sri Jothi Complex Munugesen Street , Balavissyagar Negar , Arvestyakkem Crevnur 600109

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* The test report shall not be reproduced in full or part without the written approval of Glens.

Page 1 of 1

* The test items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.

* The Laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the invoiced amount.

*A Satisfactory test report in no way implies that the product tested is approved by NABL.



Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090682

Name of the Client

M/s. Chemplast Saranar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Pudocherry, Pincode-611002

Sample Name

Stack Emission

Sampling Prons

: 25-Sep-2025

Sample Description#

Stack Emission

Received Date

· 26-Sep-2025

Sampling Location

HCL Tower

Commenced On

26-Sep-2025

Latitude

N-10°50'76.2"

Completed On

: 06-Oct-2025

Latitude

E-79°50'17.1"

Report Date

- 06-Oct-2025

Sample Submission Type

Collected by Lab Representative

Sample Condition

Fit for Analysis

Sampling Plan and Method

GL/EN/SOP/111

Test Results

S. No	Parameters	Units	Results Obtained	Test Method	Specification
Discip	offine: Chemical				
Gree	: Pollution and Environm	cat			
1	Chloring as Cl2	ingNnJ	BEQUEOQ 6 023	GL/EN/SOP/153 Issue no & Dt 02/05/04	15 Max
2	Acid Mist as HCI	mg/Nm3	BLQ(LOQ 8.02)	GL/EN/SOP/153 Issue no & Dt. 02/05/04	35 Max.

[#] represents Customer Defined Fields

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Remarks: The above Stack Complies as per CPCH norms with respect to the above tested parameters.

End of Report



GLENS KONOVATION LASS Pvt Ltd. MS/1,1 St Floor , Sel Jothi Complex Munugeson Street , Makevinayagar Nagar , Acumbakkam Channai 600106

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* The Laboratory's responsibility under this report is limited to proven wilful negligence and will in no case be more than the involced amount.

A Satisfactory test report in no way implies that the product tested is approved by NABL.



TEST REPORT

Report No.: EN25090883

Name of the Client

M/s. Chemplast Sormar Limited

Address of the Client

315. Melavanjore, Nagore Post, Karaikal Region, U.T. of Poducherry, Pincode-611002

Sample Name

Stack Emission

· 25-Sep-2025 Sampling From

Sample Description#

Stack Emission

Received Date

Sampling Location

: 26-Sep-2025

Hypo Tower

Commenced On

26-Sep-2025 . 06-Oct-2025

Latitude

N-10*5079.3**

Completed On

Longitude

E-079°50'28.7"

Report Date

. 06-Oct-2025

Sample Submission Type

Collected by Lab Representative

Sample Condition Sampling Plan and Method

Fit for Analysis GL/EN/SOP/111

Test Results

5. 3	io. Parameters	Units	Results Obtained	Test Method	Specification
Dise	cipline : Chemical		-		1
Gre	up 1 Atmospheric Pollution				
1	Chlorine as C12	mg/Nm3	at 0(1.0Q: 0.02)	GL/EN/SOP/153 Issue to & Dt: 02/05/04	15 Max
2	Acid Mist as HCI	ing Nin3	SLO(LOQ 9.52)	GL/EN/SOP/153 Issue to & Dt. 0205.04	35 Max

represents Customer Defined Fields

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Remarks: The above Stack Complies as per CPCB norms with respect to the above tested parameters.

End of Report



SLENS WHILDWATION LABS Put List, 86/1,1 St Floor , Sri John Complex Munugesen Street , Balaninayagar Magar , Animbeksam Chennal 600106

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* The test items will not be retained for more than 15 days from the date of issue of test report except in the case as required by the applicable regulations.

* The Laboratory's responsibility under this report is limited to proven willful negligence and will in no case be more than the invoiced amount.

*A Satisfactory test report in no way implies that the product tested is approved by NABL.

*Laboratory is not responsible for the authenticity of the photocopied test reports.



TEST REPORT

Report No.: EN25090884

Name of the Client

M/s. Chemplast Sammar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002

Sample Name

Stack Emission

Sampling From

: 25-Sep-2025

Sample Description#

Sampling Location

Stack Emission Ethylene Di Chloride - Incinerator

Received Date Commenced On 26-Sep-2025

Completed On

: 26-Sep-2025

Latitude

N-10°50'76.2"

: 06-Oct-2025

Latitude

E-79°50'17.1"

Report Date

: 06-Oct-2025

Saruple Submission Type

Collected by Lab Representative

Sample Condition Sampling Plan and Method Fit for Analysis GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discip	line: Chemical	1	1		
Group	; Pellution and Environmen	1			
1	Ethylene Di Chloride	mg/m3	SUCCEOQ 6.1)	By OC-MS	NA.
	Chlorine as Ct2	ing/Nex3	BLQ(LOQ: 8.07)	GL/EN/SOP/153 Issue no & Dt. 02/05/04	15 Max
1	Acid Mist as HCl	mpNm3	8LQ1.0Q 8.32)	GL/EN/SOP/153 Issue no & Dr. 02/05/84	35 Max
	Ethylane	Enign	BLQ(10Q: 0.1)	By GCMS	NA

represents Customer Defined Fields

Note: BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Remarks: The above Stack Complies as per CPCB norms with respect to the above tested parameters.

End of Report



GLENS INNOVATION LASS Pvi (sd., 46/3,1 8t Floor , Sri Jothi Complex Mürujesan Street , Baltvinayagar Nagar , Arumhakkum Chemiai 600106

Terms and Conditions:

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Page 1 of 1

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*A Satisfactory test report in no way implies that the product tested is approved by NABL.



Environment Monitoring Data - APR 25 to SEP 25

			mbient Air Quality Mo			
	Locations: (P, Ethylene Storage, Desc		Main Gate), CPP-2	
		(Max	simum values recorded is	given below)		
Parameters	APR	MAY	JUN	JUL	AUG	SEP
5O2, ug/m3	8.54	8.45	18.8	18.4	17.8	21.2
NO2, ug/m3	19.21	18.59	27.8	30.7	27,5	31
PM10, ug/m3	71.07	70.65	64.8	58.6	59.4	59.2
PM 2.5, ug/m3	32.24	34.29	30.6	27.7	27.6	29.1
03, ug/m3	17.21	17.11	8DL (LOQ: 20)	BDL (LOQ: 20)	8DL (LOQ: 20)	8DL (LOQ: 20)
Pb, ug/m3	BDL (DL 0.02)	BDL (DL 0.02)	BDL (LOQ: 0.002)	8DL (LOQ: 0.002)	8DL (LOQ: 0.002)	BDL (LOQ: 0.002)
NH3; ug/m3	7.82	7.78	BDL (LOQ: 20)	BDL (LOQ: 20)	BDL (LOQ: 20)	8DL (LOQ: 20)
C6H6, ug/m3	BDL (DL 1.0)	BDL (DL 1.0)	8DL (LOQ: 4)	BDL (LOQ: 4)	8DL (LOQ: 4)	8DL (LOQ: 4)
Benzo / Pyrene, ng/m3	BDL (DL 1.0)	8DL (DL 1.0)	BDL (LOQ: 0.03)	BOL (LOQ: 0.03)	BDL (LOQ: 0.03)	BDL (LOQ: 0.03)
As, ng/m3	BDL (DL 2.0)	BDL (DL 2.0)	BDL (LOQ: 2.0)	BDL (LOQ: 2.0)	BDL (LOQ: 2.0)	8DL (LOQ: 2.0)
Ni, ng/m3	BDL (DL 2.0)	BDL (DL 2.0)	8DL (LOQ: 2.0)	BDL (LOQ: 2.0)	BDL (LOQ: 2.0)	BDL (LOQ: 2.0)
Acid Mist/HCl, ug/m3	BDL (DL 1.0)	BDL (DL 1.0)	8DL (LOQ: 20)	8DL (LOQ: 20)	8DL (LOQ: 20)	BDL (LOQ: 20)
CO, ug/m3	BDL (DL 1.0)	BDL (DL 1.0)	8DL (LOQ: 1000)	8DL (LOQ: 1000)	8DL (LOQ: 1000)	BDL (LOQ: 1000)
C12, ug/m3	8DL (DL 1.0)	8DL (DL 1.0)	8DL (LOQ: 10)	BDL (LOQ: 10)	8DL (LOQ: 10)	BDL (LOQ: 10)
	100000000000000000000000000000000000000		Monitoring - Captive F	The second secon		
			Waste Heat Recovery Boile			
		Section of the Party of the Par	imum values recorded is			
Inlanity m/s	9.2	8.9	R	8.5	9.1	8.4
Velocity, m/s	16.13	14.06	19.5	18.7	27.2	16.4
PM, mg/m3		16.5	49	34.4	37.2	43
SO2, mg/m3	19.43	And a second sec	58.4	47.4	38.2	58.3
Nox, mg/Nm3	58.51	45.16	8.5	43	4.5	8.6
02,%	5.5			13.9	14.1	11.2
02, %	13.5	14.2	11		251	254
Stack temperature, oC	210	169	254	251		16,021
Flow rate, Nm3/tr	15,822	15,341	15,452	16,113	16,698	BDL (DL 0.2)
CO, mg/Nm3	BDL (OL 0.2)	BDL (DL 0.2)	BDL (DL 0.2)	BDL (DL 0.2)	8DL (DL 0.2)	
Mercury, mg/Nm3	8DL (DL 0.01)	BDL (DL 0.01)	BDL (LOQ: 0.03)	8DL (LOQ: 0.03)	BDL (LOQ: 0.03)	BDL (LOQ: 0:03)
			Stack Monitoring - DC	And the same of th		
			i0 (Old), 600 (New), 400, 2 imum values recorded is o			
Velocity, m/s	10.4	10.2	9.7	11.6	19.1	11.5
	8DL (DL 4.0)	80L (DL 4.0)	31.6	71.7	94.6	32
502, mg/Nm3 CO2, %	3.2	3.3	1.4	1.8	3.8	1.5
	16.8	17	17.9	18.4	18	18.5
02,%		122	78	112	93	110
Stack temperature, oC	134	1.342	1,053	1,053	2,162	253
Flow rate, Nm3/hr	848		0.05	0.07	0.1	0.1
PM, g/kw-hr	0.12	0.07	0.05	0.07	0.1	0.19
Nox + HC, g/kw-hr	0.6	0.51		0.74	1.05	1.13
CO, g/kw-hr	0.5	0.6	0.19	0.74	0.2	0.2
Smoke limit, m-1	0.3	0.3	0.2		JU.Z	10.2
			Stack Monitoring - B			
			ocation: 8 TPH (LSHS fired			
		(Max)	imum values recorded is g	iven below)		
/elocity, m/s						
PM, mg/m3]					
iO2, mg/m3]					
Vox. mg/Nm3	1 2					
:02, %		Management	Vanconties	Managettag	Nonceration	No operation
02,%	No operation	No operation	No operation	No operation	No operation	no operation
Stack temperature, oC	1					
Flow rate, Nm3/hr	1					
	1					
O, mg/Nm3	-					
Mercury, mg/Nm3						

* Sample reports attached





Certified as per ISO 9001-2015 & ISO 45001-2018

TEST REPORT



Report No.: EN25090856

ULR No.: TC-858225000006753F

Name of the Client

M/s. Chemplast Sanner Limited

Address of the Client

315, Melassayare, Nagore Post, Karakal Region, U.T. of Padacherry, Pricode-611002

Sample Name

Ambient Air Ounlity

Sampling From

: 23-Sep-2025 10:15 AM

Sample Description #

Ambient Air Quality

Sampling To

: 24-Sep-2025 to 15 AM

Sampling Location

Noir Olic

Received Date

E Company to

Latitude

Note OF K

Commerced On

25-Sep-2025

Longitude

N-10*50%2.2" E-079*50/23.3"

Completed On

Report Date

: 36-Sep-2023 : 66-Oct-2025

Sample Submission Type

Collected by Lab Representative

Sampling Plan and Method

: 06-0x1-2025 : 15 5182 Part V & XIV

Sumple Condition

Fit for Analysis

Duration of Mentering,

1440

Humidity Temperature 51% 33°C

Sky Appearance

Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipt	ne r Chemical	-			120000000000000000000000000000000000000
Greep	r Atmospheric Pollution				
1	Sulplur Dinxide as SO2	ug/m3	18.5	IS 5182 (Part 2/Sec-1)	80 Max
2	Nitrogen dioxide as NO2	cg/m3	25.4	S 5182 (Part 6)	80 Max
3	Particulate Matter (PM10)	Lec'qu	53.4	IS 5182 (Part 23)	100 Max
1	Particulate Matter (PM2.5)	ug/m3	27.7	GL/EN/SOP.062 Issue no & Dr 02/03.04	60 Max
5	Ozone as O3	ug/m3	BEQ(E0Q: 20)	IS 5182 (Part 9)	180 Max
9	Lead as Pb	(n'gų	BLQ(LDQ:0,007)	IS 5182 (Part 22)	1.0 Max
,	Amosonia as NH3	ug'm3	BLQ(1.0Q:29)	GL/EN/SOP/057 Issue no & Dc/02/03/04 (By Indopheral Method)	400 Max
	Henrene (C6H6)	rg'm3	BLQGOQ:40)	GL/INS/SOF/08 Issue no & Dr. 02/05 04	5 Max
	Bento (a) Pyrenz (Particulate Phase)	rg/m3	BLQ(LOQ: 0.03)	GL/EN-INS/SOP/009 house no & Dr. (2.05.04	1 Mas
0	Arsenie as As	rg/ml	BLQ(COQ (2.0)	IS 5182 (Part 22)	6 Max
1	Nickel as Ni	Em'an	SEQ(LOQ : 24)	IS 5182 (Part 22) ICP-MS-method after sampling on EPM 2000 or Equivalent filter paper.	20 Max.

represents Costumer Defined Fields.

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification, NAAQ-National Ambient Air Quality, Instrument Used: Respirable Dust Sampler (RDS), Time Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per NAAQS/PPCC Limit which is provided in the environmental protection Rule 3, (3B) Nov. 2009, against the above tested parameters.

End of Report

Authorized By
E. PRITHIVIRAJAN
LAB MANAGER

GLONS INNOVATION LABS PVLLISL REV. 1,1 St. Floor , Sri Jobh Complex Muniginan Street , Belaviniyagar Nagar , Ananbukkum Chemral 600106

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* A Satisfactory test report in no way implies that the product tested is approved by NABL.

Laboratory is not responsible for the authenticity of the photocopied test reports.



TEST REPORT

Report No.: EN25090856-1

Name of the Client

: M's. Champlest Sanmar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karalkal Region, U.T. of Pudscherry, Pincode-611002

Sample Name

: Ambient Air Quality

Sampling From

: 23-Sep-2025 10 15 AM

Sample Description #

Ambient Air Quality

Sampling To

Sampling Location

: 24-Sep-2025 10:15 AM

: New OHC

Received Date

: 26-Sep-2025

Latinode

N-10°5782.2"

Commerced On

: 26-Sep-2025

Longitude

E-079°50'23.3°

Completed On

06-Oct-2025

Sample Submission Type Sample Condition

: Collected by Lab Representative

Report Date

: 66-Oct-2025

Fit for Analysis Sampling Plan and Method

: IS 5182 Part V & XIV

Humidity Temperature 5119

33%

Duration of Monitoring. Sky Appearance

1440

Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ne i Chemical				1
Groop	t Atmospheric Pollution				
1	Cidorine as C12	la friga	BLQ(LOQ.18)	S 5182 (Part 19)	30 Max
1	Acid Mist as HCI	ug/m3	BLQ(LOQ:29)	GLAN/SOP/153 Issue no & Dt 02/05 04	70 Max
-	Carbon Monoxide as CO	Let'qu	BLQ(LOQ : 1000)	IS 5182 (Part 10)	5000 Max

[#] represents Costumer Defined Fields.

Note - Instrument Used: Respirable Dust Sampler (ROS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler

Remarks: The above sample complies as per PPCC limit against the above tested parameters.

End of Report



GLERS IRROVATION LASS Put Ltd, #5/1,1 St Rooz , Sri Joshi Complex Murugeson Street , Relavinopagar Magar , Anurbalkann Cherrus 600108

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Page 1 of 1

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090857 ULR No.: TC-858225000006754F

Name of the Client

M/s. Chemplast Sammar Limited

Address of the Client

315, Mehrvergore, Nagore Post, Karokal Region, U.T. of Padacherry, Pincode-611002

Sample Name

Archiest Air Quality

Sampling From

: 24-Sep-2025 10:25 AM

Sample Description #

Sampling To

: Ambient Air Quality

: 25-Sep-2025 (0.25 AM

Sampling Location

Near HCL/Hypo Plant

Received Date

: 26-Sep 2025

Lactude

N-10°5078.9"

Commenced On

16-Sep-2025

Longitude

15-079"5028.2"

Campleted On Report Date

: 05-Oct-2025 : 06-Oct-2025

Sample Submission Type Sample Condition

Collected by Lab Representative Fit for Analysis

Sampling Plon and Method

: 85 5182 Part V & XIV

Hamidity

5756

Duration of Monitoring,

1440

Temperature

34°C

Sky Appearance

Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipt	ine : Chemical			1 manufacture and the second	1
Group	2 Atmospheric Pollution				
1	Sulphur Dioxide as SO2	pg/m3	17.8	IS 5182 (Part 2/Sec-1)	93 Max
2	Nitrogen dioxide as NO2	En/gu	29.5	IS 5182 (Part 6)	NO Muss
3	Particulate Matter (PM10)	Lugar	59.2	IS 5182 (Part 23)	100 Mex
4	Particulate Matter (PM2.5)	ug/m3	29.1	GL/EN/SOP/662 Sisse on & Dt. 02/05/04	60 Max
5	Ozone as O3	Entray	BLOKLOQ: 20)	IS 5182 (Part 9)	180 Mex
6	Lead as Pb	(efgq	BLQ(LOQ:8.002)	15 5182 (Part 22)	LO Max
,	Ammeesia as NH3	ug/m3	BLQ(LOQ / 20)	GL/EN/SOP/057 Issue no & De 02/05/04 (By Indephenol Method)	400 Mex
8	Berwene (C6116)	pgtn3	BLQ(LOQ: 4.0)	GL/INS/SOP/08 Issue no & Dr. 02/05/04	5 Max
,	Berus (a) Pyrese (Particulate Phase)	rg/m3	ardirod: est)	GL/EN-INS/SIOP/009 base no & Dr. (02/05/04	I Max
10	Arsenic as As	ng/m3	BLQ(LOQ ; 2 ft)	IS 5182 (Part 22)	6 Max
14	Nickel as Ni	hybrid	BLQ(LOQ:20)	IS 5182 (Part 22) ICP-MS-method after sampling on FPM 2000 or Equivalent fiber paper.	20 Max

represents Costumer Defined Fields.

Note: BLQ: Below the Limit of Quantification, LOQ: Limit of Quantification. NAAQ-National Ambient Air Quality, Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per NAAQS/PPCC limit which is provided in the environmental protection Rule 3, (3B) Nov. 2009. against the above tested parameters.

End of Report



GLINS INDIDIVATION LABS Not Ltd. 45/1, 1 St Floor , Srl Jothi Complex Munugeson Street , Bulavinayagar Magar , Anonbalkian Chenval 600105

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090857-1

Nome of the Client

M/s. Chemplast Summer Limited

Address of the Client

315, Mclavanjore, Nagore Post, Karaikal Region, U.T. of Paducherry, Pircode 611002

Sample Name

: Ambient Air Quality

Sampling From

: 24-Sep-2025 10.25 AM

Sample Description #

Ambient Air Quality

Sampling To

: 25-Sep-2025 10:25 AM

Sampling Location Latitude

: Near HCL/Hypo Plant

Received Date Commerced On : 26-Sep-3025

N-10°5078.9"

Completed On

26-Sep-2025

Sample Submission Type

: E-079°50'28.2" : Collected by Lab Representative

Report Date

: 06-Oct-2025 : 06-Oct-2025

Sample Condition

Eit for Analysis

Sumpling Plan and Method

18 51 82 Part V & XIV

Humidity:

57%

Duration of Monitoring.

: 1440

Temperature

34°C

Sky Appearance

Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	d Test Method	Specification
Discipli	se : Chemical				
Group	: Atmospheric Pollution				
1	Chloring as C12	japha3	BLQ(LOQ 10)	IS 5182 (Part 19)	30 Max
		Annual State of the last of th		Comments and the comments of t	
2	Acid Mist as HCI	Leign	BLQLIQ26	GL/EN/SOP/153 Issue no & Dt 02/05/04	70 Max

represents Costumer Defined Fields.

Note - Instrument Used: Respirable Dest Sampler (RDS), Fine Particulate Sampler (FFS), Malti-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per PPCC limit against the above tested parameters.

End of Report



GLENS INVOYXTION LABS Pvs Ltd., 86/1.1 St Floor , Sri Joshi Complex Munugesan Street , Balavinayagar Magar , Anumbalisam Chennal 600106

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TEST REPORT



Report No.: EN25090029

ULR No.: TC-858225000006349F

Name of the Client

M/s. Chemplast Sanmar Limited

Collected by Lab Representative

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducheny, Pincode-611002

Sample Name

Ambient Air Quality

Sampling From

: 29-Aug-2025 11:20 AM

Sample Description#

Ambient Air Quality

Sampling To

: 30-Aug-2025 11:20 AM

Sampling Location

Near Flaker/STP Area

Received Date

: 02-Sep-2025

Latitude

N-10°50'80.0"

Commenced On

: 02-Sep -2025

Longitude

E-079°50'35.9"

Completed On

Sample Submission Type

: 08-Sep 2025 : 09-Sep -2025

Sample Condition

Fit for Analysis

Report Date

: 1S 5182 Part V & XIV

Sampling Plan and Method Duration of Monitoring,

: 1440

Humidiry Temperature.

51% 33°C

Sky Appearance

: Clear Sky

Test Results

minutes

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ine : Chemical			1	1.7
Group	: Atmospheric Pollution				
1	Sulphur Dioxide as SO2	µg/m3	16.0	IS 5182 (Part 2/Sec-1)	80 Max
2	Nitrogen dioxide as NO2	µg/m3	25.4	IS 5182 (Part 6)	80 Max
3	Particulate Matter (PM10)	ug/m3	52.2	IS 5182 (Part 23)	100 Max
1	Particulate Matter (PM2.5)	ug/m3	24.6	GL/EN/SOP/062 Issue no & Dt: 02/05.04	60 Max
5	Ozone as O3	ug/m3	BLQ(LOQ: 20)	IS 5182 (Part 9)	180 Max
5	Lead as Pb	ug/m3	BLQ(LOQ:0.002)	IS 5182 (Part 22)	1.0 Max
7	Ammonia as NH3	ug/m3	BLQ(LOQ: 20)	GL/EN/SOP/057 Issue no & Dt 02/05/04 (By Indophenol Method)	400 Max
3	Benzene (C6H6)	ug/m3	BLQ(LOQ: 4.0)	GL/INS/SOP/08 Issue no & Dt. 02/05/04	5 Max
,	Benzo (a) Pyrene (Particulate Phase)	ng/m3	BLQ(LOQ: 0.03)	GL/EN-INS/SOP/009 Issue no & Dt: 02/05.04	l Max
0	Arsenic as As	ng/m3	BLQ(LOQ:20)	IS 5182 (Part 22)	6 Max
1	Nickel as Ni	ng/m3	BLQ(LOQ:20)	IS 5182 (Part 22) ICP-MS- method after sampling on EPM 2000 or Equivalent filter paper.	20 Max

represents Costumer Defined Fields.

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification. NAAQ-National Ambient Air Quality, Instrument Used: Respirable Dust Sampler (RDS). Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler

Remarks: The above sample complies as per NAAQS/PPCC Limit which is provided in the environmental protection Rule 3, (3B) Nov. 2009, against the above tested parameters.

End of Report

R Abubacker Sithick Chemist

GLENS INNOVATION LABS Pvt Ltd, #6/1,1 St Floor , Sri Jothi Complex Murugesan Street , Balavirayagar Nagar , Arumbakkam Chevnal 600106

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090029-1

Name of the Client

M/s. Chemplast Sannur Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002.

Sample Name

Ambient Air Quality

Sampling From

: 29-Aug-2025 11:20 AM

Sample Description #

: Ambient Air Quality

Sampling Location

Near Flaker/STP Area

Sampling To

: 30-Aug-2025 11:20 AM

N-10°50'80.0"

Received Date Commenced On : 02-Sep-2025

Latitude

: 02-Sep -2025

Longitude

: E-079"50'35.9"

Completed On

Sample Submission Type

Collected by Lab Representative

Report Date

: 08-Sep 2025 : 09-Sep -2025

Sample Condition

Fit for Analysis

Sampling Plan and Method

: IS 5182 Part V & XIV

Humidity

: 51%

Duration of Monitoring,

: 1440

Temperature

3390

Sky Appearance

: Clear Sky

Test Results

minutes

Parameters	Units	Results Obtained	Test Method	Specification
ne : Chemical				
: Atmospheric Pollution				W
Chlorine as C12	µg/m3	BLQ(LOQ:10)	IS 5182 (Part 19)	30 Max
Acid Mist as HCl	ug/m3	BLQ(LOQ:20)	GL/EN/SOP/153 Issue no & Dt. 02/05.04	70 Max
Carbon Monoxide as CO	ug/m3	BLQ(LOQ: 1000)	IS 5182 (Part 10)	5000 Max
	: Chemical : Atmospheric Pollution Chlorine as C12 Acid Mist as HC1	te : Chemical : Atmospheric Pollution Chlorine as C12 ug/m3 Acid Mist as HC1 ug/m3	re : Chemicat : Atmospheric Pollution Chlorine as Cl2	te : Chemical : Atmospheric Pollution Chlorine as Cl2

represents Costumer Defined Fields.

Note: - Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per PPCC limit against the above tested parameters.

End of Report

R. Abubacker Sithick Chemist

GLENS INNOVATION LASS Put Ltd, #6/1,1 St Floor , Sri Jothi Complex Murugesan Street , Balavinayagar Nagar , Arumbakkam Chennai 6001,06

Terms and Conditions:

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090858 ULR No.: TC-858225000006755F

Name of the Client

: M/s. Chemplast Sammer Limited

Address of the Client

: 315, Melavarjore, Nagore Post, Kurukal Region, U.T. of Pudacherry, Pricode-611002

Sample Name

Ambient Air Quality

Sampling From

1 23-Sep-2025 10:35 AM

Sample Description #

: Ambient Air Quality

Sampling To

: 24-Sep-2025 10:35 AM

Sampling Location

Near Ethylene Storage

Received Dine Construenced On : 26-Sep-2023

Larinode

N-10°50'95.2"

Completed On

: 26-Sep-2025 : 06-Oct-2023

Longitude Sample Submission Type E-079°50'40.7" Collected by Lab Representative

Report Dute

: 66-Oct-2025

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: IS 5182 Part V & XIV

Humidity

57%

Duration of Monitoring,

1440

Temperature

34%

Sky Appearance

: Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ne : Chemical	1			
Group	Atmospheric Pollution	200		NAME OF TAXABLE PARTY.	
1	Sulphur Dioxide as SO2	Errigit	17.8	JS 5182 (Part 2/Sec-1)	60 Max
2	Nitrogen dioxide as NO2	ug/m3	25.8	IS 5182 (Purt 6)	80 Mec
3	Particulate Matter (PM10)	Lefter	57.3	IS 5182 (Part 23)	100 Max
4	Particulate Matter (PM2.5)	Legist3	25.0	GL/EN/SOP/062 Issue no & Dr. (Q/03.04	60 Max
5	Ovone as O3	En/gq	BLQ(LOQ:20)	(S 5192 (Part 9)	190 Max
6	Lord as Pb	Lui ga	BLQ(LOQ: 0.002)	IS 5182 (Part 22)	1.0 Mex
7	Ammonia as NH3	cg/in1	BLQ(LOQ : 20)	GL/EN/SOP/057 Issue no & Dt (02/05/04) By Indephenel Method)	400 Max
ŝ	Benzene (C6H6)	ug/ml	BLQ(LOQ:40)	GL/INS/SOP/08 Issue no & Dr. 02/05/04	5 Max
9	Benzo (a) Pyrene (Particulate Phase)	ng/m3	BLQ(LOQ:0.03)	GL/EN-INS/SOP/009 lastic to & Dr. 02/05/04	1 Max
10	Arsenie as As	ng/m3	BLQ(LOQ 2.0)	S 5182 (Part 22)	6 Max
11	Nickel as Ni	rigin.)	BLQ(LOQ: 20)	IS 5182 (Part 22) ICP-MS- method after sampling on EPM 2000 or Equivalent filter paper.	20 Mss.

represents Costumer Defined Fields.

Note: BLQ: Below the Limit of Quaruffection, LOQ: Limit of Quantification. NAAQ: National Ambient Air Quality, Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per NAAQS/PPCC Limit which is provided in the environmental protection Rule 3, (3B) Nov. 2009, against the above tested parameters.

End of Report

Author E PRITHIVIRAJAN LAB MANAGER

GLENS PRICOVATION LABS Put Ltd, Mi/1,1 St Floor , Sri Joshi Complex Munigissan Street , Bullevinayagan Ragar , Anambakkam Chennal 600106

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090858-1

Name of the Client

M/s. Chemplast Sanmar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Peccodo 611002

Sample Name

Ambient Air Quality

Sampling From

23-Sep-2025 10:35 AM

Sumple Description #

Ambient Air Quality

Sampling To

24-Sep-2025 10:35 AM

Sampling Location

Nor Ethylene Storage

Received Date

26-Sep-2025

Latitude

N-10°50'95.2°

Commenced On

: 26-Sep-2025

Longitude Sample Submission Type E-079"50"40.7"

Completed On Beport Date 06-Oct-2025

Sample Condition

Collected by Lab Representative Fit for Analysis

Sampling Plan and Method

15.5182 Part V & XIV

Sanger Commis

57%

Duration of Monitoring.

1440

Humidity Temperature

: 30°C

Sky Appearance

: Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ise : Chemical				
Group	: Atmospheric Pollution				
1	Chdorine as CI2	Lugini	BLQ100.10)	IS 5182 (Part 19)	30 Max
	Acid Mist as HCI	Lughu3	BLOLLOQ.NI	GL/EN/SOP/153 Issue no & Dt 02/03/04	70 Max
2	PACIA MINERA FIRM	Print tribe			

represents Costumer Defined Fields.

Note - Instrument Used : Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Lou Yoluna Air Sampler,

Remarks: The above sample complies as per PPCC limit against the above tested parameters.

End of Report



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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090031

ULR No.: TC-858225000006354F

Name of the Client

: M/s. Chemplast Sannur Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Pudocherry, Pincode 611002

Sample Name

Ambient Air Quality

Sampling From

: 29-Aug-2025 11:45 AM

Sample Description #

Ambient Air Quality

C T.

. writing about 11.45 ton

Sampling Location

Ambient Air Quality

Sampling To

: 30-Aug-2025 11:45 AM

Sampling LAC

Near Desalination Plant

Received Date

: 02-Sep-2025

Latitude

N-10°50'95.3°

Commenced On

02-Sep -2025

Longitude

E-079°50'35.2"

Completed On

: 08-Sep 2025

Sample Submission Type

Collected by Lab Representative

Report Date

: 09-Sep -2025

Sample Condition

Fit for Analysis

Sampling Plan and Method

: IS 5182 Part V & XIV

Duration of Monitoring,

: 1440

Humidity Temperature 57% 34°C

Sky Appearance

: Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ne : Chemical				
Group	: Atmospheric Pollution				
1	Sulphur Dioxide as SO2	ug/m3	14.5	IS 5182 (Part 2/Sec-1)	80 Max
2	Nitrogen dioxide as NO2	ug/m3	23.9	IS 5182 (Part 6)	80 Max
3	Particulate Matter (PM10)	ug/m3	59.4	IS 5182 (Part 23)	100 Max
4	Particulate Matter (PM2.5)	ug/m3	27.6	GL/EN/SOP/062 Issue no & Dr. 02/05/04	60 Max
5	Ozone as O3	ug/m3	BLQ(LOQ:20)	IS 5182 (Part 9)	180 Max
6	Lead as Pb	ug/m3	BLQ(LOQ: 0.002)	IS 5182 (Part 22)	1.0 Max
7	Ammonia as NH3	ug/m3	BLQ(LOQ:20)	GL/EN/SOP/057 Issue no & Dt 02/05/04(By Indophenol Method)	400 Max
8	Benzene (C6H6)	ug/m3	BLQ(LOQ: 4.0)	GL/INS/SOP/08 Issue no & Dt. 02/05.04	5 Max
9	Benzo (a) Pyrene (Particulate Phase)	ng/m3	BLQ(LOQ:0.03)	GL/EN-INS/SOP/009 Issue no & Dt: 02/05/04	1 Max
10	Arsenic as As	ng/m3	BLQ(LOQ: 2.0)	IS 5182 (Part 22)	6 Max
11	Nickel as Ni	ng/m3	BLQ(LOQ:20)	IS 5182 (Part 22) ICP-MS- method after sampling on EPM 2000 or Equivalent filter paper.	20 Max

represents Costumer Defined Fields.

Note: - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification. NAAQ-National Ambient Air Quality, Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per NAAQS/PPCC Limit which is provided in the environmental protection Rule 3, (3B) Nov. 2009, against the above tested parameters.

End of Report

Authorized By
R. Abubacker Sithick
Chemist

GLENS INNOVATION LABS Pvt Ltd, #6/1,1 St Floor , Sri Jothi Complex Murugesan Street , Balavinayagar Nagar , Anunbakkam Chennul 600106

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090031-J

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002.

Sample Name

: Ambient Air Quality

Sampling From

: 29-Aug-2025 11:45 AM

Sample Description #

: Ambient Air Quality

Sampling To

: 30-Aug-2025 11:45 AM

Sampling Location

: Near Desalination Plant

Received Date

: 02-Sep-2025

Latitude

N-10°50'95.3"

Commenced On

: 02-Sep -2025

Longitude

E-079°50°35.2"

Completed On

: 08-Sep 2025

Sample Submission Type

: Collected by Lab Representative

Report Date

: 09-Sep -2025

Sample Condition

Fit for Analysis

Sampling Plan and Method Duration of Monitoring, : IS 5182 Part V & XIV

Humidity Temperature 57% 34°C

Sky Appearance

: Clear Sky

1440

77. . . .

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ne : Chemical				
Group	: Atmospheric Pollution				
1	Chlorine as Ct2	ag/m3	BLQ(LOQ:10)	IS 5182 (Part 19)	30 Max
2	Acid Mist as HCI	ug/m3		GL/EN/SOP/153 Issue no & Dt. 02/05/04	
	Carbon Monoxide as CO	ug/m3		IS 5182 (Part 10)	5000 Max

represents Costumer Defined Fields.

Note: Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler

Remarks: The above sample complies as per PPCC limit against the above tested parameters.

End of Report

Authorized By

R. Abubacker Sithick
Chemist

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090855

ULR No.: TC-858225000006752F

Name of the Client

M/s. Chemplast Sunmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karukal Region, U.T. of Padacherry, Pincode-611002

Sample Name

Archient Air Quarity

Sampling From

23-Sep-2025 10:00 AM

Sample Description #

Ambient Air Quality

er and annual transcription

Sampling Location

Assessed All Quarty

Sampling To

24-Sep-2023 10 00 AM

Latitude

ICO Plant (Neur Mein Gese) N-10*5078.0" Received Date
Commenced On

26-Sep-2025 26-Sep-2025

Lengitude

N-10/3078.0"

Completed On

(6-Od-2025

Sample Submission Type

Collected by Lab Representative

Report Date

: 06-Oct-2025

Sample Condition

Fit for Analysis

Sampling Plan and Method

: 18 5182 Part V & XIV

Humidity

59%

Duration of Monitoring, minutes

1440

Temperature : 34°C

Sky Appearance

: Clear Sky

787	Resu	34.
CHEST	1000000	HTG

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discip	line : Chemical				1
Group	1 Atmospheric Pollution				
1	Sulphur Dioxide as SO2	Ent gu	21.2	IS 5182 (Part 2-Sec-1)	80 Max
2	Nitrogen diaxide as NO2	pg'm3	31.0	15 5182 (Part 6)	80 Mex
3	Perticulate Matter (PM10)	ughal	50.7	IS \$182 (Part 23)	100 Max
1	Particulate Matter (PM2.5)	ug/m3	24.9	GL/EN/SOP/662 breat to & Dc 02/65/64	60 Max
5	Osone as O3	ug/m3	BLQ(14)Q : 20)	(S 5182 (Part 9)	180 Max
	Lead as Pb	pg/m3	BLQ(LOQ:0.002)	(S \$182 (Part 22)	LO Max
	Americala as NH3	(relay	8LQ(LOQ 20)	N.L.E.N. St. JP3057 Insure no. & Dit 02.015 D4 (By Indephenal Methods	400 Max
	Benzene (C6H6)	pig/mJ	SUQLOQ (48)	GLANS/SOP/08 Issue to & Dt. 02/05/04	5 Max
	Benzo (a) Pyrene (Perticulate Phase)	ng/m3	BLQ(LOQ (0.03)	GL/EN-INS-500/009 Insur no & Dr. 02:03:04	1 Max
0	Arsenic as As	ng/es3	BLQLOQ:20)	IS 5182 (Part 22)	6 Max
1	Nickel as Ni	En'go	8LQL0Q:269	IS 5182 (Part 22) KP-MS-method after sampling on EPM 2000 at Espiralent Sturpoper	20 Max

represents Costumer Defined Fields.

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification, NAAQ-National Ambient Air Quality, Instrument Used, Respirable Dust Sampler (RDS), Five Particulate Sampler (FFS), Multi-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per NAAQS/PPCC Limit which is provided in the environmental protection Rule 3, (3B) Nov. 2009, against the above tested parameters.

End of Report

Authorized By E. PRITHIVIRAJAN LAB MANAGER

GLEYS SENDIVITION LABS PVs Ltd., RE/1.2 St Floor , Sri Inth/ Complex Mongeron Street , Balavinapagar Nagar , Arterbakkana Chonnai 600166

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No. 1 EN25090855-1

Name of the Client

: Mix Chemplast Samur Limited

Address of the Client

315, Melavanjore, Nagove Post, Karaikal Ragion, U.T. of Padacherry, Pincode-611002

Sample Name

Ambient Air Quality

Sampling From

13-Sep-2025 10:00 AM

Sample Description #

Ambient Air Quality

Sampling To

24-Sep-2023 10:00 AM

Sampling Location

ICD Plant (Near Main Gote)

Received Date

26-Sep-2025

Latinade

: N-10*5078.0"

Commenced On

: 26-Sep-2025

Longitude

E-079°50'07.6"

Completed On

16-Oct-2025

Sample Submission Type

Collected by Lab Representative

Report Date

(6-Oct-2025

Sample Condition

: Fit for Analysis

Sumpling Plan and Method

IS 51 82 Part V & XIV

Hunidity

59%

Daration of Mentoring, minutes

: 1440

Temperature

34°C

minutes Sky Appearance

Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ine a Chemical			-	
Greep	: Atmospheric Pollution				
1	Chlorine as Cl2	jug/m3	BLQ(L0Q.(1))	8S 5182 (Part 19)	30 Max
5.	Acid Mist as HCI	ig/m3	BLQ(LQQ.20)	GL/EN/SOP/153 Issue no & Dt. 02/03/04	70 Max

represents Costumer Defined Fields.

Note - Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Muki-gas Analyzer, Low Volume Air Samplet.

Remarks: The above sample complies as per PPCC limit against the above tested parameters.

End of Report



GLENS INNOVATION LABS PVI Ltd. 86/1,1 St Floor , Sn Jothi Complex Munugesan Street , Balaninayagar Nagar , Arunbukkum Chennal 600106

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TEST REPORT



Report No.: EN25090030

ULR No.: TC-858225000006351F

Name of the Client

M/s. Chemplast Sanmar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002

Sample Name

Ambient Air Quality

Sampling From

: 29-Aug-2025 11:35 AM

Sample Description #

Ambient Air Quality

Sampling To

Sampling Location

ICD Plant (Near CPP - 2)

: 30-Aug-2025 11:35 AM

Received Date

: 02-Sep-2025

Latitude

N-10*5077 6*

Commenced On

: 02-Sep -2025

Longitude

E-079°50'18.7°

Completed On

: 08-Sep 2025

Sample Submission Type

Collected by Lab Representative

Report Date

: 09-Sep -2025

Sample Condition

Fit for Analysis

Sampling Plan and Method

: IS 5182 Part V & XIV

Humidity

57%

Duration of Monitoring, minutes

: 1440

Temperature

34%

Sky Appearance

· Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipt	lise : Chemical				1.
Group	: Atmospheric Pollution				
1	Sulphur Dioxide as SO2	µg/m3	11.4	IS 5182 (Part 2/Sec-1)	80 Max
2	Nitrogen dioxide as NO2	ug/m3	22.3	IS 5182 (Part 6)	80 Max
3	Particulate Matter (PM10)	µg/m3	57.2	IS 5182 (Part 23)	100 Max
1	Particulate Matter (PM2.5)	ug/m3	26.5	GL/EN/SOP/062 Issue no & Dt: 02/05/04	60 Max
5	Ozone as O3	ug/m3	BLQ(LOQ: N)	IS 5182 (Part 9)	180 Max
	Lead as Pb	ug/m3	BLQ(LOQ:0.002)	IS 5182 (Part 22)	1.0 Max
7	Ammonia as NH3	µg/m3	BLQ(LOQ : 20)	GL/EN/SOP/057 Issue to & Dr. 02/05.04 (By Indophenol Method)	400 Max
	Benzene (C6H6)	µg/m3	BLQ(LOQ: 4.0)	GL/INS/SOP/08 Issue to & Dt 02/05/04	5 Max
	Benzo (a) Pyrene (Particulate Phase)	ng/m3	BLQ(LOQ:0.03)	GL/EN-INS/SOP/009 Issue no & Dr 02/05/04	1 Max
0	Arsenic as As	ng/m3	BLQ(LOQ: 2.0)	IS 5182 (Part 22)	6 Max
1	Nickel as Ni	ng/m3	BLQ(LOQ:20)	IS 5182 (Part 22) ICP-MS- method after sampling on EPM 2000 or Equivalent filter paper.	20 Max

Note: BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification. NAAQ-National Ambient Air Quality, Instrument Used: Respirable Dust Sampler (RDS). Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler

Remarks: The above sample complies as per NAAQS/PPCC limit which is provided in the environmental protection Rule 3, (3B) Nov. 2009, against the above tested parameters.

End of Report

Authorized By R. Abubacker Sithick Chemist

GLERS INNOVATION LABS Pv1 (Ltd., #6/1,1 St Floor , Sri Jothi Complex Murugesan Street , Balavinayagar Nagar , Arumbakkam Chevrusi 600106

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090030-1

Name of the Client

: M/s. Chemplast Sanmur Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karalkal Region, U.T. of Puducherry, Pincodo-611002.

Sample Name

: Ambient Air Quality

Sampling From

: 29-Aug-2025 11:35 AM

Sample Description #

: Ambient Air Quality

Sampling To

: 30-Aug-2025 11:35 AM

Sampling Location

: ICD Plant (Near CPP - 2)

Received Date

: 02-Sep-2025

Latitude

: N-10°50'77.6"

Commenced On

: 02-Sep -2025

Longitude

E-079°50′18.7°

Completed On

: 08-Sep 2025

Sample Submission Type

Collected by Lab Representative

Report Date

: 09-Sep -2025

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: IS 5182 Part V & XIV

Humidity

57%

Duration of Monitoring, monodes

: 1440

Temperature

: 34°C

Sky Appearance

: Clear Sky

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discipli	ne : Chemical				Manager Co.
Group	: Atmospheric Pollution				
1	Chlorine as C12	ug/m3	BLQ(LOQ:10)	IS 5182 (Part 19)	30 Max
2	Acid Mist as HCI	ug/m3	BLQ(LOQ:20)	GL/EN/SOP/153 lisue no & Dt. 02/05/04	The second secon
+	Carbon Monoxide as CO	Enrique		IS 5182 (Part 10)	5000 Max

represents Costumer Defined Fields.

Note: - Instrument Used: Respirable Dust Sampler (RDS), Fine Particulate Sampler (FPS), Multi-gas Analyzer, Low Volume Air Sampler.

Remarks: The above sample complies as per PPCC limit against the above tested parameters.

End of Report

R. Abubacker Sithick Chemist

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090877 ULR No.: TC-858225000006756F

Name of the Client

M/s. Chemplast Sanmar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002

Sample Name

Stack Emission

: 24-Sep-2025 Sampling From

- 26-Sep-2025

Sample Description#

Boiler Stack

Received Date

Sampling Location

CPP-1 (Waste Heat Recovery Boiler) Commenced On

: 26-Sep-2025

Latitude

N-10*50'92.1" E-079°50'28.5"

Completed On Report Date

. 06-Oct-2025 : 06-Oct-2025

Longitude Sample Submission Type

Collected by Lab Representative

Sample Condition

Fit for Analysis

Sampling Plan and Method

GL/EN/SOP/111

Test Results

9.1	io. Parameters	Units	Results Obtained	Test Method	Specification
Dis	cipline : Chemical		1		
Gra	up : Atmospheric Pollution			A CARDON AND A CAR	
1	Gareous Discharge	No.3.Hr	16021	IS 11255 (Purt-3)	NA
2	Stack Temperature	K	527	(S 1)255 (Part 3)	NA
1	Velocity	misee	8.3	EPA method 1-3 (Tale 40 - Protection of Environment)	NA NA
1	Oxygen as O2	79	11.2	GL/EN/SOP/149 Issue no & Dr. 02/05/04	NA
	Carbon Monoxide as CO	ng/Nn3	510	GL/EN/SOP/149 Issue no & Dr 02/05/04	NA
	Carbon Diracide as CO2	14	4.6	GLÆN/SOP/149 lause no & Dt 02/05/04	NA
1	Forticulate Matter	mg/Nin3	(5.)	GL/EN/SOP(1)3 lisue no & Dr. (2/05/04	30 Max
	Oxides of Nitrogen as NOs*	ppm	58.3	GLA'N/SOP/149 Issue to & Dr. 02/05/04	100 Max
	Sulphur Dioxide as SO2	mg/Nm3	43.0	EPA 6 (Title 49 - Protection of Environment)	100 Max
0	Mercury as Hg	mg/N:n3	Hr 0/1 00 : 0 83)	EPA method-29(Tele 40 - Protection of Environment)	0.03 Max

[#] represents Customer Defined Fields

Note: BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Remarks: The above Stack Complies as per CPCB norms with respect to the above tested parameters.

*** End of Report***



GLENS INTROVATION LASS PytList, RE/L, ESt Floor , Sri Joshi Complex Munigram Street , Baltininayagar Ragar , Animbakkan Chennal 600506

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^{*}NOs- at 15% excess Oxygen



Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090878

ULR No.: TC-858225000006757F

Name of the Client

M/s. Chemplast Sanmar Limited

Address of the Client

315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducheny, Pincode-611002

Sample Name

Stack Emission

Sampling From

: 24-Sep-2025

Sample Description#

Boiler Stack

Received Date

: 26-Sep-2025

Sampling Location

Sample Condition

CPP-2 (Waste Heat Recovery Boiler)

Commenced On

: 26-Sep-2025

Latitude

N-10°50'77"

Completed On

: 06-Oct-2025

Longitude

15-079*50*17.6**

Report Date

- 06-Oct-2025

Sample Submission Type

Collected by Lab Representative

Sampling Plan and Method

Fit for Analysis GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Specification
Discip	line: Chemical				
Group	: Atmospheric Pollution				
t	Gascous Discharge	NmMr	7310	IS 11255 (Part 3)	NA
2	Stack Temperature	k	487	IS 11255 (Part3)	NA
3	Velocity	m/sec	8.4	EPA method 1-3 (Title 40 – Protection of Environment)	NA
	Oxyger as 02	16	11.1	GL/EN/SOP/149 Issue no & Dt. 02/05/04	NA
	Carbon Monoxide as CO	mg/Nm3	630	GL/EN/SOP/149 Issue no & Dr. 02/05/01	NA
	Carbon Dioxide as CO2	%	8.3	GL/EN/SOP/149 Issue no & Dt. 02/05/04	NA NA
1	Particulate Matter	ing/Nm3	16.4	GL/ EN/SOP/113 Issue no & Dr: 02/05/04	30 Max
	Oxides of Nitrogen as NOx *	ppen	18.0	GLA:N/SOP/149 Issue no & Dr: 02/05/04	100 Max
)	Sulphur Dioxide as SO2	ing/Nm3	143	EPA 6 (Title 40 - Protection of Environment)	100 Max
0	Mercury as Hg	mg/Non3	BLQ(LOQ: 0.03)	EPA method-29 (Title 40 - Protection of Environment)	0.03 Max

[#] represents Customer Defined Fields

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Remarks: The above Stack Complies as per CPCB norms with respect to the above tested parameters.

End of Report

R. Abubacker Sithick Chemist

GLENS DENOVATION LASS PALLED, 85/1,1 St Hoor, Sri Jothi Complex Munagesan Street, Balavinayagan Nagar, Anambalkam Chennai 600105 Terms and Conditions:

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^{*}NOs- at 15% excess Oxygen



Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No. : EN25090058

ULR No.: TC-858225000006398F

Name of the Client

: M/s. Chemplast Sunmor Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 29-Aug-2025

considere a series

: DG Stock

Received Date

2771105-202

Sample Description Sampling Location

: DG Set (82.5 KVA)

Commenced On

: 02-Sep-2025 : 02-Sep-2025

Latitude

: N-10°50'91.6"

Completed On

: 08-Sep-2025

Longitude

: E-079°30′27.7"

Report Date

: 08-Sep-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111



Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipi	ine : Chemical				
Group	: Atmospheric Pollution				
1	Velocity	m/sec	10.2	EPA method 1-3 (Title 4) - Protection of Emireprent)	NA.
2	Stack Temperature	K	354	IS 11255 (Part 3)	NA
1	Flora Rate	Nniltv	242	IS 11255 (Part 3)	NA
	Particulate Matter	g/kw-te	0.09	GL/EN/SOP(11) Issue no & Dt 62/05/04	£62
5	Oxides of Nitrogen (NOs as NO2)	pkn-hr	0.97	GLÆN/SOP/149 lisse no & Dr. 02/05/04	≤40
6	Carbon Monoxide as CO	g/cw-hr	1.05	GL/EN/SOP/149 Issue no & Dt. 02/05/04	533
	Oxygen as O2	14	18.0	GL/EN/SOP/149 Issue no & Dt. 02/05/04	NA
	Curben Dioxide as CO2	N	2.2	GL/EN/SOP/149 Issue no & Dt 02/05/04	NA
	Sulphur Dioxide as SO2	mg/Nm3		EPA 6 (Title 40 – Protection of Environment)	NA .

Note: BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Note *NOX+HC - 54.0g/cm-hr

End of Report

R. Abubacker Sithick Chemist

GLENS TENDY ATION LABS PVLLSI, MI/1,1 St Floor , Srl Josh Complex Munigrisian Street , Belinkinayagan Nagor , Arumbakkam Chevral 600106

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Laboratory is not responsible for the authenticity of the photocopied test reports.



TEST REPORT

Report No.: EN25090058-1

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Paducherry, Pincode-611002

Sample Name

: Stack Emission

Sampling Date : 29-Aug-2025

Sample Description

: DG Stack

Received Date

Sampling Location

: 02-Sep-2025

: DG Set (82.5 KVA)

Commenced On

: 02-Sep-2025

Latitude

: N-10°50'91.6"

Completed On

: 08-Sep-2025

Longitude |

: E-079'50'27.7"

Report Date

: 09-Sep-2025

Sample Submission Type

: Collected by Lab Representative

Sumple Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discip	line: Chemical				
Group	: Atmospheric Pollution				
1	Hydrocarbon (HC)	pkwte	BLQLLOQ: Let	IS: 5182 (Part1-17)	540
2	Smoke Light (Light Absorption Co-Efficient)	m-1	0.2	By Instrument Method	:07

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Note: *NOX+HC - 5 4.0gAw-br

End of Report

R. Abubacker Sithick

GLENS INNOVATION LASS Pvt Ltd, #6/1,1 St Plane , Sri Sothi Complex Murupesan Street , Balavirayagan Haper , Anambahkani Chennal 800106

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090880

ULR No.: TC-858225000006748F

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Pudacherry, Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 25-Sep-2025

Sample Description

: DG Stack

Received Date

: 26-Sep-2025

Sampling Location

: DG Set (180 KVA)

Commenced On

: 26-Sep-2025

Latitude

: N-10°50'91.6"

Completed On

: 06-Oct-2025

Longitude

: E-079°50'27.7"

Report Date

: 06-Oct-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition Sampling Plan and Method : Fit for Analysis : GL/EN/SOP/111

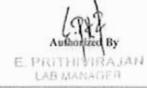
Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipli	ine: Chemical				
Group	: Atmospheric Pollution				
1	Velocity	m/sec	9.4	EPA method 1-3 (Title 40 - Protection of Environment)	NA
2	Stock Temperature	K	353	IS 11255 (Part 3)	NA
3	Flow Rate	Nester	224	IS 11235 (Part 3)	NA
4	Particulate Matter	pkwhr	0.1	GL/ EN/SOP/111 Issue to & Dt 02/05/04	⊴0.2
5	Oxides of Nitrogen (NOs us NO2)	pkw-br	0.19	GLEN/SOP/149 Issue no & Dr. 02/05/04	410
5	Carbon Monoside as CO	pku-le	0.78	GL/EN/SOP/149 Issue no & Dr. 02/05/04	£15
7	Oxygen us O2	N	18.2	GL/EN/SOP/149 Issue no & Dr. 02/05/04	NA .
š.	Carbon Dioxide as CO2	26	1.5	GL/EN/SOP/149 Issue no & Dt. 02/05/04	NA.
2	Sulphur Dioxide as 802	mg/Nm3		EPA 6 (Title 40 – Protection of Environment)	NA

Note: HLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Note: *NOX+HC + ≤ 4.0g/kw-hr

End of Report



GLINS MINONATION LABS Put Ltd, #6/1,1 St Floor , Sri Jothi Complex Munigeae Street , Ballevinayagar Ringir . Ananbakkan Chennai 600105

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090880-1

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Mclavanjore, Nagore Post, Karaikal Region, U.T. of Pudscherry, Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 25-Sep-2025

Sample Description

Owner Patroone

: DG Stack

Received Date

: 26-Sep-2025

Sampling Location

: DG Sct (189 KVA)

Commerced On

: 26-Sep-2025

Latitude

: N-10°50°91.6"

Completed On

: 06-Oct-2025

Longitude

: E-079°50'27.7"

Report Date

: 06-Oct-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Disciplia	ne : Chemical				
Group	: Atmospheric Pollution				-
	Hydrocarbon (HC)	akw-hr	REQUEOQ: 1.0)	IS: 5182 (Part1-17)	c40
1	Smoke Light (Light Absorption Co-Efficient)	m-1	0.2	By Instrument Method	< 0.7

Note: BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Note: *NOX+HC - ≤ 4.0g/kw-hr

End of Report



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Certified as per ISO 9001-2015 & ISO 45001-2018

TEST REPORT



Report No.: EN25090881

ULR No.: TC-858225000006749V

Name of the Client

: M/s. Chemplast Sannar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Kansikal Region, U.T. of Paducheny, Pincode-611002

Sample Name

: Stack Emission

Sampling Date

25-Sep-2025

Sample Description

: DG Stack

Received Date

: 26-Sep-2025

Sampling Location

DG Set (400 KVA)

Commenced On

: 26-Sep-2025

Latitude

: N-10°50'95.6"

Completed On

: 06-Oct-2025

Lengitude

: E-079°50'40.4"

Report Date

: 06-Oct-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipl	ioe: Chemical	-	1		
Greep	: Atmospheric Pollution				
1	Velocity	Wiec	115	EPA method 1-3 (Title 40 - Protection of Environment)	per
2	Stack Temperature	K	383	85 11255 (Part 3)	NA
3	Flow Rate	Nes3Av	253	(\$ 1 (255 (Part 3)	NA
4	Particulate Mother	plante	0.07	GL/EN/SOP/113 Issue to & Dt. 024/5/04	502
5	Ocides of Nitrogen (NOs as NO2)	gAwte	0.04	GL/EN/SOP/149 Issue no & Dt 02/05/04	≤4.0
5	Carbon Monoxide as CO	g/km-br	1.13	GL/EN/SOP/149 Issue no & Dt 02/05/04	≤3.5
7	Oxygen us O2	34	18.5	GL/EN/SOP/149 Issue no & Dt: 02/05/04	NA
	Carbon Dioxide as CO2	34	1.4	GL/EN/SOP/149 Issue no & Dt: 02/05/04	NA
	Sulphur Dioxide as SO2	mg/Km3		EPA 6 (Title 40 - Protection of Environment)	NA .

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Note: *NOX+HC - ≤ 4.0gAw-hr

End of Report



GLINS INNOVATION LABS Pvt Ltd, 46/1,5 St Ploor , Sri Jothi Complex Muzugosan Street , Bulivinnysgar Magar , Ananbakkum Overvasi 600106

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TEST REPORT

Report No.: EN25090881-1

Name of the Client

: M/s. Chemplast Sammar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Padacherry, Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 25-Sep-2025

Sample Description

: DG Stack

Received Date

: 26-Sep-2025

Sampling Location Latitode

: DG Set (400 KVA)

Commenced On

: 26-Sep-2025

: N-10°50°95.6"

Completed On

: 06-Oct-2025

Longitude

: E-079°50'40,4"

Report Date

: 06-Oct-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. N	o. Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Disc	ipline : Chemical	1			
Gree	p : Atmospheric Pollution		7		
1	hydrocarbon (HC)	pAw-tu	BLOCLOQ: L/h	IS: 5182 (Part1-17)	54.0
2	Smoke Light (Light Absorption Co-Efficient)	m-1	0.2	By Instrument Method	507

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification.

Note: *NOX+HC - ≤ 4.0g/kw-hr

End of Report



GLENS IRRIONATION LABS PVI Ltd. 86/1,1 St Floor , Sri Sothi Complex Muruposan Street , Balaxinayagar Nogar , Arumbakkam Chennar 600106

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25090057

ULR No. 1 TC-858225000006399F

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjone, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 29-Aug-2025

Sample Description

: DG Stack

Received Date

: 02-Sep-2025

Sampling Location

: DG Set (600 KVA-Old)

Commenced On

: 02-Sep-2025

Latitude

: N-10°50'85.7"

Completed On

: 08-Sep-2025

Longitude

: E-079'50'29.1"

Report Date

: 09-Sep-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition Sampling Plan and Method : Fit for Analysis : GL/EN/SOP/HI

Test Results

S, No.	Parameters	Units	Results Obtain	ed Test Method	Limit as per CPCB Standard
Discipli	ine : Chemical				
Greep	: Atmospheric Pollution				
1	Velocity	misce	191	EPA method 1-3 (Title 40 - Protection of Environment)	NA
2	Stack Temperature	K.	366	(S 11255 (Part 3)	NA
3	Flow Rate	Na3hr	2162	IS 11255 (Part 3)	NA
4	Particulate Motter	plw-br	0.10	GL/ EN/SOP/111 Issue to & Dr 02/05/04	≤0.2
5	Oxides of Nitrogen (NOs as NO2)	y\w-hr	0.74	GLAN/S00/149 house no & Dr 02/03/04	≤40
6	Carbon Monoxide as CO	glwhr	1.04	GL/EN/SOP/149 base to & Dr 02/05/04	≤15
7	Oxygen as O2	14	16.2	GL/EN/SOP/149 base to & Dr 02/05/04	NA
s	Carbon Dioxide as CO2	1%	3.8	GLAN/SOP/149 hause no & Dr. 02/05/04	NA
9	Sulphur Dioxide as 802	ng/Nm3	37.3	EPA 6 (Title 40 - Protection of Environment)	NA

Note - BLQ - Below the Limit of Quantification, LQQ - Limit of Quantification.

Note *NOX+HC - ≤ 4.8g kw-br

End of Report

R. Abubacker Sithick Chemist

GLENS INNOVATION LABS PycList, 86/1,1 St Floor , Sri Joshi Complex Murugasan Street , Balautnayagar Nagar , Arumbakkam Chermai 600106

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TEST REPORT

Report No.: EN25090057-1

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karsikal Region, U.T. of Puducheny, Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 29-Aug-2025

Sample Description

: DG Stack

Received Date

: 02-Sep-2025

Sampling Location

: DG Set (600 KVA-Old)

Commenced On

: 02-Sep-2025

Latitude

: N-10°50'85.7"

Completed On

: 08-Scp-2025 E

Longitude

: E-079"50'29.1"

Report Date

: 09-Scp-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipli	se: Chemical				
Group	: Atmospheric Pollution				
Group	: Atmospheric Pollution Hydrocurbon (HC)	g/cw-hr	BLQ(LOQ: LE)	JS: 5182 (Part1-17)	\$4.0

Note: - BLQ - Below the Limit of Quora fication, LOQ - Limit of Quantification

Note: *NOX+HC+ \$4.0gAwhr

End of Report

R. Abubacker Sithick

GLENS DINOVATION LABS Pvt Ltd, #5/1,1 St Floor , Sri Inthi Complex Ribrugeson Street , Balavineyagar Nagar , Arumbakkam Chennu 600166

Terms and Conditions

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25080030

ULR No.: TC-858225000005474F

Name of the Client

: M/s. Chemplast Sannar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry , Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 29-Jul-2025

Sample Description

DG Stack

Received Date

01.1 2021

Sampling Location

Del more

Commenced On

: 01-Aug-2025 : 01-Aug-2025

Latitude

: DG Set (600 KVA-New) : N-10°50′85.7°

Completed On

: 09-Aug-2025

Longitude

: E-079°50'29.1"

Report Date

: 09-Aug-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipl	ine : Chemical				-
Group	: Atmospheric Pollution				
1	Velocity	misee	11.6	EPA exchad 1-3 (Title 40 - Protection of Environment)	NA
2	Stack Temperature	K	371	18 11253 (Purt 3)	NA
3	Flow Rate	Nra3/hr	1053	IS 11255 (Part 3)	NA
4	Particulate Matter	g/cw-hr	0.07	GL/ EN-SOR113 Tone no A Dr. 02/05/01	502
5	Oxides of Nitrogen (NOs as NO2)	g/cu-hr	0.33	GL/EN/SOF1149 houses & Dr. 0265.04	≤40
6	Carbon Monoxide as CO	gkw-hr	0.53	GL/EN/SOP/149 Fraz no & Dr. 92/15/94	≤3.5
7	Oxygen as O2	74	18.3	GL/EN/SOP/149 Laste to & Dr. 02/05/04	NA
	Carbon Dioxide as CO2	%	1.5	GU/EN/SOP/149 long to & Dr. 02/05/84	NA
	Sulphur Dioxide as SO2	ngNm3	45.9	EPA 4 (Title 4) - Printection of Environment)	NA
		A STATE OF THE PARTY OF THE PAR			

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Note: *NOX+IIC + ≤ 4.0gAw-hr

End of Report

Authorized By
E. PRITHIVIRAJAN
LAB MANAGER

GLENS ISHOVATION LASS Put Ltd. #6/1,1 St Pipor , Sri Joshi Complex Munugesun Street , #8/avinzyagar Nagar , Arankukkam Chennai 600106

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Page 1 of 1



TEST REPORT

Report No.: EN25080030-1

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry , Pincode-611002

Sample Name

: Stack Emission

Sampling Date

1 29-Jul-2025

Sample Description

: DG Stack

Received Date

: 01-Aug-2025

Sampling Location

: DG Set (600 KVA-New)

Commenced On

: 01-Aug-2025

Latitude

Completed On

: 09-Aug-2025

: N-10°50'85.7"

Longitude |

: E-079°50'29.1"

Report Date

: 09-Aug-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipli	ne : Chemical				
Group	: Atmospheric Pollution				
1	Hydrocarton (HC)	gkw-br	BLQ(LOQ:10)	IS: 5182 (Part1-17)	≤4.0
		-		The state of the s	

Note: - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Note: *NOX+HC+≤4.0g/kw-hr

End of Report



GLERIS INNOVATION LASS Pvt tail, 85/1,1 St Floor , Sri assis Complex Munugesen Street ; Balaninayagar Nagar , Anuniyakitan Chennal 600106

Terms and Conditions:

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Page 1 of 1

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Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT



Report No.: EN25080033

ULR No. : TC-858225000005482F

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karalkal Region, U.T. of Pudochory , Pincodo-611002

Sample Name

: Stack Emission

Sampling Date

: 29-Jul-2025

Sample Description

DG Stock

Received Date Commenced On

: 01-Aug-2025 : 01-Aug-2025

Sampling Location Latitude

DG Set (250 KVA) : N-10°50'92.1"

Completed On

: 09-Aug-2025

Longitude.

E-079°50'28.5"

Report Date

: 09-Aug-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. No.	Parameters	Units	Results Obtained	Test Method	Limit as per CPCB Standard
Discipli	ine: Chemical				
Greep	: Atmospheric Pollution			40-	
ı	Velocity	m/see	10.2	EPA mothod I-3 (Title 60 - Protection of Exceptions;cst)	NA
2	Stack Temperature	K	351	IS 11255 (Part 3)	NA
3	Flow Rute	Nm3/hr	244	15 11255 (Part 3)	NA
0	Particulate Marter	g/kw-br	0.05	GL/ EN-SOW113 Issue to A Dr. 0205.04	≤0.2
5	Oxides of Nitrogen (NOcus NO2)	g/kw-br	0.39	GL/EN/SOP/149 Issue no & Dr 02/85.04	≤40
	Carbon Mosovide as CO	g/kw-hr	0.19	GL/EN/SOP/149 Inserto & Dr. 92/95/04	≤3.5
7	Oxygen as 02	%	17.9	GE/EN/SCR/149 hour to & Dr. 0345,04	NA
	Carbon Dioxide as CO2	16	1.8	GE/EN/SOP/149 Issue no & Dr. 02/15/94	NA
>	Sulphur Dioxide as SO2	mg/Nm3	316	EPA 6 (Title 42 - Protoping of Environment)	NA

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Note: *NOX+HC + ≤ 4.0g/km-br

End of Report

E. PRITHIVIRAJAN LAB MANAGER

Page 1 of 1

GLENS RESOVATION LAGS PYTER, 86/1,1 St Floor, Sri testir Compiles Munugesan Street, Balavinayagar Nagar , Anoshakkan Chenna 800166

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The taboratory's responsibility under this report is limited to proven withit negligence and will in no case be more than the involced amount.

A Satisfactory test report in no way implies that the product tested is approved by NASIL.



TEST REPORT

Report No.: EN25080033-1

Name of the Client

: M/s, Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Pudocherry , Pincode-611002

Sample Name

: Stack Emission

Sampling Date

: 29-Jul-2025

Received Date

Sample Description

: DG Stack

: 01-Aug-2025

Sampling Location

: DG Set (250 KVA)

Commenced On

: 01-Aug-2025

Latitude

: N-10°50'92.1"

Completed On

: 09-Aug-2025

Longitude

E-079"50'28.5"

Report Date

: 09-Aug-2025

Sample Submission Type

: Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sampling Plan and Method

: GL/EN/SOP/111

Test Results

S. No	Parameters	Units	Results Obtained	Test Method	Littlit as per CPCB Standard
Discip	dine: Chemical	-			
Group	: Atmospheric Pollution				
1	Hydrocarbon (HC)	akir-tr	BLQ(LOQ: 1.0)	IS: 5182 (Part)-17)	14.0
2	Smoke Light (Light Absorption Co-Efficient)	m-I	0.2	By Instrument Method	≤0.7

Note - BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification

Note: *NOX+HC - ≤ 4 lig/kw-hr

End of Report

E. PRITHIVIRAJAN LAB MANAGER

GLINS KINDOVATION LABS Pvs Ltd., #6/1.1 St Boor , Sri Jobh Complex Munugesan Street , Belavinaryagar Nagar , Anambakkam Chennol 600106

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Page 1 of 1



Online Monitoring Data - APR 25 to SEP 25

Location: 16 numbers of Chlorine sensors located around the plant (Maximum values recorded is given below)								
Parameters	APR	MAY	JUN	JUL	AUG	SEP		
Chlorine-ppm	0.02	0.02	0.02	0.02	0.03	0		





Water Analysis Data - APR 25 to SEP 25

Location: Desalination Plant (Reject water)										
Parameters	APR	MAY	JUN	JUL	AUG	SEP				
pH value	7.48	7.38	6.67	7.26	7.26	6.72				
DO, mg/L	5.9	6.4	6.4	5.8	6	5.9				
Colour, Hazen Units	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid	Clear liquid				
Odour	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable	Agreeable				
Floating Material	No presence	No presence	No presence	No presence	No presence	No presence				
TSS, mg/L	BLQ(LOQ:1.0)	BLQ(LOQ:1.0)	BLQ (LOQ: 1.0)	BLQ (LOQ: 1.0)	BLQ (LOQ: 1.0)	BLQ (LOQ: 1.0)				
Oil & Greece	BLQ(LOQ:0.1)	BLQ(LOQ:0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)	BLQ (LOQ: 0.1)				
Hg, mg/L	BLQ(LOQ:0.001)	BLQ(LOQ:0.001)	BLQ (LOQ: 0.0005)	BLQ (LOQ: 0.0005)	BLQ (LOQ: 0.0005)	BLQ (LOQ: 0.0005				
Pb, mg/L	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ (LOQ: 0.005)	BLQ (LOQ: 0.005)	BLQ (LOQ: 0.005)	BLQ (LOQ: 0.005)				
Cd, mg/L	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ (LOQ: 0.005)	BLQ (LOQ: 0.005)	BLQ (LOQ: 0.005)	BLQ (LOQ: 0.005)				

^{*} Sample report attached





Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No: EN25090888

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Puducherry, Pincode-611002

Sample Name

Desalination Reject Water

Sampling Date

: 25-Sep-2025

Sample Description

Desalination Reject Water

Received Date

: 26-Sep-2025

Sampling Location

Desalination Plant

Commenced On

: 26-Sep-2025

Latitude

N-10°50'96.0"

Completed On

: 06-Oct-2025

Latitude

E-079°50'35.5"

Report Date

: 06-Oct-2025

Sample Submission Type

Collected by Lab Representative

Sample Condition

: Fit for Analysis

Sample Quantity

2.00 Litre

Sampling Plan and Method

: GL/EN/SOP/001&003

Test Results

S.No.	Parameters	Units	Results Obtained	Test Method	Specification
Discip	oline : Chemical				
Group	: Pollution and Environment				
1	pH Value @ 25°C	-	6.72	APHA 24th Edition Part 4500 H+ B	65-85
2	Dissolved Oxygen	mg/L	5.9	APHA 24th Edition Part 4500 O,B,C	5.0
3	Colour	-	Clear Liquid	Visual Examination	No Noticeable
4	Oścur	-	Agreeable	APHA 24th Edition Part 2150 B	No Noticeable
5	Floating Malerial	-	No Suspended Matter Presence in Liquid	By Visual Method	No Obversious or detrimental for use purpose
6	Total Suspended Solids (TSS) @ 105°C	mg/L	BLQ(LOQ: 1.0)	APHA 24th Edition Part 2540 D	Note from the Sewage and or Infratrial Origin
7	Oil and Grease @ 105°C	mgL	BLQ(LOQ:01)	APHA 24th Edition Part 5520 B (Partition Gravimetric Method)	0.1
8	Mercury as Hg	mg/L	BLQ(LOQ:00005)	APHA 24th Edition Part 3125 B	0.1
9	Lead as Pb	mg/L	8LQ(LQQ:0005)	APHA 24th Edition Part 3125 B	0.1
10	Cadmium as Cd	mg/L	BLQ(LOQ: 0.005)	APHA 24th Edition Part 3125 B	0.1

Note:- BLQ - Below the Limit of Quantification, LOQ - Limit of Quantification. ang/L - Milligram per liter.

Remarks: The above Water Sample Conforms to CPCB/PPCB Norms Specification Limit with respect to the above tested parameters.

End of Report

Authorizet By
E PRITHIVIRAJAN
LAB MANAGER

GLERS INNOVATION LASS Pvt trd, #5/1,1 St Floor, Sri Job's Complex Munagesen Street , Balavinayagar Nagar , Asymbatkam Chemiai 600106

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Noise Survey Data - APR 25 to SEP 25

Location: Around the entire plant area (Maximum values recorded is given below)								
Parameters	APR	MAY	JUN	JUL	AUG	SEP		
Day Leq, dBA	58.9	58	58.8	59.2	58.4	58.9		
Night Leq, dBA	57	55.4	55.4	54.6	54	54.3		

* Sample report attached





Certified as per ISO 9001:2015 & ISO 45001:2018

TEST REPORT

Report No.: EN25090867-876 ULR No.: TC-858225000006737F-6741F

Name of the Client

: M/s. Chemplast Sanmar Limited

Address of the Client

: 315, Melavanjore, Nagore Post, Karaikal Region, U.T. of Pudocherry, Pincode-611002

Sample Description#

: Noise Level Monitoring

Sampling From

: 23-Sep-2025

Sampling Location

: Ambient

Received Date

: 26-Sep-2025

Test Report as per

CPCB Norms

Commenced On Completed On

: 26-Sep-2023

Sample Condition

Sample Submission Type : Collected by Lab Representative Fit for Analysis

Report Date

: 06-0at-2025 : 06-0ct-2025





Test Results

S.No	Location Name	Method	Result	Specification
Discip	line: Chemical			
Greap	: Atmospheric Pollution			
1	CD Plant- GAIL Station (Day Time), Leq dB (A)	IS 9989	49.2	75 dBA (Max) 66.00 AM to 10.00 PM
2	ICD Plant- GAIL Station (Night Time), Leq dB (A)	12 9959	47.4	70 dBA (Max) 10 00 PM to 06 00 AM
1	CD Plant-New Temple (Day Time), Leq dB (A)	IS 9989	50.2	75 dBA (Max) 66 00 AM to 10 00 PM
4	CD Plant-Neur Temple (Night Time), Leq dB (A)	15 9989	48.6	00 dBA (Max) 10,00 FM to 66 00 AM
5	PVC Plant-Active SLF (Day Time), Leq dB (A)	18 9989	56.0	75 dBA (Max) 66.00 AM to 10.00 PM
	PVC Plant-Active SLF (Night Time), Log dB (A)	15 9559	52.9	20 dBA (Max) 10 00 PM to 56 00 AM
,	PVC Plant-Old SLF (Duy Time), Leq dB (A)	35 9989	57.0	75 dBA (Max) 06:00 AM to 10:00 PM
	PVC Plant-Old SLF (Night Time), Leq dB (A)	12 6180	50.5	20 dBA (Max) 80,000 PM to 06,00 AM
	PVC Plant-Scrap Yard (Day Time), Leq dB (A)	S 9989	58.9	75 dBA (Mrx) 2600 AM to 1000 PM
10	PVC Plant-Scrap Yard (Night Time), Leq dB (A)	IS 9989	54.3	20 dBA (Max) 10 00 PM to 06 00 AM

represents Customer Defined Fields

Note:- Instrument Used: Sound Level meter.

Remarks: The above sample complies with CPCB norms with respect to the above tested parameters.

*** End of Report***

Page Left

E. PRITHIVIRAJAN LAB MANAGER

SLENS INNOVATION LASS Pvt Ltd. #6/1,1 St Foor , Sri kothi Complex Microgram Street , Balavirayagar Nagar , Acumbakkan Chenna 600306

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Employee Name

Mr. L JOHN ANAND ANTONY

SID No

: 141272

Employee Hos_ID

HOSCONS39842

Received On

19-12-2024

Age/Sex

46.0Yrs/Male

Printed On

26-12-2024

Employee ID

LJ 501

Mobile No

9894923005

Report Status

Final

Department

PRODUCTION

MEDICAL HISTORY

Nil Personal History

Present Complaints

Nil Specific Complaint

Family History

Father & Mother-DM

ANTHROPOMETRIC DATA

Height

174-Cm

Weight 83-Kg

27.4 BMI

BP 119/83mm Hg

Pulse 71/min

REPORT ENCLOSED

Blood Report

Normal

GENERAL ADVICES

* Eat green, leafy vegetable such as spinach and collards

* Drink Three liters of water daily

FITNESS STATUS

Mr. L JOHN ANAND ANTONY is medically examined and found to be "FIT" for work.

HOSCONS Healthcare India Pvt Ltd Occupational Physician Reg. No. 80127







Employee Name

: Mr. L JOHN ANAND ANTONY

SID No

: 141272

Employee Hos_ID

: HOSCONS39842

Received On

: 19-12-2024

Age/Sex

: 46.0Yrs/Male

Printed On

: 26 12-2024

Employee ID

: U 501

Mobile No

: 9894923005

Department

: PRODUCTION

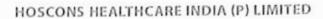
Report Status

: Final

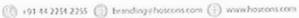
TEST NAME	RESULT	UNIT	NORMAL RANGE
HAEMATOLOGY COMPLETE BLOOD COUNT			
HAEMOGLOBIN	17.6	gm/dl	Male :13.5 - 18.0 gm/dl Female: 11.5 - 16.4 gm/dl
PCV	59.8	%	40 - 65 %
TOTAL WBC COUNT	5420	Cells/cmm	4,500 · 11,000 Cells/cmm
RBC COUNT	5.3	Mill/Cmm	4.7- 6.1 Mill/Cmm
MCV	94	fL	76 - 96 fL
мсн	30.2	pg	27 - 32 pg
MCHC	32	gm%	30 - 35 gm%
PLATELET COUNT	2.61	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm
NEUTROPHILS	61	%	40.0 - 80.0
LYMPHOCYTES	29	%	20.0 - 40.0
EOSINOPHILS	4	%	1.0 - 6.0
MONOCYTES	6	%	2.0 - 10.0
BIOCHEMISTRY			
BLOOD SUGAR (RANDOM)	87	mm/dl	80 - 140 mm/dl
BLOOD UREA	23	mgs/dl	10-40 mgs/dl
BUN	10.7	mgs/dl	5-21 mgs/dl
S. CREATININE	0.90	mg/dl	0.6-1.2 mg/dl
LIPID PROFILE			
TOTAL CHOLESTEROL	163	mg/dL	Desirable: < 200
			Borderline: 200 - 239

High: >=240















Employee Name	: Mr. L JOHN ANAND ANTONY	SID No	:	141272
Employee Hos_ID	: HOSCONS39842	Received On	1	19-12-2024
Age/Sex	: 46.0Yrs/Male	Printed On		26-12-2024
Employee ID	: LJ 501	Mobile No		9894923005
Department	: PRODUCTION	Report Status	:	Final

TEST NAME	RESULT	UNIT	NORMAL RANGE
LIVER FUNCTION TEST			
BILIRUBIN TOTAL	0.8	mg/dL	0.1 - 1.2
BILIRUBIN - DIRECT	0.3	mg/dl.	0 - 0.3
BILIRUBIN - INDIRECT	0.5	mg/dl	0.2 - 0.8
S.G.O.T	38	U/L	5.0 - 40.0
S.G.P.T	42	U/L	7 to 56
ALKALINE PHOSPHATASE	57	U/L	44 to 147
T.PROTEIN	6.9	gms/dl	6.0 - 8.7
S.ALBUMIN	4.0	gms/dl	3.2 to 5.0
GLOBULIN	2.9		2 - 3.5
A G RATIO	1.38		

*** End of Report****

ah Technician

Mr. Prabaharan. B.Sc (Microbiology) Chief of Laboratory Services



RECORDERS & MEDICARE SYSTEMS

Plot # 196, Industrial Area, Phase-1, Panchkula, Haryana INDIA - 134113

Patient: John 1j501 Refd.By:

Pred.Eqns: RECORDERS

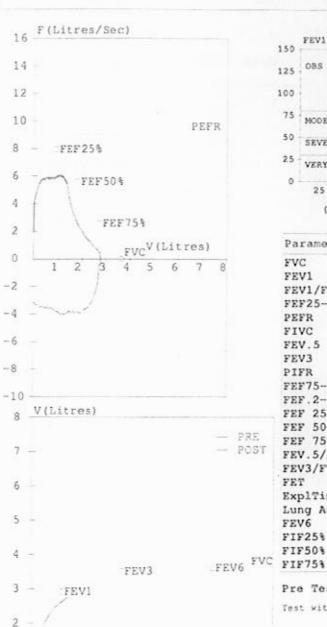
: 10-Jun-2024 04:06 PM

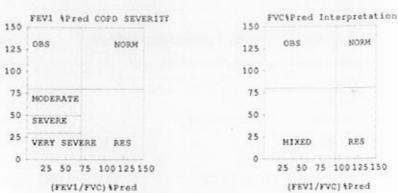
Age : 45 Yrs Height: 175 Cms

Gender Smoker : No Eth. Corr: 100 Weight: 82 Kgs Temp



RES





FVC Results Parameter Pred M.Pre %Pred M.Post %Pred % Imp 03.63 02.76 076 FVC (L) 02.92 02.64 090 FEV1 (L) FEV1/FVC 80.44 95.65 (8) 119 FEF25-75 (L/s) 03.81 03.77 099 09.03 06.06 PEFR 067 (L/s) 03.50 FIVC (L) ---- 02.09 FEV.5 (L) ____ 03.52 02.76 FEV3 078 (L) ---- 04.01 PIFR (L/s) FEF75-85 (L/s) ---- 01.41 FEF. 2-1.2 (L/s) 06.80 05.74 084 FEF 25% (L/s) 07.96 05.77 072 FEF 50% (L/s) 05.60 05.15 092 FEF 75% 02.58 01.72 067 (L/s)FEV.5/FVC 75.72 (8) FEV3/FVC (%) 96.97 100.00 103 FET (Sec) 01.23 00.03 ExplTime (Sec) Lung Age (Yrs) 045 049 109 FEV6 (L) 03.63 -----.... FIF25% ---- 03.96 (L/s) ---- 03.47 FIF50% (L/s)----(L/s) ---- 00.75 ---

Pre Test COPD Severity Test within normal limits

Doctor's Notes Spirometry within normal limits.

3

2

0

Factory Medical Officer ma Champast Sathar Luca

Karsikai

The locations of this deport require clinical on-relation before any clinical action.

5 6 T (Seconds)





Employee Name Employee Hos_ID Mr. JAYACHANDIRAN C

HOSCONS39859

Age/Sex

36.0Yrs/Male

Employee ID

: CJ 2

Department

PRODUCTION

SID No

: 141289

Received On

: 19-12-2024

Printed On

: 26-12-2024

Mobile No

: 9865131541

Report Status

: Final

8.4	ED	CAL	1.11	IC7	ORY
177	EU	CHL	111	131	OWI

Personal History

Nil

Present Complaints

Nil Specific Complaint

Family History

Father-DM

ANTHROPOMETRIC DATA

Height

170-Cm

Weight 79-Kg

BMI

27.3

BP 129/87mm Hg

Pulse 95/min

REPORT ENCLOSED

Blood Report

Normal

GENERAL ADVICES

- * Eat green, leafy vegetable such as spinach and collards
- * Drink Three liters of water daily

FITNESS STATUS

Mr. JAYACHANDIRAN C is medically examined and found to be "FIT" for work.

MOSCONS Healthcare India Pvt Ltd Occupational Physician Ren. Ho: 80127







: Mr. JAYACHANDIRAN C Employee Name

: HOSCONS39859 Employee Hos_ID

: 36.0Yrs/Male Age/Sex

; CJ 2 Employee ID

: 141289 SID No

: 19-12-2024 Received On : 26-12-2024 Printed On

: 9865131541 Mobile No

Employee ID : CJ 2		Report Status	: Final
Department : PRODUCTION	RESULT	UNIT	NORMAL RANGE
TEST NAME	KESULI		
HAEMATOLOGY			
COMPLETE BLOOD COUNT	16.7		Male :13.5 - 18.0 gm/di
HAEMOGLOBIN	10.7	gm/dl	Female: 11.5 - 16.4 gm/dl
PCV	66.97	%	40 - 65 %
	7890	Cells/cmm	4,500-11,000 Cells/cmm
TOTAL WBC COUNT	6.41	Mill/Cmm	4.7- 6.1 Mill/Cmm
RBC COUNT	97	fL	76 - 96 fL
MCV	30	pg	27 - 32 pg
MCH	31.1	gm%	30 - 35 gm%
MCHC	2.88	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm
PLATELET COUNT	54	%	40.0 - 80.0
NEUTROPHILS	33	%	20.0 - 40.0
LYMPHOCYTES	4	%	1.0 - 6.0
EOSINOPHILS	9	%	2.0 - 10.0
MONOCYTES			
BIOCHEMISTRY			
BLOOD SUGAR (RANDOM)	77	mm/dl	80 - 140 mm/dl
	19	mgs/dl	10-40 mgs/dl
BLOOD UREA	8.9	mgs/dl	5 - 21 mgs/dl
BUN	0.82	mg/dl	0.6-1.2 mg/dl
S. CREATININE			
LIPID PROFILE		7.0	Desirable: < 200
TOTAL CHOLESTEROL	164	mg/dl	Borderline: 200 - 239
			High: >=240

HOSCONS HEALTHCARE INDIA (P) LIMITED









Employee Name	: Mr. JAYACHANDIRAN C	SID No	: 141289
Employee Hos ID	: HOSCON\$39859	Received On	: 19-12-2024
Age/Sex	: 36.0Yrs/Male	Printed On	: 26-12-2024
Employee ID	: CJ 2	Mobile No	: 9865131541
Department	: PRODUCTION	Report Status	: Final

TEST NAME	RESULT	UNIT	NORMAL RANGE
LIVER FUNCTION TEST			
BILIRUBIN - TOTAL	0.9	mg/dL	0.1 - 1.2
BILIRUBIN - DIRECT	- 0.2	mg/dL	0 - 0.3
BILIRUBIN INDIRECT	0.7	mg/dl	0.2 - 0.8
S.G.O.T	23	U/L	5.0 - 40.0
S.G.P.T	34	U/L	7 to 56
ALKALINE PHOSPHATASE	131	U/L	44 to 147
T.PROTEIN	6.9	gms/dl	6.0 - 8.7
S.ALBUMIN	4.1	gms/dl	3.2 to 5.0
GLOBULIN	2.8		2 - 3.5
A G RATIO	1.46		

*** End of Report****

Lab Technician

Mr. Prabaharan. B.Sc (Microbiology) Chief of Laboratory Services



RECORDERS & MEDICARE SYSTEMS

Plot # 196, Industrial Area, Phase-1, Panchkula, Haryana INDIA - 134113

Patient: Jayachandiran EDC

Refd.By:

Pred.Eqns: RECORDERS

Date : 25-Jun-2024 10:51 AM

Height: 170 Cms

ID

Weight: 82 Kgs

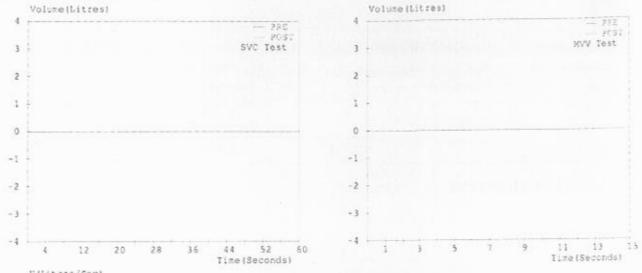
: 88

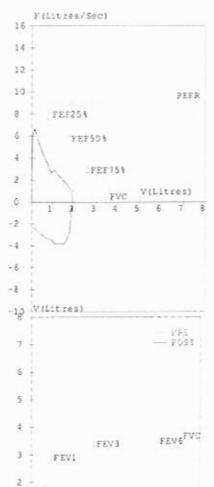
: 36 Yrs 02 Mths Gender : Male

Smoker : No Eth. Corr: 100

Temp







	****	Pred	M. Dra	pred	M. Post	Sprod	Sten	
Parez	crei	2000			11.1.000	11.100	*****	
FVC	(L)	03.51	01.92	053				
FEV1	(L)	02.91	01.72	164				
FEV1/	FVC (%)	82.91	100.00	121				
FEF25	-75 (L/s)	04.12	02.35	06)				
PEFR	(L/s)	08.99	25.53	0.13				
FIVO	(1)		02.37					
FEV.5	(L)		21.53			5.55		
FEV3	(L)	03.40	21.22	655				
PIFR	(L/s)		01.85					
FEF75	-85 (L/s)		01.67					
FEF. 2	-1.2(L/s)	07.16	03.50	049				
FEF 2	5% (L/s)	07.96	94.43	055				
FEF 5	0% (L/s)	05.74	72.59	047				
FEF 7	59 (1/s)	02.88	32,00	689				
FEV.5	/FVC (%)		32.31					
FEV3/		96.87	100.00	103				
FET	(Sec)		00.57					
ExplT	ine (Sec)		00.02					
Lung		036	018	Tall				
FEV6	(1.)	03.51						
FIF 2	5% (L/s)		21.43			0.00		
FIF 5	0% (L/s)		12.71					
FIF 7	5% (L/s)		31.34					
SVC	(L)	****					0.00	
ERV	(L)	01.42						
IRV	(L)							
VΕ	(L/min)							
Rf	(1/min)							
Ti	(sec)							
Te	(sec)					2.5.7		
VT	(L)							
VT/Ti	970							
Ti/Tt	ot	+***						
IC	(L)							
MVV	(L/min)	136						
MRf	(1/min)							
MVT	(L)							

Doctor's Notes Spirometry within normal limits.

> D.B.SENTHIANNAR, HBAS ASS. RegReschiplkumar

Eactory Medical Officer Chemptest Saidhar Co.

Karaiker

The unctents of this report require clinical consension before ony plinical aution.

4 5 T(Seconds)





Employee Name Mr. PRAKASH K SID No 141219 Employee Hos_ID HOSCONS39789 Received On 19-12-2024 Age/Sex 29.0Yrs/Male Printed On 26-12-2024 Employee ID KP529 Mobile No 8344566751 Department PRODUCTION

Report Status Final MEDICAL HISTORY Personal History Present Complaints Nil Specific Complaint Family History Nil Significant ANTHROPOMETRIC DATA Height 153.5-Cm Weight 50-Kg BMI 21.2 117/82mm Hg Pulse 80/min

REPORT ENCLOSED

Blood Report Normal

GENERAL ADVICES

- * Eat green, leafy vegetable such as spinach and collards
- * Drink Three liters of water daily

FITNESS STATUS

Mr. PRAKASH K is medically examined and found to be "FIT" for work.

Dr. C. SATH VADARAYAMAH, MBBS, APHI, Dib. Cos Haelih KOSGONS Healthcere India Pvt Ltd Occupational Physician Reg. No. 20127







Employee Name	: Mr. PRAKASH K	SIDNo	2	141219
Employee Hos_ID	: HOSCONS39789	Received On	:	19-12-2024
Age/Sex	: 29.0Yrs/Male	Printed On		26-12-2024
Employee ID	: KP529	Mobile No		8344566751
Department	: PRODUCTION	Report Status		Final

Department : PRODUCTION		Report Status	: Final
TEST NAME	RESULT	UNIT	NORMAL RANGE
HAEMATOLOGY COMPLETE BLOOD COUNT			Total Control
HAEMOGLOBIN	16.1	gm/dl	Male :13.5 - 18.0 gm/di Female: 11.5 - 16.4 gm/di
PCV	50.08	%	40 - 65 %
TOTAL WBC COUNT	7750	Cells/cmm	4,500-11,000 Cells/cmm
RBC COUNT	5.0	Mill/Cmm	4.7- 6.1 Mill/Cmm
MCV	102	fL.	76 - 96 fL
MCH	32.5	рв	27 - 32 pg
MCHC	31.7	gm%	30 - 35 gm%
PLATELET COUNT	2.99	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm
NEUTROPHILS	67	%	40.0 - 80.0
LYMPHOCYTES	22	%	20.0 - 40.0
EOSINOPHILS	4	%	1.0 - 6.0
MONOCYTES	7	%	2.0 - 10.0
BIOCHEMISTRY			
BLOOD SUGAR (RANDOM)	90	mm/dl	80 - 140 mm/dl
BLOOD UREA	19	mgs/dl	10-40 mgs/dl
BUN	8.9	mgs/dl	5-21 mgs/dl
S. CREATININE	0.61	mg/dl	0.6 - 1.2 mg/dl
LIPID PROFILE			
TOTAL CHOLESTEROL	133	mg/dL	Desirable: < 200
			Borderline: 200 - 239

High: >=240







Employee Name	: Mr. PRAK	ASH K SID No	- :	141219
Employee Hos_ID	: HOSCONS	39789 Receive	d On :	19-12-2024
Age/Sex	: 29.0Yrs/M	ale Printed	On :	26-12-2024
Employee ID	: KP529	Mobile	No :	8344566751
Department	: PRODUCTI	ON Report S	Status :	Final

TEST NAME	RESULT	UNIT	NORMAL RANGE	
LIVER FUNCTION TEST				
BILIRUBIN - TOTAL	0.7	mg/dL	0.1 - 1.2	
BILIRUBIN - DIRECT	0.2	mg/dL	0 - 0.3	
BILIRUBIN - INDIRECT	0.5	mg/dl	0.2 - 0.8	
5.G.O.T	30	U/L	5.0 - 40.0	
\$.G.P.T	46	U/L	7 to 56	
ALKALINE PHOSPHATASE	124	U/L	44 to 147	
T.PROTEIN	7.0	gms/dl	6.0 - 8.7	
SALBUMIN	3.6	gms/dl	3.2 to 5.0	
GLOBULIN	3.4		2 - 3.5	
A G RATIO	1.06			

*** End of Report****

Mr. Prabaharan. B.Sc (Microbiology) Chief of Laboratory Services



RECORDERS & MEDICARE SYSTEMS

Plot # 196, Industrial Area, Phase-1, Panchkula, Haryana INDIA - 134113

Patient: KPrakash

Refd.By:

Pred.Eqns: RECORDERS

Date : 11-06-2024 07:25 PM

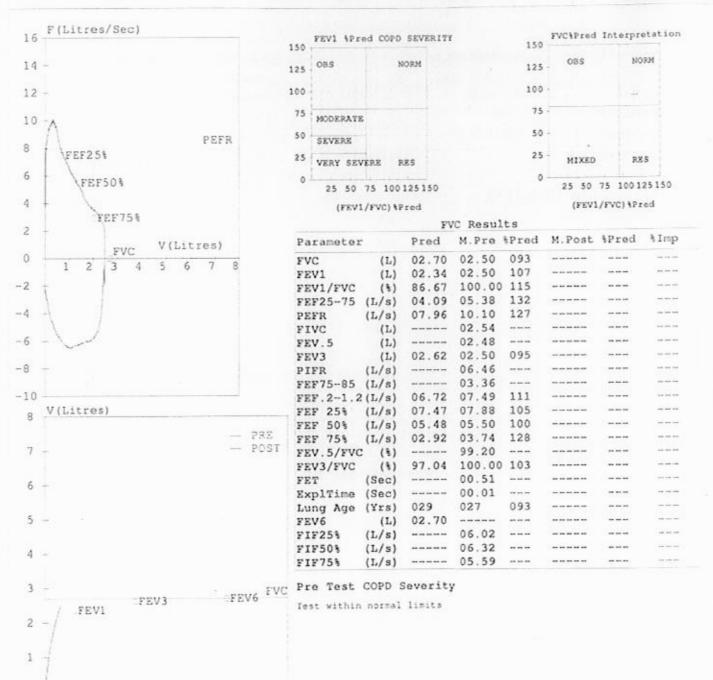
Age : 29 Yrs Height : 152 Cms

Weight: 48 Kgs

Gender : Male Smoker : No

Eth. Corr: 100 Temp :





Pre Medication Report Indicates
Spirometry within normal limits as (FEV1/FVC) %Pred >95 and FVC%Pred >80

5 6 T(Seconds)

> Dr.B.S. D. Fred William r Reg. No.: M 4225

Chemplast Sanmar Lic.
Karsalaa

2





Employee Name Mr. ROBINS V

Employee Hos_ID HOSCONS39898

Age/Sex 32.0Yrs/Male Employee ID KLBS 00052

Department TUNNER SID No

: 141328

Received On

: 19-12-2024

Printed On

: 26-12-2024

Mobile No

8072777185

Report Status

: Final

MEDICAL HISTORY

Personal History Nil

Present Complaints Nil Specific Complaint

Family History Nil Significant

ANTHROPOMETRIC DATA

Height 164-Cm Weight 81-Kg BMI 30.1 Fulse 94/min 134/76mm Hg

REPORT ENCLOSED

Blood Report Normal

GENERAL ADVICES

- * Eat green, leafy vegetable such as spinach and collards
- * Drink Three liters of water daily

FITNESS STATUS

Mr. ROBINS V is medically examined and found to be "FIT" for work.

HOSGONS Healthcare India Pvt Ltd Occupational Physician Reg. No. 89127







Employee Name	: Mr. ROBINS V	SID No	: 141328
Employee Hos_ID	: HOSCONS39898	Received On	
		Received on	: 19-12-2024
Age/Sex	: 32.0Yrs/Male	Printed On	: 26-12-2024
Employee ID	· VIDCODORD		
complete to	: KLBS 00052	Mobile No	: 8072777185
Donastosas			

Department : TUNNER		Report Status	: Final
TEST NAME	RESULT	UNIT	NORMAL RANGE
HAEMATOLOGY COMPLETE BLOOD COUNT		32750	
HAEMOGLOBIN	15.1	gm/dl	Male :13.5 - 18.0 gm/dl Female: 11.5 - 16.4 gm/dl
PCV .	47.14	%	40 - 65 %
TOTAL WBC COUNT	7500	Cells/cmm	4,500- 11,000 Cells/cmm
RBC COUNT	4.5	Mill/Cmm	4.7- 6.1 Mill/Cmm
MCV	105	fL	76 - 96 fL
MCH	33.5	pg	27 - 32 pg
MCHC	32	gm%	30 - 35 gm%
PLATELET COUNT	2.59	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm
NEUTROPHILS	65	%	40.0 - 80.0
LYMPHOCYTES	30	%	20.0 - 40.0
EOSINOPHILS	2	%	1.0 - 6.0
MONOCYTES	3	%	2.0 - 10.0
BIOCHEMISTRY			
BLOOD SUGAR (RANDOM)	80	mm/dl	80 - 140 mm/dl
BLOOD UREA	19	mgs/dl	10 - 40 mgs/dl
BUN	8.9	mgs/dl	5 - 21 mgs/dl
S. CREATININE	1.06	mg/dl	0.6 - 1.2 mg/dl
LIPID PROFILE			in the median
TOTAL CHOLESTEROL	194	mg/dL	Desirable: < 200
			Borderline: 200 - 239

High: >=240







Employee Name	: Mr. ROBINS V	SID No	:	141328
Employee Hos_ID	: HOSCON539898	Received On	:	19-12-2024
Age/Sex	: £2.0Yrs/Male	Printed On	:	26-12-2024
Employee ID	: KLBS 00052	Mobile No	:	8072777185
Department	: TUNNER	Report Status	:	Final

TEST NAME	RESULT	UNIT	NORMAL RANGE
LIVER FUNCTION TEST			
BILIRUBIN - TOTAL	0.8	mg/dL	0.1 - 1.2
BILIRUBIN - DIRECT	0.2	mg/dL	0 - 0.3
BILIRUBIN - INDIRECT	0.6	mg/dl	0.2 - 0.8
5.G.O.T	24	U/L	5.0 - 40.0
S.G.P.T	29	U/L	7 to 56
ALKALINE PHOSPHATASE	66	U/L	44 to 147
T.PROTEIN	6.2	gms/dl	6.0 - 8.7
S.ALBUMIN	3.1	gms/dl	3.2 to 5.0
GLOBULIN	3.1		2 - 3.5
A G RATIO	1		

*** End of Report****

Lab Technician

Mr. Prabaharan. B.Sc (Microbiology) Chief of Laboratory Services



RECORDERS & MEDICARE SYSTEMS

Plot # 196,Industrial Area,Phase-1, Panchkula, Haryana INDIA - 134113

Patient: V Robins

Refd.By: Pred.Eqns: RECORDERS

Date : 02-Jul-2024 12:19 PM

Age : 32 Yrs Height : 167 Cms Weight : 78 Kgs

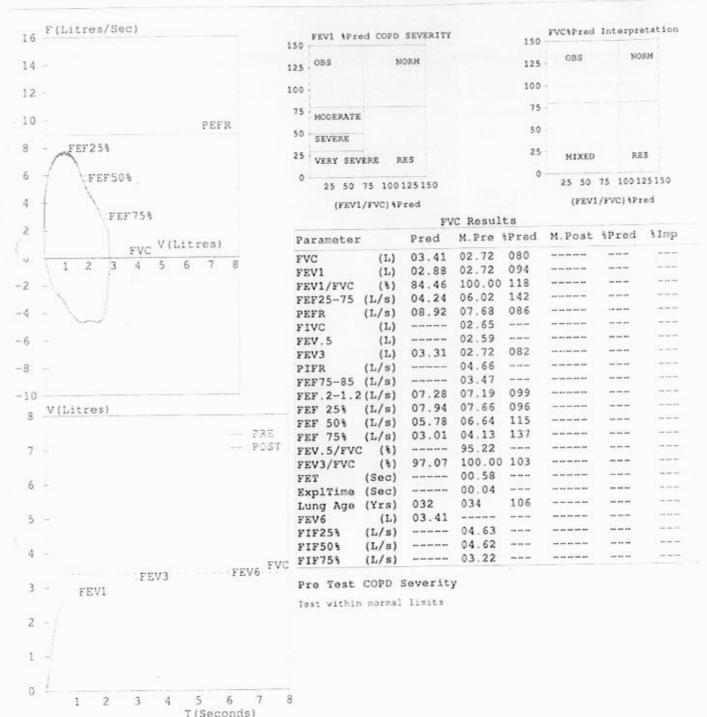
: 127

ID

Gender : Male Smoker : No Eth. Corr: 100

Temp :





Doctor's Notes Spirometry within normal limits.

Dr.B.SENTHIL RUMAR, HEAS WILL, Regulos ant 1325 umax
Factory Medical Officer
Chemplast Sammar Ltd.

Karalkal

The connects of this septet require clinical co-relation before any clinical action.

Photographs - Green Belt





भारत सरकार/Government of India

वाणिज्य और उद्योग मंत्रालय/Ministry of Commerce & Industry

पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो) /Petroleum & Explosives Safety Organisation (PESO)

A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन, 26 हड्डोउस रोड, नुंगम्बक्कम चेन्नै- 600006

A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan, 26 Haddous Road, Nungambakkam, Chennai - 600006

ई-मेल:/E-mail : jtccechennai@explosives.gov.in

फोन / फ़ैक्स नंबर:/Phone/Fax No : 044 -

28287118,28281023,28281041,28287119/28284848

दिनांक/Dated : 02/08/2024

अनुज्ञप्ति सं./No : S/HO/PY/03/11(S13690)

सेवा में/10.

M/S. CHEMPLAST SANMAR LIMITED, 9. CATHEDRAL ROAD. Parthasarathypuram, Teynampet,

Chennai,

Chennai,

Taluka: Chennai, District: CHENNAI, State: Tamil Nadu PIN: 600086

विषय :/Sub : Plot No, In the plant, Nagore Main Road,, MELAVANJORE, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 स्थित CHLORINE, गैस के संपीडित पात्र / पात्रों में भंडारण के लिए स्थिर एवं गतिशील दाव पात्र (अज्वलित) नियम, 2016 के अधीन स्वीकृत अनुज्ञप्ति संख्या S/HO/PY/03/11 के नवीनीकरण संवंध में /Storage of NCHLORINE gas in pressure vessels at Plot No, In the plant, Nagore Main Road,, MELAVANJORE, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 -Licence No: S/HO/PY/03/11 grant in form LS-1A of SMPV(U) Rules, 2016-Renewal of Licence Regarding

महोदय/Sir(s),

कृपया आपके दिनांक : 31/07/2024 के पत्र संख्या: OIN1724512 का संदर्भ ग्रहण करें I/Please refer to your application No.OIN1724512 dated 31/07/2024.

अनुज्ञप्ति संख्या : S/HO/PY/03/11 का नवीकरण दिनांक 30th सितंबर 2027 तक कर इसके साथ अग्रेषित की जा रही हैं । Licence Number: S/HO/PY/03/11 is renewed and is valid upto 30th September 2027 is forwarded herwith.

दिनांक 30/09/2027 . से आगे अनुज्ञप्ति नवीनीकरण हेत् उपरोक्त नियम के नियम 55 के प्रावधानों का पालन किया जाएं । विलंब शुल्क से बचने हेतु शुल्क के साथ मूल अनुज्ञप्ति तथा अन्य दस्तावेज अधिकतम दिनांक : 30 सितंबर, 2027 तक The Jt. Chief Controller of Explosives, South Circle, Chennai में जरूर पहुंच जाने चाहिए ।

The provisions of the Rule 55 of the above said rules shall be followed for further renewal of the licence beyond 30/9/2027. The renewal application along with fees, Original licence and other documents shall reach in the Office of The Jt. Chief Controller of Explosives, South Circle, Chennai, latest by 30th September, 2027 to avoid late fee.

कृपया अनुज्ञप्ति प्राप्ति की पावती दें I/Please acknowledge the receipt of the licence.

भवदीय/Yours faithfully,

((डा.डी.जीवारलम्) (Dr. D. Jeevarathinam)) उप विस्फोटक नियंत्रक Dy. Controller of Explosives कृते संयुक्त मुख्य विस्फोटक नियंत्रक For Jt. Chief Controller of Explosives ਚੇੜੈ/Chennai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://peso.gov.in देखें) (For more information regarding status,fees and other details please visit our website http://peso.gov.in) Note:-This is system generated document does not require signature.



FORM LS-1A/प्ररुप - एलएस-1क

(See Rules 50, 51, 54 and 55)/(नियम 50, 51, 54 और 55 देखें)

Licence to Store Compressed gas in pressure vessel or vessels दाब पात्र या पात्रों में संपीडित गैस भण्डारकरण के लिए अनुज्ञप्ति

अनुज्ञप्ति सं/Licence No. : S/HO/PY/03/11(S13690)

फीस रुपए/Fee Rs. 50000/- per year/प्रति वर्ष

Licence is hereby granted to M/S. CHEMPLAST SANMAR LIMITED, 9, CATHEDRAL ROAD, Parthasarathypuram, Teynampet ,Chennai,Chennai, Taluka: Chennai, District: CHENNAI , State: Tamil Nadu PIN: 600086 valid only for the storage of compressed gas in 5 Number(s) of pressure vessels as indicated below in the licensed premises described below and shown in the plan No.S/HO/PY/03/11(S13690) dated 17/06/2019 subject to the provisions of the Indian Explosives Act, 1884 (4 of 1884) and the rules made thereunder and to the further conditions of this licence. श्री M/S. CHEMPLAST SANMAR LIMITED, 9, CATHEDRAL ROAD, Parthasarathypuram, Teynampet ,Chennai,Chennai, Taluka: Chennai, District: CHENNAI , State: Tamil Nadu PIN: 600086 को नीचे वर्णित अनुज्ञप्त परिसरों में और रेखांकन संख्या S/HO/PY/03/11(S13690) dated 17/06/2019 में भारतीय विस्फोटक अधिनियम, 1884 (1884 का 4) और उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अन्य शर्तों पर 5 दाव पात्र / पात्रों में संपीड़ित गैस के भण्डारण के लिए अनुज्ञप्ति मंजूर की जाती है।

यह अनुज्ञप्ति 30 सितंबर 2027 तक प्रवृत्त रहेगी।

The Licence shall remain in force till the 30th September2027.

Vessel No./वेसल नंबर	Name of Gas/ गैस का नाम	State of Gas/ गैस की स्थिति	Water Capacity in cubic meter/ जल क्षमता (घ.मी.)		Quantity Granted in kgs(Liquified gas)/किलोग्रॅम में जारी मात्रा (लिक्विफाईड गेसेस)
24-T-01 A	CHLORINE	Liquified	42.50	18	50000
24-T-01-B	CHLORINE	Liquified	42.50	18	50000
24-T-01-C	CHLORINE	Liquified	42.50	18	50000
24-T-01 D	CHLORINE	Liquified	42.00	18	1
22-T-01E	CHLORINE	Liquified	42.00	12	47880
To	otal Water capa	city	211.50		

August 27, 2003

For Chief Controller of Explosives HQ, Nagpur कृते मुख्य विस्फोटक नियंत्रक नागपुर

1). Amendment dated - 19/07/2006

2). Amendment dated - 13/10/2010

DESCRIPTION AND LOCATION OF THE LICENSED PREMISES/अनुज्ञप्त परिसर का विवरण और अवस्थिती

The licensed premises, the layout boundaries and other particulars of which are shown in the attached approved plan No. S/HO/PY/03/11 dated 17/06/2019 are situated at KaraikalMELAVANJORE and consists of 5 Number(s) vessel(s) (out of 5 vessel(s), one vessel each for CHLORINE, CHLORINE, CHLORINE, CHLORINE, CHLORINE, of largest capacity will be kept empty for emergency for storage of :/अनुज्ञप्त परिसर, प्रदर्शित सीमा और अन्य विवरण जो संलग्न अनुमोदित रेखाचित्र क्र.S/HO/PY/03/11 दिनांक 17/06/2019 में दर्शाए गए है KaraikalMELAVANJORE पर स्थित है और इसमे 5 वेसल सम्मिलित है।

a) Flammable/Corrosive/Toxic Gases :/ज्वलनशील / संक्षारक / विषेली गैसों: CHLORINE

b) Non-Toxic Gases :/अविषैली गैसों :

and is situated at PlotNo: In the plant, Village/Town: KaraikalMELAVANJORE, Police Station: Melvanjore, District: KARAIKAL, State: Pondicheri, Pin: 611002.

ruenic संख्या PlotNo : In the plant, गाँव या नगर : KaraikalMELAVANJORE, पुलीस थाना : Melvanjore, जिला : KARAIKAL, राज्य :

Pondicheri , Pin : 611002 में स्थित है।

SPACE FOR ENDORSEMENT OF RENEWALS/नवीकरण के पृष्ठांकन के लिए स्थान

	Date of Renewal/ नवीकरण की तारीख	अनुरुप्ति की समाप्ति की नारीख	Signature and stamp of the licensing authority/अनुज्ञापन प्राधिकारी के हस्ताक्षर और कार्यालय की मुद्रा
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This licence shall be renewable without any concession in fee for three years in the absence of contravention of the provision of the Indian Explosives Act, 1884, or the Static and Mobile Pressure Vessles (Unfired) Rules, 2016, framed thereunder or of the conditions of the licence. /अनुज्ञप्ति, भारतीय विस्फोटक अधिनयम, 1884 या उसके अधीन अधीन बनाए गए स्थिर एवं गतिशील दाब पात्र (अज्वलित) नियम, 2016 या इस अनुज्ञप्ति की शर्तों का उल्लंघन न होने की दशा में, फीस में बिना किसी छूट के तीन वर्ष तक नवीकृत की जाएगी।	02/08/2024	30/09/2027	Dr. D. Jeevarathinam DCE For Jt. Chief Controller of Explosives Chennai
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This licence is liable to be cancelled if the licenced premises are not found conforming to the description and conditions attached hereto and contravention of any of the rules and conditions under which this licence is granted and the holder of this licence is also punishable with imprisonment for the term which may extend to two years or with fine which may extend to three thousand rupees or with both./यदि निरीक्षण के समय अनुज्ञप्त परिसर इससे उपाबद्ध विवरण और शर्तों के अनुरुप नहीं पाया जाता है और जिन नियमों और शर्तों के अधीन यह अनुज्ञप्ति मंजूर की गई है, उनमें से किसी का उल्लंघन होता है तो उस दशा में यह अनुज्ञप्ति रद्द की जा सकती है और अनुज्ञप्ति का धारक कारावास से, जिसकी अविध दो वर्ष तक की हो सकेगी, या जुर्माने से, जो तीन हजार रुपये तक का हो सकेगा, या दोनों से दण्डनीय भी होगा।

Note:-This is system generated document does not require physical signature.

Conditions of FORM LS-1A

License No. :S/HO/PY/03/11(S13690)

- The licensed premises shall conform to the description of location and facilities and to the approved plan, as mentioned on the body of the licence.
- 2. The licensed premises shall have prominently marked thereon the number of the licence held for it.
- The emergency telephone numbers of local fire service, police and the principal marketing company or supplier of the compressed gas, and emergency instructions shall be conspicuously displayed in the licensed premises.
- The licensed premises shall not be used for any purpose other than the purpose for which the licence is granted.
- The compressed gas shall be stored only in the vessels specified in the licence and shown in the approved plan attached hereto.
- The storage vessel shall at all times maintain requisite safety distance from any other facility, building, boundary, fencing or protected works as specified in appropriate Table specified in rule 22.
- 7. A suitable hard stand for parking of the vehicle during loading or unloading of any compressed gas shall be provided. The following minimum safety distances shall be provided between the centre of the hard stand and the storage vessel or boundary line of installation; as well as between the loading or unloading points and storage vessel or boundary line of installation as specified under item (ii) of sub-rule 5 of Rule 27.
- 8. All fitments of the vessel shall be maintained in good operating condition.
- No alteration of the position of the vessel and no replacement of the vessel shall be effected except with the
 previous sanction, in writing, of the licensing authority as provided in the rules.
- 10. Every vessel before being repaired or exhumed shall be made free of compressed gas and thoroughly cleaned in a safe manner. When a vessel is opened for cleaning or repairs, no lamp of any description either ordinary or electric, electric cables or fans and no articles, appliances or equipment capable of igniting flammable vapours shall be brought near the vessel.
- 11. No person shall cause to repair or repair either by the use of fire, welding, hot riveting or brazing any vessel used for the storage of flammable gas unless it has been thoroughly cleaned and gas-freed or otherwise prepared for safely carrying out such hot work and certified in writing, by a competent person, to have been so prepared. Where the vessel has been certified as gas-free, the certificate shall be preserved by the licensee for a period of not less than three months and produced to the licensing authority on demand.
- 12. No person shall enter any vessel used for the storage of a toxic or corrosive gas unless he is adequately protected by means of protective clothing, gas masks and such other equipments as may be required in the specific case.
- 13. Compressed gas shall be filled into or removed from the vessel through designated pipes of required specification and through transfer facilities shown in the approved plan.
- 14. The vessel shall not be filled between the hours of sunset and sunrise, unless adequate lighting of approved type is provided and except in such manner and such other condition or conditions as are specifically endorsed on the licence by the licensing authority.
- 15. All operations in the licensed premises shall be carried out by persons competent in such operation. Every person managing or employed on or in connection with the licensed premises shall abstain from any act whatsoever which tends to cause fire or explosion and which is not reasonably necessary and to the best of his ability, shall prevent any other person from doing such act.
- 16. The licensee shall provide for each licensed premises a minimum of two portable foam type or dry chemical type fire extinguishers of 9 kg. capacity each, which shall be kept ready at convenient location for immediate use in the event of any fire in addition to other fire fighting or other mitigating facilities required for flammable or toxic gases.
- 17. All valves in the premises must be permanently marked in a manner clearly indicating the direction of opening and shutting the valve.
- 18. Free access to the licensed premises shall be given at all reasonable times to any of the officers specified in

- rule 70 and every facility shall be afforded to such officer for ascertaining that the rules and the conditions of this licence are duly observed.
- 19. If the licensing authority calls upon the holder of a licence by a notice in writing to execute any repairs in the licensed premises which are, in the opinion of such authority, necessary for the safety of the premises, the holder of the licence shall execute the repairs within such period as may be specified in the notice.
- 20. Every vessel shall be outside any building and shall be supported on well designed calculations.
- 21. No artificial light capable of igniting flammable vapour shall at any time be present within nine meters of the vehicle and the loading or unloading points during the transfer of the compressed gas and no person engaged in such transfer shall smoke.
- 22. All electrically equipment such as motors switches, starters used for transfer of liquefied petroleum gas shall be of flameproof construction conforming to IS/IEC 60079-1 to 11 or of a type approved by the Chief Controller.
- 23. Smoking, naked lights, lamps, source of fire or any other stimulant capable of igniting flammable vapours shall not be allowed inside the premises. Every person managing or employed on or in connection with licensed premises shall abstain from any act whatsoever which tends to cause fire or explosion and which is not reasonably necessary and to the best of his ability, shall prevent any other person from doing such act.
- 24. Any accident, fire ,explosion or untoward incident occurred within the licensed premises shall be immediately reported to the Chief Controller of Explosives, Controller, nearest police station and District Magistrate by quickest mode of communication.

For The Jt. Chief Controller of Explosives, South Circle, Chennai



भारत सरकार Government of India वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (रैसो)

Petroleum & Explosives Safety Organisation (PESO) A और D - विंग, ब्लॉक 1-8, दूसरा तल, शास्त्री भवन, 26 हड्डोउस रोड, नुंगम्बकम चेन्ने- 600006

A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan, 26 Haddeus Road, Nungambakkam, Chennai - 600006

> E-mail: jtccechennai@explosives.gov.in Phone/Fax No: 044 -28287118,28281023,28281041,28287119/28284848

> > दिनांक /Dated : 07/12/2022

संख्या /No.: P/HQ/PY/15/524 (P163312)

PIN: 611002

सेवा में /To.

> M/s. M/s. Chemplast Sanmar Limited, PVC Division, Karaikal Plant, Melavanjore Village, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri

au Sub Plot No, S. No. 39/3, 315,MELAVANJORE VILLAGE, NAGORE POST-611002,KARAIKAL REGION,PUDUCHERRY UT, Melavanjore Village, TR. Pattinam Panchayat, Nagor, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 में स्थित विद्यमान पेट्रोलियम वर्ग B,C अधिष्ठापन में अनुप्रति सं P/HQ/PY/15/524 (P163312) के नवीकरण के संदर्भ में ।
Existing Petroleum Class B,C Installation at Plot No, S. No. 39/3, 315,MELAVANJORE VILLAGE, NAGORE POST-611002,KARAIKAL REGION,PUDUCHERRY UT, Melavanjore Village, TR. Pattinam Panchayat, Nagor, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 - Licence No. P/HQ/PY/15/524 (P163312) - Renewal regarding.

महोदय /Sir(s).

> कृपया आपके पत्र क्रमांक OIN1215207 दिनोक 26/11/2022 का अवलोकन करें । Please refer to your letter No.: OIN1215207, dated 26/11/2022

अनुप्राप्ति संख्या P/HQ/PY/15/524 (P163312) दिनांक 26/04/2022 को दिनांक 31/12/2027 तक नवीनीकृत कर इस पत्र के साथ अग्रधित की जा रही है । Licence No. P/HQ/PY/15/524 (P163312) dated 26/04/2022 is forwarded herewith duly renewed upto 31/12/2027.

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पातन करें। अनुशक्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुशक्ति की वेधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व Jt. Chief Controller of Explosives, South Circle Office, Chennai कार्यालय को प्रेषित करें। Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Jt. Chief Controller of Explosives, South Circle Office, Chennai, so as to reach his office on or before the date on which Licence expires.

कृपया पावती दें। Please acknowledge the receipt.

भवदीय Mours faithfully,

((डा.टी.एल.धनुतिंगम) (Dr. T. L. THANULINGAM)) उप मुख्य विस्फोटक नियंत्रक Dy. Chief Controller of Explosives कृते संयुक्त मुख्य विस्फोटक नियंत्रक For Jt. Chief Controller of Explosives चेत्रै/Chennai

Note:-This is system generated document does not require signature. (अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट : http://peso.gov.in देखें)
(For more information regarding status, fees and other details please visit our website: http://peso.gov.in)

न्दीनीकरण के पृशंकन के तिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS

पेटोटियम अधिनियम, १९३४ के उपबन्धों या उनके अधीन बनाए गए	नवीकरण की तारीख	समाजि को तारीह	 अनुशापन प्राधिकारी के इस्ताक्षर और स्टाम्प
नियमों या इस अनुवृद्धि की शर्ती का उत्संघन न होने की दशा में यह अनुवृद्धि किस में दिना किसी छूट के दस वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for len years in the absence of contravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	Date of Renewal	Date of Expiry of Icens	Signature and office stamp of the licencing
1).	08/05/2008	31/12/2010	Sd/- Dr.Karunamay Pandey
2).	23/12/2010	31/12/2013	Sd/-
3).	19/12/2013	31/12/2016	Sd/- Dr. P. K. Rana Dy. Chief Controller of Explosives For Jt. Chief Controller of Explosives Chennai
4).	09/09/2016	31/12/2019	Sd/- Dr Ashok Kumar Yadav Dy. Chief Controller of Explosives For Jt. Chief Controller of Explosives Chennai
5).	05/11/2019	31/12/2022	Sd/- Vijay kumar Dy. Controller of Explosives For Jt. Chief Controller of Explosives Chennai
6).	07/12/2022	31/12/2027	Dr. T. L. THANULINGAM Dy. Chief Controller of Explosives For Jt. Chief Controller of Explosives Chennai

Note:-This is system generated document does not require signature.

पदि अनुवादि परिसर इसमें उपाबद्ध विवरण और वर्तों के अनुकप नहीं पाए जाते हैं और दिन निपमों और वर्तों के अधीन पढ़ अनुवादि मंजूर की गई है उनमें से किसी का उत्तंपन होने की दशा में एड अनुवादि रह की जा सकती है और अनुवादिकारी प्रथम अपराध के लिए साधारण कारावास से, जो एक मास तक हो सकत है, या जुमान से, जो एक हजार रुपये तक हो सकता है, या दोनों से, उपोब्ध च्यानविवर्ती अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या जुमान से, जो पांच हजार रुपये तक हो सकता है, या दोनों से, उपोब्ध चंदाने से, उपोब्ध चंदाने से, उपोब्ध चंदाने से, उपोब्ध चंदाने से, जो पांच हजार रुपये तक हो संकार है, या दोनों से, उपोब्ध चंदाने से, जो पांच हजार रुपये तक हो संकार है, या दोनों से, उपोब्ध चंदाने से, जो पांच चंदाने से, उपोब्ध चंदाने से, जो पांच चंदाने से,

प्ररूप XV (प्रथम अनुसूची का अनुच्छेद ६ देखिए) FORM XV (see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आपात और भंडारकरण के लिए अनुइप्ति LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/HQ/PY/15/524(P163312)

फीस रूपए (Fee Rs.) 24000/- per year

M/s. M/s. Chemplast Sanmar Limited, PVC Division, Karaikal Plant, Melavanjore Village, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 को केवल इसमें पंपा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम 380.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/PY/15/524(P163312) तारीख 26/04/2022 जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपवंधों या उसके अधीन बनाए गए नियमों तथा इस अनुझप्ति की अतिरिक्त शर्तों के अधीन रहते हुए. यह अनुझप्ति अनुदत्त की जाती हैं।

Licence is hereby granted to M/s. M/s. Chemplast Sanmar Limited, PVC Division, Karaikal Plant, Melavanjore Village, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 valid only for the importation and storage of 380.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/PY/15/524(P163312) dated 26/04/2022 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुहान्ति 31st day of December 2027 तक प्रवृत रहेगी । The Licence shall remain in force till the 31st day of December 2027

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	80.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोसियम /Petroleum Class C in bulk	300.00 KL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	380.00 KL
कुल क्षमता /Total Capacity	380.00 KL

July 9, 2007

For Chief Controller of Explosives HQ, Nagpur

1). Amendment dated - 26/04/2022

अनुज्ञप्त परिसरों का विवरण और अवस्थान DESCRIPTION AND LOCATION OF THE LICENSED PREMISES

अनुज्ञप्त परिसर जिसकी विन्यास सीमाएं अन्य विशिष्ट्यां संलप्न अनुमोदित नक्सी में दिखाई गई हैं Plot No: S. No. 39/3, 315,MELAVANJORE VILLAGE, NAGORE POST-611002,KARAIKAL REGION,PUDUCHERRY UT, Melavanjore Village, TR. Pattinam Panchayat, Nagor, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 स्थान पर अवस्थित है तथा उसमें निम्नलिखित Two aboveground Petroleum Class B & one aboveground Petroleum Class C storage tanks together with connected facilities. समितित हैं |

The licensed premises, the layout, boundaries and other particulars of which are shown in the attached approved plan are situated at Plot No: S. No. 39/3, 315,MELAVANJORE VILLAGE, NAGORE POST-611002,KARAIKAL REGION,PUDUCHERRY UT, Melavanjore Village, TR. Pattinam Panchayat, Nagor, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 and consists of Two aboveground Petroleum Class B & one aboveground Petroleum Class C storage tanks together with connected facilities. together with connected facilities.

Note:-This is system generated document does not require

signature.





Chemplast Sanmar Limited

Karaikal Plant:
Melavanjore Village T R Pattinam Panchayat
Nagore 611 002 India
Tel + 91 4365 256 475/ 476
E-mail: csl@sanmargroup.com
www.chemplastsanmar.com
CIN L24230TN1985PLC011637

CSL/KKL/SAF-04/2025-2026 03rd September 2025

To,
The Inspector of Factories,
Kamaraj Complex,
Karaikal – 609 602.

Dear Sir,

Sub: Submitting the Report of Onsite Mock Drill.

We are herewith submitting Report of "Onsite Emergency - Mock Drill" based on the scenario Bush fire near the west side of the Scrap yard conducted on 29.08.2025

We hereby submitting the above said information for your kind perusal.

Thanking you and assuring our best cooperation at all time.

Yours truly,

For Chemplast Sanmar Limited

S.Mathivanan Factory Manager (Sr.Vice President - Operations)

dc.

LLY 3-9-25
DESTATCHER
Office of the Inspector of Factories
'erunthalaiver Kamarejar Administrative CompleNagore Road, Karaikal.

Regd Office: 9 Cathedral Road Chennal 600 086 India



Chemplast Sanmar Limited

Karaikal

Emergency preparedness-Mock Drill Report

1. Type of Drill: On Site Emergency Mock Drill

2. Date of Drill: 29.08.2025

3. Mock drill Started: 16:02 Hrs

Mock Drill Ended: 16:27 Hrs.

4. Assumed emergency scenario:

Bush fire near scrap yard west side

5. No. of Observers: 04

Internal Observers & their Locations:

Internal Observers and Locations	1.Mr.M. Mohan-Incident Site
	2.Mr.C. Krishnakumar–Safe assembly point 1
	3.Mr.Visvanathan.SEmergency control centre
	4.Mr. Kavi Anand- Plant Gate

6. External Observer details (ifany):

7. Objectives of the mock drill:

- · Observe the sequence of action.
- · Response time.
- · Role-play of individuals.
- Co-ordinate among various Co-ordinators.
- Shortcomings on recommendations for further improvements.



8. Description of Emergency Scenario:

S.No	Sequence of Activities	TimeHrs
1.	Bush Fire observed at the scrap yard west side at M/s Chemplast Sanmar, karaikal	16:00
2.	Immediately, this information passes through Emergency control centre in Chemplast Sanmar, karaikal by Works Main Controller and told to declare emergency	16:01
3.	Emergency declaration messages were communicated to the Emergency control center and the Control room Engineer activated the Emergency siren. Continuous announcement was made through the public announcement system by Emergency control room engineer briefing emergency scenario situation, emergency scenario site and wind direction for safe evacuation and nearby emergency assembly point to assemble.	16:02
4.	In the meantime, the nearby fire hydrant with hoses was activated to put off the fire	16:02
5.	Mock evacuation of the employees and contract workers were carried out.	16:03
6.	All contractors and employees assembled at the assembly point and Head count was checked which was matched with attendance.	16:10
7.	The Site Main Controller Mr. S Mathivanan, and Incident Controller, briefed the workers about emergency and how to handle the emergency situation.	16:15
8.	The fire responders mitigated the fire and was put off and was under control	16:23
9	The shelters were already listed as Admin, canteen, OHC, Mechanical workshop, Instrument workshop and contractor sheds.	16:26
10.	The "All clear signal" was declared by Works Main Controller byalong sirenfor60 seconds.	16:27
1	All returned back to their workspot.	16:28

9. HeadCountDetails:

Theheadcountwastallied.

TotalNo.ofpersonsassembledintheassemblypoints	153
No.ofpersonsretainedintherespectivesectionsfor Maintainingproduction	84

10. Observations&Recommendationsfromobservers:

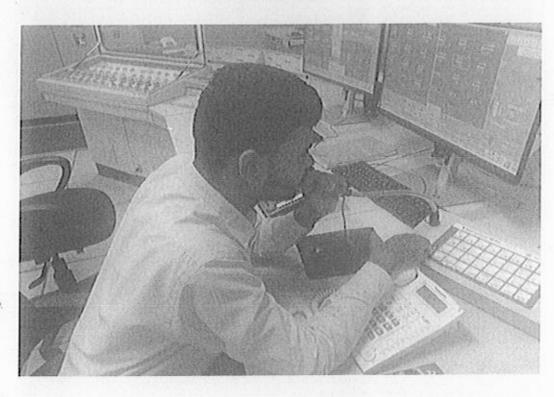
Positives:

- The fire responders quickly mitigated the fire scenario with fire resistant suits.
- Availability of required infrastructure & resources
- Clear Communication received from Emergency Control Center.
- The mock drill fire emergency notice board was displayed at the factory gate.

Area of improvement in the Incident location:

- New Emergency siren shall be fixed at the CPP I nearby area for improved audibility.
- New Public address system shall be fixed at Hydrogen bottling project area.
- The assembly point head count marking shall be repainted near canteen.

MockDrillPhotos





After receiving fire emergency communication from site main controller, immediately announced through public address system about the scenario.



The Emergency Siren was Activated at Emergency control centre



Factory gate closed and Emergency mock drill notice was displayed to outsiders

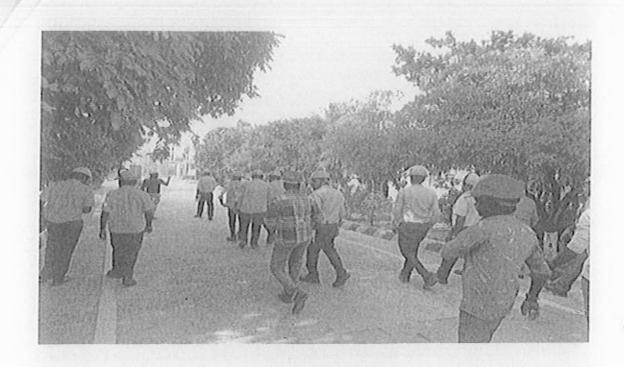


Water spraying with fire hose by fire responders was activated to control and put off the fire



Incident controller communicationg to the fire responders for mitigating the fire emergency situation





All wokers rushingtowards the Emergency assesmbly point



Evacuation was ensured at all areas





Gathering of employees and workers assembled at Safe Assembly Point



Head count was taken at assembly point by Emergency Response team





Works main controller Mr. S. Mathivanan(PlantHead) briefed how to handle the fire emergency among employees and workers and declared Call Off siren.



Post drill meeting chaired by the Plant Head







GOVERNMENT OF PUDUCHERRY DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT PUDUCHERRY POLLUTION CONTROL COMMITTEE



3rd Floor, Housing Board Complex, Anna Nagar, Puducherry - 605 005 Phone: (0413) 2201256 Fax: (0413) 2203494

Form 2 [See rule 6(2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

- Number of authorisation: HWM/1/2025/488628 and date of issue: 25/03/2025
- 2. Reference of application No.: 488628 and date: 09/01/2025
- The occupier of Chemplast sanmar limited is hereby granted an authorisation based on the enclosed signed inspection report for hazardous or other wastes or both on the premises situated at No.:315, Melavanjore Village, T.R. Pattinam Panchayat, Nagore Post-611002, Karaikal Region, Puducherry U.T.

Details of Authorisation

SN.	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I/33. Handling of hazardous chemicals and wastes	33.1 Empty barrels/containers/liners contaminated with hazardous chemicals/wastes	6 T/Annum	Generation, storage and disposal to authorized pre-processor/ utilizer.
2	Schedule I/16 Production of caustic soda and chlorine	16.3 Brine sludge	3000 T/Annum	Generation, storage and disposal to authorized secured landfill facility.
3	Schedule I/5 Industrial operations using mineral/synthetic oil as lubricant in hydraulic systems	5.2 Wastes or residues containing oil	2 T/Annum	Generation, storage and disposal to authorized pre-processor/ co-processor.
4	Schedule I/5 Industrial operations using mineral/synthetic oil as lubricant in hydraulic systems	5.1 Used or spent oil	35 T/Annum	Generation, storage and disposal to authorized recycler.

- 4 The authorisation shall be valid for a period of 12/03/2030
- 5 The authorisation is subject to the following general and specific conditions (Please specify any conditions that need to be imposed over and above general conditions, if any):

A. General conditions of authorisation:

- The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
 - The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
 - The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
 - Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
 - The person authorised shall implement Emergency Response Procedure (ERP) for which this
 authorisation 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.
 - The person authorised 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
 - It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
 - The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
 - 9. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
 - The hazardous and other waste which gets generated during recycling or reuse or recovery or preprocessing or utilisation of imported hazardous or other wastes shall be treated and disposed of as per specific conditions of authorisation.
 - 11. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
 - 12. An application for the renewal of an authorisation shall be made as laid down under these Rules.
 - 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.
 - 14. Annual return shall be filed by June 30th for the period ensuring 31st March of the year.

B. Specific conditions:

- The occupier/generator shall be responsible for safe and environmentally sound management of hazardous and other waste.
- The occupier shall follow the following steps for the management of hazardous and other wastes. (a)
 Prevention (b) minimization (c) reuse (d) recycling (e) recovery, utilisation including co-processing
 and (f) safe disposal.
- 3. The occupier shall store the hazardous and other wastes for a period not exceeding ninety days.
- The hazardous and other wastes shall be stored temporarily in an isolated area earmarked for the
 purpose within the occupiers premises (it shall not be accessible to rain water) till scientific disposal.
- The storage area shall be provided with impervious flooring with separate provision for individual category of waste and a sign of danger shall be placed at the storage site.
- The occupier handling hazardous or other wastes shall maintain daily records of such operations of generation, handling, storage and disposal as per Form 3.
- 7. The occupier handling hazardous or other wastes shall ensure that the hazardous and other wastes are packaged in a manner suitable for safe handling, storage and transport as per the guidelines issued by the Central Pollution Control Board from time to time.
- The labelling of package of hazardous or other wastes shall be done as per Form 8. The label shall be of non-washable material, weather proof and easily visible.
- The occupier shall provide the transporter with the relevant information in Form 9, regarding the
 hazardous nature of the wastes and measures to be taken in case of an emergency and shall label the
 hazardous and other wastes containers as per Form 8.

- 10. The authorisation for transport shall be obtained by either the sender or the receiver on whose behalf the transport is being arranged.
- 11. The transporter/sender of the hazardous and other wastes shall prepare and maintain manifest in Form 10. The unit shall ensure submission of green or grey copies of Manifest by the receiver to PPCC for every consignment.
- 12. Transportation of hazardous and other waste for final disposal to a facility existing in a state other than the state where the waste is generated, the sender shall obtain No Objection Certificate from the State Pollution Control Board of both the states.
- 13. Transportation of Hazardous and other waste for recycling, utilisation including co-processing or disposal through a State other than the States of origin and destination, the sender shall give prior intimation to the concerned State Pollution Control Board of the States of transit before handing over the wastes to the transporter.
- 14. The occupier or the operator, or the transporter shall immediately intimate PPCC through telephone, e-mail about the accident and subsequently send a report in Form- 11, where an accident occurs at the facility of the occupier handling hazardous or other wastes and operator of the disposal facility or during transportation.
- 15. The unit shall provide display board showing hazardous waste details as per the Honble Supreme Court directions.
- 16. Any increase in quantity of handling of hazardous and other wastes, any change in category of hazardous and other wastes and any change in method of handling operations shall be brought to the notice of the PPCC and fresh authorization shall be obtained.

C. Additional Specific conditions:

- (i) The unit shall update the online environmental display board at the entrance gate of the factory on daily basis.
- (ii) The unit shall comply with CPCB guidelines for storage of Incinerable hazardous waste.
- (iii) The unit shall label all the hazardous waste in the storage yard as per Form-8 in accordance to the rules.
- (iv) The unit shall maintain records in Form-3 on daily basis and file annual returns in Form-4 on or before 30th June of every year.
- (v) The unit shall expedite the disposal of the hazardous waste brine sludge through authorized secured landfill facility.
- (vi) The authorization is subject to the conditions mentioned above and also to such conditions as specified in the Hazardous and Other waste (Management & Transboundary Movement) Rules, 2016 as amended from time to time framed under the Environment (Protection) Act 1986.
- (vii) Puducherry Pollution Control Committee reserves the right to review impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization.

Digitally signed by NATARAJAN RAMESH NATARAJAN RAMESH NATARAJAN 82.06 +05'30'

25/03/2025 Date:

> Signature of Issuing Authority Designation and Seal



Point wise compliance status & actions taken on the Integrated Guidance Framework for Chemicals Safety in Respect of the Isolated Storages and Industries Covered Under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989

#	Guidelines	Compliance status
A. C	Guidelines for Industries and Isolated Storages:	
REP	ORTING	
1	An occupier (of an industry or isolated storage) shall identify the major accident hazards and shall take adequate steps to prevent such major accidents and to limit their consequences to persons and the environment and shall provide the persons working on the site with the information, training and equipment including antidotes necessary to ensure their safety	Complied. All possible major accidents hazards have been identified through various safety studies like QRA, HAZOP, Process Safety Audit, Hazardous Area Classification, Lightening Protection Study etc. All the emergency scenarios captured in emergency response plan comprising of mitigation procedures along with individual responsibilities of each function and accordingly periodic mock drills are conducted to improve the emergency response & its effectiveness Adequate training imparted to all operating personnel for handling and controlling such emergencies Necessary safety equipments are made available in plants for the mitigation of emergencies Well-equipped OHC facility and the Doctor along with supporting staff to cater the medical emergencies of the plant are available
2	Where a major accident occurs on a site or in a pipe line, the occupier shall within 48 hours notify the concerned authority as identified in Schedule 5 (of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended) of that accident, and furnish thereafter to the concerned authority a report relating to the accidents in Schedule 6 (of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (as amended)). However, the concerned authorities, local crisis group, District emergency authorities etc. have to be informed by the occupier as early as possible	Agree to comply in case any major accident occurred
3	The occupier shall not undertake any industrial activity or isolated storage unless he has been granted an approval for undertaking such an activity by the concerned authorities and has submitted a written report to the concerned	Complied. We always get prior approval from concerned authorities for any modification undertaken in our existing



	authority containing the particulars specified in Schedule 7 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended. In case of an activity in which subsequently there is or is liable to be a threshold quantity or more of an additional hazardous chemical shall be deemed to be a different activity and the occupier has to take a separate approval for undertaking such activity	the threshold quantity for a chemical as per MSIHC Rules, we will ensure that a separate approval will be obtained from
4	The occupier shall furnish a further report to the concerned authorities, in case the changes to the threshold quantity of hazardous chemicals are made	
5	An occupier shall not undertake any industrial activity or isolated storage to which the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (as amended) applies, unless he has prepared a safety report on that industrial activity containing the information specified in Schedule 8 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (as amended) and has sent a copy of that report to the concerned authority at least ninety days before commencing that activity	isolated storage, which is attracted by MSIHC Rules , the safety report will be sent to the concerned authority at least 90 days prior to the commencing that activity
6	The occupier of both the new and the existing industrial activities or isolated storage shall carry out an independent safety audit of the respective industrial activities with the help of an expert, not associated with such industrial activities. The occupier shall forward a copy of the auditor's report along with his comments to the concerned authorities within 30 days after the completion of such audit	Complied. • External safety audit is being conducted by a Third-Party Auditor approved by Ministry of Labour and Employment of India • Auditor who is appointed for audit is not associated with our industrial activities as being an independent auditor and auditor's report with compliance status are being submitted to concerned authorities within time frame
7	The occupier shall update the safety audit report once a year by conducting a fresh safety audit and forward a copy of it with his comments to the concerned authorities	Complied.
8	The occupier, within 30 days of the completion of the safety audit, shall send a report to the Chief Inspector of Factories with respect to the implementation of the audit recommendations	PERSONAL PROPERTY AND ASSESSMENT OF THE PERSONAL PROPERTY AND ASSESSMENT ASSESSMENT OF THE PERSONAL PROPERTY AND ASSESSMENT OF THE PERSONAL PROPERTY ASSESSMENT OF THE PERSONA
9	The occupier shall not make any modification to the industrial activity or isolated storage to which that safety report relates which could materially affect the particulars in that report, unless he has made a further report to take account of those modifications and has sent a copy of that	Complied. We never do any modification of the industrial activity or isolated storage without getting prior approval from concerned authorities
		S SAN



	report to the concerned authorities at least 90 days before making those modifications	
10	Where an occupier has made a safety report and that industrial activity or isolated storage is continuing, the occupier shall within three years of the date of the last such report, make a further report which shall have regard in particular to new technical knowledge which has affected the particulars in the previous report relating to safety and hazard assessment and shall within 30 days send a copy of the report to the concerned authority	
11	For the purpose of enabling the concerned authority to prepare the off-site emergency plan, the occupier shall provide the concerned authority with such information relating to the industrial activity or isolated storage under his control as the concerned authority may require, including the nature, extent and likely effects off-site of possible major accidents	Agree to comply. We have prepared Off Site Emergency Plan and same have been submitted to concerned authorities
12	The occupier of an industry or isolated storage shall take appropriate steps to inform persons outside the site either directly or through District Emergency Authority who are likely to be in an area which may be affected by a major accident about the nature of the major accident hazard and the safety measures and the "Do's' and 'Don'ts' which should be adopted in the event of a major accident. The occupier of a new industry or isolated storage shall take these steps, before that activity is commenced	We have conducted several awareness programmes to nearby communities on "Do's' and 'Don'ts" during industrial emergency as well as during the off-site drills
13	The industries/isolated storages shall update the comprehensive safety audit, on-site emergency plans and risk analysis reports annually and ensure that the reports are furnished to the concerned authorities	We wish to inform your good office that the Onsite Emergency Plan is revised and submitted periodically as & when required
14	The industry or isolated storage shall conduct comprehensive hazard identification and risk assessment (HIRA) to identify the non-compliances and take corrective actions for the non-compliances identified. Emergency plans shall be established to deal with leakages/accidents. The safety & hazard audit should identify the control measures necessary to be taken during an emergency	Hazard Identification and Risk Assessment (HIRA) is available to identify the non-compliances and necessary corrective actions are taken On & Off-site Emergency Plans are available to deal with leakages/accidents
15	A detailed study on the risk assessment and disaster management shall be carried out by the industry/isolated storage. Hazard identification and evaluation in a local community, preparation of standard operating procedures for accident prevention, preparedness and response, onsite emergency plans etc. have to be reviewed at least once in a year	All possible major risks & hazards have been identified through various studies like QRA, HAZOP, Process Safety Audit, Hazardous Area Classification, Lightening Protection Study etc. All the emergency scenarios are captured in emergency response plans and periodic mock drills are conducted to improve the emergency response Adequate training imparted to all local communities & operating personal for



		handling such emergencies
16	In the industries/isolated storages where gas leakages are suspected, an emergency plan to vent out/neutralize the gases safely should be prepared	An emergency plan to vent out/ neutralize the gases safely & the procedures derived for each emergency and complied
17	All industries and isolated storages should have mitigation plans for spillages/leakages of hazardous chemicals, fires, explosion or any other accident	Mitigation plans for spillages/leakages of hazardous chemicals, fires, explosions or any other accident are available in our On and Off-Site emergency Plans along with mitigation and practiced & familiarized with mock drills periodically.
18	Standard Operating Procedure (SOP) for the steps to be taken during emergency situations/accidents shall be prepared by all industrial activities/isolated storages that are handling hazardous chemicals	SOPs available for emergency situations & accidents detailing on the steps to be followed during emergency situations/ accidents
-	TING	
19	The pressure test and leak test must be ensured after replacement of valves, pipes, joints etc. as per the original equipment manufacturer (OEM) manual or as per standard established procedure	Complied. Whenever replacement of valves, pipes, joints etc. are done, pressure test & leak test are carried out before installation according to the established system procedure
20	Check valves, relief valves should be installed at appropriate locations. Flow meters, sensors, measuring devices have to be regularly calibrated. Vents from relief valves shall be directed to a safe place	Complied. • Check Valves and Safety Relief Valves are installed in appropriate locations • Measuring devices are calibrated at defined interval and redundancy for measuring devices are also ensured
21	Seals, glands and gaskets shall be regularly inspected, without dismantling. Leak detectors should be provided for all piping, valves, seals, flanges, and other pertinent equipment	Complied. Mechanical Integrity programme available and LDAR (Leak detection and Repair) program is followed for the fugitive VOC emission as per the protocol
22	All hazardous chemicals carrying piping should be periodically inspected for failed insulation/vapour barrier, rust and corrosion. Damaged and deteriorated piping/equipment should be replaced	Complied. Mechanical Integrity programme available for periodic inspection of insulation, rust and corrosion. In case of any damage/deterioration the pipe/equipment is replaced
23	Operation and process control systems like Supervisory Control and Data Acquisition (SCADA) and Leak Detection and Repair (LDAR) systems should be adopted by the major accident hazard installations	Complied. • SCADA available for operation and process control devices • LDAR programme carried out by third party for hazardous installations
24	The safety measures including valve regulated systems shall be regularly checked and the concerned workers involved in the activity shall be properly trained	Complied. Inspection programme available for valve regulated systems and the



		workers concerned involved in activities are trained periodically
25	Periodic inspection of equipment and machineries w.r.t. safety aspects should be done	Complied. Periodic inspection available for equipments and machineries w.r.t safety aspects of machine guarding, equipment earthing etc.
26	Portable gas masks should be kept at critical locations for use in any emergency	Complied. Portable half face and full-face cartridge type organic-gas masks provided to all employees working in toxic gas area and spare portable gas masks kept in strategic locations like Emergency Control Center, OHC etc.
27	Material Safety Data Sheets of raw materials & products should be made available to all the concerned personnel	Complied. MSDS of raw materials & products available in Shop floor, Laboratory, Stores, OHC and Emergency Control Center & updated periodically
28	The design of storage tanks, pressure vessels etc. should be as per applicable standards. The material of the storage tanks, pressure vessels etc. should be of adequate strength and chemically inert for the chemicals to be stored. The inspection of storage tanks, pressure vessels etc. should be as per standard protocols	Complied. The design of storage tanks, pressure vessels are done as per standards and inspection is carried out by competent person authorized by Chief Inspector of Factories and Boilers, Puducherry & Petroleum & Explosives Safety Organization
29	All the vessels should be examined periodically by a competent person under the Factory Act/applicable extant laws	Complied. All the pressure vessels examination (External, Hydro Test, Ultrasonic Thickness Test) are carried out by competent person authorized by Chief Inspector of Factories and Boilers, Puducherry and inspection reports are submitted in Form 8 Inspector of Factory
30	Blanketing of tanks for fire protection of volatile/flammable chemicals should be considered	Nitrogen blanketing is done on the required areas, vulnerable for fire risk.
31	Free Fall of any flammable material in the vessel has to be avoided. All solvents and flammable material storage tanks should be at a safe distance from the Process plant and required quantity of material should be charged in reactor through appropriate safe mode	Complied. Flammable material storage tanks are in safe distance from the process area
32	Earth connection should be provided to all solvent handling equipment, pipelines, reactors, vessels etc. for protection from electric current/ static electricity	Complied. Earth connection provided to all the equipments, pipelines, reactors, vessels for protection from electric current/ static electricity
33	Separate safety manual should be prepared for each equipment along with the emergency management plan	Complied. Safety manual available for equipments



		with emergency management plan
34	Periodic testing of firefighting equipment should be conducted	In-house and third-party testing/inspections are carried out for firefighting equipments
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35	Mock drills must be conducted regularly at every six months by the industries/isolated storages in controlled environment on actions to be taken during accidents, gas leakage, failure of critical process parameters etc.	Complied. Onsite emergency mock drill are conducted once a three months covering various emergency scenarios
36	It shall be ensured that the chemical storage tanks should be appropriately located so that adequate space to take action during emergency situation is available	Complied. Adequate space available for all the chemical storage tanks
37	A clear documented emergency procedure should be laid down which details the precise duties of all staff and arrangements for evacuation, rescue, first aid etc. during an emergency	Complied. Onsite emergency procedures are available with duties of all staffs and arrangements available for evacuation, rescue, first aid etc. during emergency
38	All pipework containing hazardous chemicals shall be identified by colour coding or labelling (as per standards notified by Bureau of Indian Standards) and shall be protected to prevent corrosion/damage. The practice to identify the parts of the system that contain gas or liquid and the direction of flow should be followed	Complied. Colour code and labeling available as per IS standard for hazardous chemicals and direction flow marking is also done
39	The industry or isolated storage shall install sensors with alarm system for detecting leakage of hazardous chemicals. Emergency ventilation, electricity tripping system to stop the process, sprinkling system to contain the leaked hazardous chemicals/gases etc. may be interlinked with the sensors for taking a prompt action in case of leakage/emergency	Complied. Sensors with alarm system installed for hazardous chemicals (like Chlorine, VOC) and deluge sprinkler system installed for flammable storage area
40	Suitable gas sensors and alarm system should be installed in the industrial unit/isolated storages at appropriate locations where emission of gas is suspected so that any leaked gas is detected and the employees are immediately alerted. In sensitive areas of the unit where gas leakages are suspected, the unit shall work out an emergency prepared plan to neutralize/vent out the gases safely	Complied. Sensors with alarm system installed hazardous chemicals and connected to control room to alert employees
41	The industries/isolated storages should install automatic alarming system to alert its personnel as well as surrounding localities simultaneously in case of emergency situation and likelihood of emergency situation if any process parameter goes out of control	Complied. Automatic alarming system available to alert in case of emergency related to process
42	There should be auto alarm system to alert the employees in case of any deviations noticed in process parameter that may cause emergency	Complied. Automatic alarming system available for alerting the employees to take appropriate action
43	Only fully trained and qualified operators shall be permitted to operate the industrial processes involving hazardous chemicals. Training to all employees on Standard Operating Procedures, production process, safety aspects etc. should be provided. Refresher trainings should be conducted at	Complied. • Qualified (Master of Science in Chemistry) and trained operators are only allowed to operate industrial processes



	least every year regarding safety and emergency preparedness aspects associated with the industrial process/isolated storage. The employees shall be given hands on experience with the product process under the supervision of senior employees. The industries/isolated storages only after ensuring that adequate training is imparted to its employees should engage the employees for	SOP, Process and Safety training conducted to employees Yearly refresher training for emergency responses also given to employees Mock drills are being carried out periodically
44	Independent works The industries and isolated storages should impart regular training to the staff to make them aware about process details, process functionalities. The employees should be trained to deal with emergencies arising out of leakage, abnormal temperature & pressure, increased emissions, pump failures, failure of air pollution control devices or effluent treatment plant, shock loads or any other accidents likely to occur. Overall the industries and isolated storages should be prepared for emergency response readiness & effectiveness in terms of major & minor accidents	Complied. Regular awareness training given to staff about process detail and its functionalities Emergency response training is conducted by third party
45	Any non-operational industry/isolated storage shall carry out proper risk study and safety audit before resuming the operations	Various risk studies and safety audits conducted, and all the recommendations are complied
46	Hazard and operability study must be carried out strictly and regularly by the industries and isolated storages. The concerned personnel should be made aware of the hazard and safety aspects associated with the process and material handled by them	Complied. HAZOP (Hazard and Operability) study carried out at regular interval and staffs are made aware of hazard & safety aspects associated with the process
47	The industry/isolated storage should procure chemicals from authorized dealers only. The spent solvents shall be procured from only those industries/solvent recyclers that are authorized by respective State Pollution Control Boards (SPCBs)/ Pollution Control Committees (PCCs)	Chemicals are procured from authorized dealers only Spent solvents are not used in our industry at all
48	The industry/isolated storage shall provide essential Personnel Protective Equipment (PPE) to all the concerned employees and make it mandatory that the employees have to wear PPE during working hours	Complied. Mandatory PPE (Safety helmet, Safety shoe and Goggles) and Job specific PPE (Face shield, Gloves, Full body aprons) provided to all the employees
49	Occupational Health surveillance i.e., periodical health check-up of the employees should be conducted by the industries/ isolated storage	Complied. Periodic health check-up conducted to all the employees
50	The industries/isolated storages have to ensure self- compliance regarding recruiting competent staff, imparting Industrial, Environmental and Safety training to the staff, conducting safety audit, onsite emergency plans with record maintenance and information to SPCB/PCCs/Concerned Authorities	Complied. Self-compliance audit conducted internally, and information shared to the concerned authorities for taking action towards improvement
51	The distancing criteria for storage of hazardous chemicals have to be followed as per extant safety guidelines/rules. The chemicals should be stored as per compatibility and separate area for flammable, corrosive, explosive and toxic chemicals should be earmarked	Complied. Hazardous chemicals storage area designed as per chemical compatibility matrix



52	The labelling of hazardous chemical storing containers shall be as per extant rules. The concerned employees should be made aware of the risks associated with the stored hazardous chemicals and appropriate precautions that need to be taken	Complied. NFPA labeling made available for all chemical storage containers
53	To contain any spillage or leakage of hazardous chemicals or any uncontrolled reaction that may cause any emergency or accident, the industries/isolated storages should have sufficient stock of neutralizing chemicals, absorbents, reaction quenchers with proper equipment and trained manpower	Complied. • Adequate neutralizing chemicals are available for quenching spill or leak of hazardous chemicals • Well trained manpower available to contain the spill or leak
54	Emergency ambulance services should be arranged in the industrial zones along with experienced doctors and paramedic staff	Complied. We wish to inform your good office that we have dedicated ambulance and fully equipped OHC with experienced doctor and paramedic staff in our factory
55	Safety in operation greatly depends on proper commissioning of an industry/isolated storage and hence utmost care should be taken to monitor every aspect during erection and maintenance schedules or other areas which require proper planning	Agree to comply for every aspect of erection and maintenance schedules
56	The industries/isolated storages shall ensure that their premises should be constructed in accordance with the local government regulations	Complied. All our constructions are in accordance with the local government regulation
57	A control room to deal with the emergencies should be commissioned by the industries/isolated storages. A quick response team of responsible officers should be constituted having duly assigned duties to be executed during emergencies	Complied. Control room available to deal with emergencies Response team is available as per our On-Site emergency plan
58	The industry/isolated storage should conduct public awareness programmes in the surrounding localities about do's & don'ts during emergency situations on annual basis	Several industrial emergency awareness program has been conducted to the surrounding communities
59	'Mutual Aid Scheme' among industries to meet required response measures during chemical emergencies should be adopted	Complied. Our industry has signed 'Mutual Aid Agreement' with nearby industries
50	Emergency contact numbers should be readily available at the isolated storages or industrial installations similar to 'Crisis Alert System' or Red Book	Emergency contact numbers of displays is available in predominant locations of our factory
51	Placing/indicating hazard signs at appropriate places in the isolated storage or industry or outside the shop floor (within the premises) should be done	Cautionary notices in English and local languages are displayed in appropriate locations of our factory
52	Increased automation that avoids physical handling of dangerous chemicals and substances should be brought into practice	Complied. In our plant maximum possible areas are fully automated and there is very few manual operations in our activities
53	The industry/isolated storage should have proper firefighting arrangements in accordance with The Factories Act, 1948/applicable extant laws	In our factory we have micro-processor based automatic fire fighting facility in accordance with applicable rules/laws
64	All emergency valves and switches and emergency handling	Complied.

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	switches and emergency handling facilities are located in easily accessible areas
Safety audit reports shall be made online for public	Agree to comply by accessing public through our website
To ensure safety during operation/handling/storage of hazardous chemicals, the industries/isolated storages wherever and as applicable, shall obtain requisite clearances from The Chief Inspector, Factories and Boilers/Department of explosives/Fire Department etc. without fail	pertaining to safety during operation/ handling/storage of hazardous chemicals and its hazards have been informed to The Chief Inspector, Factories and Boilers/Department of Explosives/Fire Department etc. and necessary clearance received
The industries isolated storages shall ensure that the effluent generated during any accident because of firefighting/decontamination activities etc. should be disposed in scientific manner after proper treatment. The hazardous wastes generated after any accident must be disposed in accordance with the extant rules	
Occupiers of storage installations like warehouses/tank farms are required to prepare an On-Site Emergency Plan and make available information regarding any possible off-site consequences to the District Collector to enable him to include the same in the Off Site Emergency Plan for the district or the particular area	Possible emergencies that could occur in our storage installations like warehouses/tank farms are identified and same as incorporated in onsite emergency plan/Offsite emergency plan. List of emergencies and plans to meet them and same has already submitted to district crisis group authorities
In order to avoid accidents, the following measures may be taken while establishing a warehouse/tank-farm. These should also be carried out in existing installations to enhance safety: i. Hazardous chemical storages should be located away from densely populated areas from drinking water sources, water bodies or from areas liable to flooding ii. The location should have easy access for transport and emergency services iii. Adequate emergency requirements like water for firefighting, drainage to prevent ground water contamination, standby source of electricity etc. should be provided iv. The layout of warehouses should be designed in accordance with nature of materials to be stored. The construction material should be non-flammable v. Floors should be impermeable to liquids and should be designed for easy cleaning vi. Drains should not be connected directly to water ways or	years now and our plant has designed considering all said Environment Health & Safety requirements. Company has been certified for ISO 45000 towards Safety & Occupational health & ISO 14000 for Environmental Management
	(8)

public sewers. The drains should be connected to an interceptor pit vii. Proper embankments to contain any accidental spillage should be provided for all hazardous materials storages viii. Loading and unloading operations are to be done with utmost care ix. Procedure for receipt, despatch and transport should be clearly laid down x. Details of hazardous chemicals, access and escape routes, available emergency & firefighting equipment should be available xi. In addition to a storage plan, a safe operation of a storage facility should have planning for safety training, personal protective clothing and equipment, spillages and leaking containers, waste disposal, first aid, fire detection and protection equipment, environment protection, proper on site emergency plan etc. 70 Wherever applicable, the industries or the isolated storages All activities related to our industry are shall invariably comply with the Manufacture, Storage and complying with the MSIHC Rules, 1989 (as amended), The Major Accident Import of Hazardous Chemical Rules, 1989 (as amended), Hazard Control Rules, 1997, The The Major Accident Hazard Control Rules, 1997, The Factories Act, any other applicable rules or guidelines issued Factories Act, and all other applicable rules or guidelines issued by the by the respective Government of State/Union Territory, The Ministry of Labour & Employment, Petroleum and Explosive respective Government of State/Union Safety Organization, Oil Industry Safety Directorate etc. Territory, The Ministry of Labour & Employment, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate etc. B. Guidelines on the On Site Emergency Plans (for industries and isolated storages): The occupier of an industrial activity/isolated storage shall Complied. prepare and keep up-to-date an on-site emergency plan On Site Emergency Plan is periodically containing details specified in Schedule 11 of the reviewed and required details are Manufacture, Storage and Import of Hazardous Chemical mentioned appropriately Rules, 1989 (as amended) detailing how major accidents will be dealt with on the site on which the industrial activity is carried on and that plan shall include the name of the person who is responsible for safety on the site and the names of those who are authorized to take action in accordance with the plan in case of an emergency The occupier shall ensure that the emergency plan prepared | If any modification made in our factory, takes into account any modification made in the industrial emergency preparedness plan is reviewed and same is communicated activity/isolated storage and that every person on the site through a proper training to all workers who is affected by the plan is informed of its relevant in the factory provisions The occupier shall prepare the emergency plan in the case of No new industrial activity or isolated storage were done recently. However, a new industrial activity or isolated storage, before that when there is any new industrial activity activity is commenced or isolated storage, emergency preparedness plan will be reviewed



- The occupier shall conduct a mock drill of the on-site | We wish to inform your good office that emergency plan every six months and a detailed report of the Mock Drill is conducted once in the mock drill conducted shall be made immediately three months and its outcomes are available to the concerned authorities as and when demanded
 - submitted to Inspector of Factories, Karaikal
 - With every change or modification made in a factory, operation or process, the on-site emergency plan may have to be modified and updated to keep it meaningful and effective.
- · On Site Emergency Plan is reviewed during any modification in factory and for any changes in process/operation

An on-site emergency plan should contain the following key

 During revision of our Onsite Emergency Plan, all said key elements are captured

- i. basis of the plan and hazard analysis
- ii. accident prevention procedure/measures
- iii. accident/emergency response procedure/measures and
- iv. recovery procedure

Proper planning by industries/isolated storages helps in reducing the

chances of accidents. For proper planning, the following needs to be

considered:

- i. risk associated with the process technology
- ii. safety measures
- iii, siting and layout of industry/isolated storage
- iv. emergency preparedness and
- v. compliance with the regulatory requirements

Assessing the hazard potential of an installation is the first step in planning for emergencies. Preliminary Hazard Analysis which comprises hazard identification and vulnerability analysis should always be carried out at the conceptual stage for all installations including small and medium installation. However, Major Accident Hazard (MAH) installations, both existing and proposed ones, should carry out a risk analysis.

Hazard Analysis:

Hazard analysis is a critical component in planning for emergencies. To

analyse the safety of a major installation as well as its potential hazards, a

hazard analysis should be carried out covering the following areas:

- i. The toxic, reactive, explosive or flammable substance in the installation
- that constitute a major hazard
- ii. The failures or errors that may cause abnormal conditions leading to a

major accident

iii. The consequences of a major accident for the workers, people living or



working outside the installation and the environment iv. Preventive measures for accidents v. Mitigation of the consequences of an accident Vulnerability Analysis: Considering the maximum loss scenario e.g. catastrophic vessel rupture, the occupier may estimate the vulnerable zone or the zones which will be affected by the release of hazardous chemicals. It should be borne in mind that every effort should be made to confine the vulnerable zone within the factory premises. In order to achieve this, the following could be adopted: i. Reduce the quantity of hazardous substances stored ii. Split the hazardous storages into number of smaller ones iii. Isolate the storages that might lead to cascading effect iv. Substitute extremely hazardous substances with less hazardous substance Risk Analysis: Risk analysis can provide a relative measure of the likelihood and severity of various possible hazardous events and enable the emergency plan to focus on the greatest potential risks. Risk analysis involves an estimate of the probability or likelihood that an event will occur E. Guidelines on Safety Audit: The safety audits should be conducted by the competent Complied. External safety audit is conducted by agency to be accredited by an Accreditation Board to be a third-party auditor approved by constituted by the Ministry of Labour and Employment, Ministry of Labour and Employment of Government of India in this behalf and in absence of such Accreditation Board by a competent agency approved by India or by a competent agency approved by Chief Inspector of Chief inspector of Factories Factories The qualifications and experience of safety auditor should be We wish to inform your good office that the safety auditor qualifications and as per extant rules experience is followed as mentioned in rules The safety auditor carrying out the safety audit under Rule Agree to comply 10 of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (MSIHC Rules, 1989) shall bring out the status of compliance by the occupier in his safety audit report in addition to the compliance of provisions of the MSIHC Rules, 1989 (as amended from time to time) and the state CIMAH Rules. A copy of the safety audit report to be forwarded by the safety auditor to the concerned authority as identified under schedule 5 of the MSIHC Rules, 1989 Complied. The audit should be carried out as per IS 14489:2018 - Code External safety audit is carried out as of Practice on Occupational Safety & Health Audit (as per IS 14489:2018 - Code of Practice on amended time to time) Occupational Safety & Health Audit only The broad areas to be covered in the Safety Audit should be: All the scopes said in the rules are i. Occupational Health and Safety Management captured in our external safety audit



ii. Physical, Mechanical and Electrical Hazards and their Control Measures iii. Chemical Hazards and their Control Measures iv. Fire and Explosion Hazard and their Control Measures v. Industrial Hygiene/Occupational Health vi. Accident/Incident Reporting, Investigation and Analysis vii. Emergency Preparedness (On-Site/Off Site) viii. Safety Inspection	
The Objectives of Safety Audit should be: i. To examine the existing procedures, system and control measures for hazards ii. To assess the adequacy of hazard identification iii. To identify potential hazards not covered by the existing safety systems, procedures and practices iv. To identify the adequacy of the control measures put in place by the occupier v. To bring out any deviation from the set procedures and statutory noncompliance vi. To recommend improvements for better effectiveness of the existing safety system, procedures & practices and also other measures of hazards control vii. To recommend system, procedure and control measures for identified hazards viii. To study compliance with statutory provisions and relevant codes of practice and recommend actions to be taken, wherever there is noncompliance ix. To identify the compliance with the provisions under these guidelines	Complied. All the Objectives of the Safety Audit is full filled in our external safety audit