

Chemplast Sanmar Limited

Melavanjore Village T R Pattinam Panchayat

Karaikal Plant:

Nagore 611 002 India

Tel + 91 4365 256 475/ 476

CSL/KKL/EN/MOEF&CC/2024/NOV/400 11 NOV 2024 PVC Division

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 of the Environmental Clearance (EC) given by Ministry of Environment, Forest and Climate Change (MoEF&CC) -reg.

<u>Reference:</u> 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 enclosed compliance status report to the conditions contained in the MoEF&CC's EC "60 TPD Chlor-Alkali Plant at Melavanjore - Karaikal, Puducherry" for the period from APRIL 2024 to SEPTEMBER 2024.

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
111	Gaseous (CI2,SO2,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 Cl2, SO2, Nox etc. and particulate emission data during the compliance period (APR 24 to SEP 24) 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 are based upon the recommendations made by the Puducherry Pollution Control Committee (PPCC). These reports are being submitted to PPCC on regular basis.
	Stack emissions should also be regularly monitored by installing stack monitoring devices in consultation with the State Pollution Control Board	Stack monitoring devices are fixed in our Boiler & Process stack and is 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 & Stack emissions sensors are connected to the PPCC/CPCB servers via CARE Air Center and data are transmitted regularly. PPCC also carrying out the monitoring regularly.
		-Environment monitoring data during the compliance period (APR 24 to SEP 24) is attached as Annexure 3
٧	Fugitive emissions should be controlled, regularly monitored and data recorded	Complied. Fugitive emission of Chlorine is monitored through online sensors and data are recorded.
	Chlorine sensors should be installed in the chlorine storage area at lower level between the tanks	Chlorine sensors are installed at strategic 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 24 to SEP 24) 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 ETP and treated.
	Recycling and reuse of the treated waste water should be maximized to the extent possible	The treated trade effluent is fully recycled and reused in our Chlor-Alkali process itself. Company has achieved Zero Liquid Discharge status.
		-Analysis report of reject water during the compliance period (APR 24 to SEP 24) is attached as Annexure 5
vii	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 is been done and reported to PPCC.
	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 adopted for all our machines to reduce noise in the

		design phase itself.
		-Noise survey report during th compliance period (APR 24 to SEP 24) 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	Occupational health surveillance is being
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 using native trees. We have around 11,300 numbers of trees in the area covering 12.5 Acres. Final treated sewage water is used for developing the green belt. -Photographs of green belt is attached 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	THE PARTY OF THE P
	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 Organisation (PESO) and Inspector of Factories (IF) and renewed from time to time for pressure vessels and storage tanks. -Latest PESO approvals for storage tanks
	Efforts should be made involving other industries operating in the area for development of facilities to combat emergency situation that may arise in case of an accident	are attached as Annexure 9 MOU available with nearby industries to combat emergency situation that may arise in case of an accident. Regular offsite mock drills also conducted in coordination with Government officials including the District Administration. -Sample mock drill report is attached as Annexure 10 CANA

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 is been done as per the Authorization issued by PPCC (by the requirements of Hazardous 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 as amended in October, 1994'. Point wise compliance status and action taken report submitted to PPCC regularly. -Copy of compliance report is attached as 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 a qualified/experienced persons (9 members team) reporting to the Plant Head. Our Laboratory is having the facilities towards the environmental samples analysis like pH Meter, Conductivity Meter, Spectrophotometer, Gas Chromatograph (organic analysis), Nephelometric/Turbidimetric Analyser 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 with a qualified/experienced person is available, reporting directly to the Plant Head & Corporate Environment Team
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 every year. All the expenses are recorded in advanced accounting system (SAP) of the company. Total environmental protection expenditures and investments FY 2023-24 was around Rs. 3.62 Crores which includes O&M contract, Green belt development, Environment monitoring, Waste management & disposal etc.
xvii	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 report is regularly submitted to the Integrated Regional WANK

	Regional Office of the Ministry at Bangalore	Office of MoEF&CC, Chennai and PPCC. Latest Half Yearly Compliance Report for the period October 2023 to March 2024 was submitted to the authorities vide Letter No.: CSL/KKL/EN/ MOEF&CC/2024/ MAY/339 dated 27 MAY 2024
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	Agree to comply

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 ORDER (TO OPERATE & RENEWAL)

- Notwithstanding anything contained in any other Laws, Rules and Notifications, this Consent (To Operate & Renewal) Order is purely given from the pollution angle
- II. Consent is valid upto: 31-03-2024

III. Products permitted and their Production Capacities:

S. No.	Product permitted to be manufactured	Production Capacity permitted	Unit
(1)	Caustic Soda (Including Caustic Soda Flakes - 19162.5 TPA)	54750.0	TPA
(2)	Chlorine Gas	48181.0	TPA
(3)	Hydrogen Gas	1387.0	TPA
(4)	Hydrochloric Acid	16425.0	TPA
(5)	Sodium Hypo Chlorite	10950.0	TPA
(6)	Ethylene di chloride	84000.0	TPA
(7)	Natural Gas Based Power Generation (with standby engine)		MW

IV. (i) Size: Large (ii) Category: Red (iii) Location: Industrial (iv) Area: 76 Acres

Air Consent Order (To Operate & Renewal)

No. PPCC/CTOR/AIR/TRP/KKL/JE/2019/851 dated 20 NOV 2019

#	Conditions specified in Consent Order	Compliance status
٧	Specific Conditions	
1	No other products other than specified above, along with the respective permitted production capacities, vide Section III of this Consent Order, shall be manufactured, without prior consent of this Committee	specified above are only
2	For Brine Purification Process: Sludge from the Brine Purification Process, viz., primary purification and secondary purification, shall be disposed, in Secured Land Fills (SLF's), provided with proper inner HDPE liners, as per the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Amendment, Rules, 2019, as applicable	Complied, sludge from the Brine Purification Process is disposed to a Common Treatment, Storage & Disposal Facility (TSDF)
3	For Caustic Soda Lye Manufacturing: (a) The loading and transportation of the Caustic Soda Lye, to and through the tankers shall be done without any spillage in and around the premises of the unit. Spillages, if any, shall be cleaned appropriately, and the same shall be reused into the process, as applicable	(a) Caustic Soda lye loading is done through auto loading system with interlocking arrangements and the chance of spillages are very minimal



	(b) Ambient Air Quality Monitoring and Stack Monitoring shall be conducted to detect ambient and stack emission status periodically. The analysis report shall be entered in a Register and copy of the Register shall be submitted to the Committee during renewal of Consent Order	(b) Monthly environmental monitoring is been done through NABL/MoEF&CC approved laboratory and reports are submitted to your good office regularly
4	For Caustic Soda Flakes Manufacturing: (a) 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 (b) The emission arising from the above combustion of Hydrogen Gas shall be disposed off through a Stack (No. 1) of height, at least 46.0 meters from the ground level	(a) Complied, fuel used for Caustic Soda Flakes production is Hydrogen Gas only and its consumption is within the limits (b) Complied, emission is disposed through Stack (No. 1)
5	For Hydrochloric Acid (HCI) Manufacturing (Stack MOC: FRP; Forced Draft): (a) The emission arising from the HCI Tower shall be let out through stacks (No. 2) of heights 22.5 meters from ground level, respectively (b) The Chlorine and Acid Mist (HCI Mist) Concentration from the HCI Tower (Stack No. 2) shall not exceed 15 and 35 mg/Nm³ respectively. (EPA Notification (G.S.R. 913(E), dated 24.10.21989))	(a) Complied, emission is let out through Stack (No. 2) (b) The Chlorine and Acid Mist (HCI Mist) Concentration are within the prescribed limits
6	For Sodium Hypochlorite Manufacturing (Stack MOC: FRP; Forced Draft): (a) The waste chlorine gas absorption system, viz., Multistage (3 stage) Caustic Wet Scrubber and the Acid Mist absorption system, viz., De mineralized Water Scrubber attached to the Caustic Soda Plant shall be operated at all times (b) Separate Energy Meter provided for the above said Air Pollution Control System shall be operated regularly and the readings of the same shall be recorded in a Log Book, which shall be produced, as an when called for, by the inspecting officials of this committee, at any point of time (c) The emission arising from the Hypo Tower shall be let out through stacks (No. 3) of heights 15 meters from ground level, respectively (d) The Chlorine and Acid Mist (HCl Mist) Concentration from the Hypo Tower (Stack No. 3), shall not exceed 15 and 35 mg/Nm³ respectively. (EPA Notification [G.S.R. 913(E), dated 24.10.1989])	absorption system attached to

7 For Ethylene di Chloride Manufacturing:

- (a) The Ethylene Gas (C_2H_4) shall be stored with utmost safely and precautions, as per the provisions of Acts and Rules, prevailing till date, as applicable
- (b) The Vent gases from Ethylene Storage Tank and System form Maintenance Operations of Cryogenic conditions shall e properly burnt using Smokeless Flare provided with the same
- (c) Adequate number of Ethylene Gas (C_2H_4) Sensors shall be provided around the Ethylene Gas (C_2H_4) Storage tank and Ethylene-Di-Chloride ($C_2H_4Cl_2$) plant and the same shall be closely monitored, to prevent any fire or explosion hazards
- (d) The un reacted gases consisting of Ethylene Gas (C_2H_4), Chlorine Gas (Cl_2) shall be scrubbed with Caustic Scrubber to remove excess Chlorine Gas (Cl_2) and then remaining un reacted Ethylene Gas (C_2H_4), shall be incinerated using Super Kerosene, maximum consumption of which shall not exceed 1000 LPD
- (e) Separate Energy Meter attached to Air Pollution Control Systems, viz., Caustic Scrubber and the Incinerator shall be ensured for operability at all times and the Readings of the same shall be recorded in the Logbook. The Log Book shall be made available to the inspecting officials of this Committee, as and when called for
- (f) The emission arising from the above shall be let out through a Stack (No. 4) of the height 30 meters from ground level
- (g) The Chlorine and Acid Mist (HCl Mist) Concentration from the above stack (No. 4) emission shall not exceed 15 and 35 mg/Nm³ respectively. (EPA Notification [G.S.R. 913(E), dated 24.10.1989])

- (a) Complied, Ethylene is stored in double walled storage tank with pressure/temperature monitoring system and dedicated fire hydrant/sprinkler
- (b) Complied, forced draught flare with smokeless blower system is available
- (c) Complied, 16 Nos. of Ethylene Gas Sensors are provided and are closely monitored
- (d) Complied, un reacted gases are scrubbed with Caustic Scrubber and remaining is incinerated regularly
- (e) Separate Energy Meter is provided for the Hypo Plant and readings are recorded in the Log Book regularly
- (f) The emission is let out through Stack (No. 4)
- (g) The Chlorine and Acid Mist (HCI Mist) Concentration are within the prescribed limits



8 For Boiler (IBR 8.0 TPH; Stack MOC: MS; Natural Draft):

- (a) The fuel used in the Boiler shall be Low Sulphur Heavy Stock (LSHS) and / or Hydrogen Gas only
- (b) 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
- (c) The emission arising from the boiler shall be let out through a Stack (No. 5) of height 45 meters from ground level (EPA Notification [GSR 176(E), 02.04.1996])
- (d) The emissions arising of the above said Stack (No. 5) shall conform to the following prescribed standard limits: *(EP Amendment Notification [GSR 176 (E) dated 02.04.1996]), **(EP Amendment Rules, 2018, MoEF&CC Notification GSR 96 (E) dated 29.01.2018)

S. No.	Parameters	Prescribed standard limits		Control of the contro	Units
	Fuel used	Hydrogen Gas	LSHS		
1	Particulate Matter	800	800	mg/Nm ³	
2	Sulphur di oxide (SO ₂) **	• 1111	600 @ 3% dry O ₂	mg/Nm ³	
3	Oxides of Nitrogen (NO _x) **		300 @ 3% dry O₂	mg/Nm ³	

- (a) Complied, LSHS is used as a fuel in the Boiler
- (b)Complied, consumption quantity of LSHS are within the prescribed limits
- (c) The emission arising from the boiler is let out through Stack (No. 5) of height 45 meters only (d) Emissions arising from the Stack is maintained within the prescribed/standard limits



9 Natural Gas Based Captive Power Generation (2 X 8.5 MW; 1 No. Standby):

- (a) The Power generation capacity of the above Power Generators shall not exceed 8.5 MW, as permitted by this Committee, at any point of time
- (b) The fuel used in the power generators shall be Natural gas only
- (c) The fuel used in the power generator shall be let out through a Stack (No. 6) of height 30 meters from ground level
- (d) The emissions arising of the above said Stack (No. 6) shall conform to the following standard limits (EP Amendment Rules, 2015, MoEF&CC No. s.O.3305 (E) dated 07.12.2015)

S. No.	Parameters	Prescribed standard limits		Unit
	Generator installation date	November 2004	May 2018	
1	Particulate Matter	50	30	mg/Nm ³
2	Sulphur di oxide (SO ₂)	600	100	mg/Nm ³
3	Oxides of Nitrogen (NO _x)	300	100	mg/Nm ³
4	Mercury	0.03	0.03	mg/Nm ³

- (a) Compiled, the power generation capacity will not exceed 8.5 MW at any point
- (b) Complied, generator is operated in Natural Gas only
- (c) Complied, emission is let out through Stack (No. 6) only
- (d) Emissions arising from the Stack is conforming to the prescribed/standard limits

10 For Waste Heat Recovery Boiler (IBR 4.8 TPH; Stack MOC: CS; Natural Draft):

- (a) The fuel used in the Boiler shall be the Flue Gas from the Natural Gas Based Power Generator only
- (b) The emission arising from the boiler shall be let out through a Stack (No. 7) of height 30 meters from ground level *(EP Amendment Notification [GSR 176 (E) dated 02.04.1996])
- (c) The emissions arising of the above said Stack (No. 7) shall conform to the standard limits prescribed, vide Sub-Clause (d) of the Clause 8 of Section V of this Consent Order
- (a) Complied, the fuel used in the Boiler is the Flue Gas from the Power Generator
- (b) The emission arising from the boiler is let out through Stack (No. 7) of height 30 meters
- (c) Emissions arising from the Stack is conforming to the standard limits



- For DG Sets (1 X 600, 1 X 500, 1 X 400, 1 X 180 and 1 X 82.5; in 11 KVA):
 - (a) Diesel Consumption proposed for the above said DG Set shall not exceed 1000 LPH
 - (b) The unit shall comply with the standards for Diesel Generators notified under Environment (Protection) Rules, 1986, as amended till date, read with the Final Guidelines for in-use generator sets, issued by the National Green Tribunal. New Delhi, on behalf of the Central Pollution Control Board, New Delhi (Appeal No. 12 (THC) of 2013, O.A.No. 17 (THC) and 32 (THC) of 2013)
 - (c) Noise from the D.G. Set shall be controlled by providing an acoustic enclosure or by treating the room acoustically, as notified under the provisions of the Environment (Protection) Act, 1986 (GSR 7, dated 22.12.1998)
 - (d) The unit shall provide facilities for collection and storage, of the waste oil, waste oil filters and oil containing sludge resulting from the cleaning of Oil Filters/Fuel Tanks/fuel pipelines, of the above said DG Sets, for disposal as per the provisions of the Hazardous and Other Wastes (Management and Transboundary Movement) Amendment, Rules, 2019, as amended till date and time to time
 - (e) The Stack Height of the above DG Sets, shall be at least 5.0 meters, 4.5 meters, 4 meters, 3.0 meters and 2.0 meters, for above mentioned capacities, respectively, over and above the height of the building, where the DG sets are installed (Emission Regulations Part IV:COINDS/26/1986-87)
 - (f) The emissions arising out of the Stacks (Stack Nos. 8, 9, 10, 11 & 12), shall not exceed the following prescribed standards (G.S.R. 771 (E): EP (III) A Rules, 2013):

S. No.	Parameters	Standard Limits	Unit
1	Oxides of Nitrogen + Hydrocarbon (NOx + HC)	≤ 4.0	g/kW-hr
2	Carbon monoxide (CO)	≤ 3.5	g/kW-hr
3	Particulate Matter (PM)	≤ 0.2	g/kW-hr
4	Smoke Limit (Light Absorption Co-efficient)	≤ 0.7	m ⁻¹

- (a) Complied, consumption is within the limits
- (b) Agree to comply in a phased manner

- (c) Complied, all DG sets are providing with the required acoustic enclosure
- (d) Hazardous wastes handling, storage and disposal are done as per the provisions of the Hazardous and Other Wastes (Management & Transboundary Movement) Amendment, Rules, 2019
- (e) Required stack heights are maintained for all DG Sets
- (f) Emissions arising from the Stacks are conforming to the prescribed standards

Marine Terminal Facility (Max. Draft of 6.9 meters; Max. LOA:148 meters):

12

(a) Adequate number of Ethylene Gas (C₂H₄) Sensors shall be (a) 16 Nos. of Ethylene sensors

	provided around the Marine Terminal Facility and the same	are provided across the facility
	shall be closely monitored, to prevent any fire or explosion	
	hazards	monitored
	(b) There shall be no spillage of Caustic Soda Lye or any kind of	(b) Complied, no spillages arise
	Oil from moored ship, into the coastal waters. If any spillage	If any occurs in future, the
	occurs, at any point of time, the cleaning of the same,	
	completely and disposal of the spilt oil is the sole responsibility of the unit	
	(c) If any reversible and/or irreversible environmental damage	(c) Agree to comply if any
	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,	Marine Terminal Facility
	specific to the occurrences of event	d was a second s
	(d) The unit shall procure and keep the Oil Spill Tier I	(d) All required Oil Spill
	Equipments ready to be deployed, at any point of time, if any	
	such spills occur	available and in ready to deploy
		condition during any spill
	(e) The unit shall notify this Committee, the details of the Ship	(e) Complied, all shipment
	and Shipment, as and when calls are proposed	details are communicated
	(f) The unit shall complement the security of	regularly to your good office
	(f) The unit shall comply with the conditions imposed by the	(f) Complied to all the
	Ministry of Environment, Forest and Climate Change, New	conditions of MoEF&CC and
	Delhi, in its Environment Clearance and copy of the compliance	copy of the reports are
	report shall be submitted, to this Committee also, as and when submitted to the Ministry	submitted to PPCC regularly
13	The ambient air quality within the premises shall not exceed	Complied to ambient air quality
	the following standards (EPA Notification: GSR 176 (E) dated	standards at all times
	02.04.1996):	
	PM10 - 100 ug/m3	
	SO2 - 80 ug/m3	
	NOx - 80 ug/m3	
	CO - 5000 ug/m3	
	Chlorine - 30 ug/m3	
	HCl Mist - 70 ug/m3	
14	The noise level at the boundary shall not exceed 75 and 70 dB	The noise level at the boundary
	(A) during day and night time respectively (EPS Notification:	are within the prescribed limits
	G.S.R. 1063(E), dated 26.12.1989)	
15	For Online Continuous Emission Monitoring System:	



		maintained as per CPCB
	Online Continuous Emission Monitoring System (OCEMS), as per the guidelines of the CPCB, regularly, for seamless transfer	Guidelines. Our CARE Air system
	of data, of the 16 Nos. of strategically placed Ambient Chlorine Sensors, Chlorine Sensors at the Stacks, ETP Inlet and Outlet	is in continuous connection with the PPCC/CPCB servers through
	totalizer and the Particulate Matter, Sulphur di oxide and Oxides of Nitrogen from the Boilers, etc., to the servers of this	Glens/ENVEA servers
	Committee, which is viewable via https://ppcc.glensserver.com /PPCC_ONLINE/inde.html and the CPCB, New Delhi, without	
	interruption, synced in Cloud based system, of the Glens Server	
	(b) The unit shall ensure raising and receipt of SMS and Email alerts to the corresponding officials of this Committee, as per	(b) Notifications are sent to all required officials through E.Mail
	the above said guidelines of the CPCB, New Delhi. Email Alerts for exceedances shall be notified to ppcc.pon@nic.in, ssodste.py@gov.in and je3dste.py@gov.in	whenever there is any disturbances/exceedances in the CARE Air System
16	Coast Guard Oil Spill Contingency Plan (OSCP) shall be strictly adhered to	Complied
17	The unit shall obtain ISO: 9001. ISO: 14001 and ISO: 18001 and shall strictly adhere to the norms	Complied, we are IMS Certified Company
18	For Storage Tanks:	
	Caustic Soda Lye, Sulphuric Acid shall be stored appropriately, provided with adequate safety measures, such as, dyke walls,	Complied, all dyke walls of storage tanks are built as per the
	forming an outer concentric tank, provided with anticorrosive	said requirement to avoid
	impervious flooring, of capacity at least 1.5 times the capacity	contamination of land and to
	of the respective storage tank, to avoid contamination of	withstand any failure of tank structures or leaks
	surround land, in case of any failure of tank structures or leaks occurs	structures or leaks
19	For Hazardous Wastes:	
	The Hazardous Wastes, generated from the unit, viz., the	Hazardous wastes handling,
	waste oil, Oil Soaked Cotton Wastes, Waste Oil Filters and Oil	storage and disposal are done as
	containing sludge resulting from the cleaning of Oil Filters/Fuel Tanks/fuel pipelines, of the Power Generator and the DG Sets	per the provisions of the Hazardous and Other Wastes
	and other Hazardous Wastes, shall be collected and stores	(Management & Transboundary
	appropriately, as per the provisions of the Hazardous and	Movement) Amendment, Rules,
	Other Wastes (Management and Transboundary Movement)	2019 only
	Amendment, Rules, 2019, as amended till date and time to	



Water Consent Order (To Operate & Renewal)

No. PPCC/CTOR/WTR/TRP/KKL/JE/2019/852 dated 20 NOV 2019

V	COHO	itions specific	ed in Consen	t Order			Compliance status
7	Speci	fic Condition	S				
1	Water Requirement and Discharge quantities permitted: (a) The Maximum water requirement of the unit and the permitted water discharge quantities shall not exceed the following (in KLD):						ed Complied, water requirement and the
	S. No.	S. Particulars For Caustic Soda and For Ethylene Di Chloride		discharge quantities are within the said limits			
			Requirem ent	Discharge	Requirem ent	Discharge	
	1	Domestic	10.0	8.0	5.0	4.0	
	2	Industrial	900.0	14.0	835.0	71.0	
	3 Total 910.0 22.0 840.0 75.0						
			naintain the	Flow Meter	attached to	awl capacity shat the Borewell an	the PASIC Borewell d (b) Flow meters are
	the re	ne unit shall readings of the	naintain the same shall	Flow Meter	attached to	the Borewell an	the PASIC Borewell d (b) Flow meters are installed and readings are
	the remade For Et (a) Ti Desali	ne unit shall readings of the available to the available to the available to the available to the available reading plant available avai	naintain the same shall he inspectin oride Manufaquirement at the premission Plant shall he can be shall be sha	Flow Meter be recorded g officials, a acturing: shall be r ses of the un	attached to d in a logboo s and when c net out fro nit tained regula	the Borewell an	the PASIC Borewell d (b) Flow meters are installed and readings are recorded in a log book g (a) The water needed is met out from existing Desalination Plant



(b)	exceed in the second se	Reject of the Desalination, shall be let into the Expropriate diffusers, at the equality of the Reject wate 86[GSR 7, dated 22.12.19 Parameters pH Dissolved Oxygen (DO) Colour and Odour	Standard Limits 6.5-8.5 5.0 No Noticeable colour and	utum of n River, andards Unit - mg/l	the Desalination Plant does not exceed 3,000 KLD		
(b) (b) (c) (c) (E) (c) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	b) The 1800 KL using ap	Reject of the Desalination. Down the Reject of the Desalination. Down the Reject water and the Reject water and the Reject water and Reject wa	on Plant, generated to a quantification and sack Waters of the Paravadayar appropriate dilution levels or shall conform the following states of the paravadayar shall conform the paravadayar shall co	utum of n River, andards Unit - mg/I	does not exceed 3,000 KLD (b) Complied, reject water of the Desalination Plant is let out in the given area using appropriate diffusers (c) Reject water quality is maintained & monitored		
(c) (c) (c) (E) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	c) The centre of	Reject of the Desalinati D, shall be let into the E propriate diffusers, at the quality of the Reject wate 86[GSR 7, dated 22.12.19 Parameters pH Dissolved Oxygen (DO) Colour and Odour	Back Waters of the Paravadayar e appropriate dilution levels er shall conform the following sta e 198]): Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l	KLD (b) Complied, reject water of the Desalination Plant is let out in the given area using appropriate diffusers (c) Reject water quality is maintained & monitored		
(c) (c) (E) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	c) The of EPS, 19 S.No. 1 2	D, shall be let into the Expropriate diffusers, at the quality of the Reject wate 86[GSR 7, dated 22.12.19 Parameters pH Dissolved Oxygen (DO) Colour and Odour	Back Waters of the Paravadayar e appropriate dilution levels er shall conform the following sta e 198]): Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l	(b) Complied, reject water of the Desalination Plant is let out in the given area using appropriate diffusers (c) Reject water quality is maintained & monitored		
(c) (c) (E) (c) (d) (d) (d) (d) (d) (d) (d) (d) (d) (d	c) The of EPS, 19 S.No. 1 2	D, shall be let into the Expropriate diffusers, at the quality of the Reject wate 86[GSR 7, dated 22.12.19 Parameters pH Dissolved Oxygen (DO) Colour and Odour	Back Waters of the Paravadayar e appropriate dilution levels er shall conform the following sta e 198]): Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l	reject water of the Desalination Plant is let out in the given area using appropriate diffusers (c) Reject water quality is maintained & monitored		
(c)	c) The of EPS, 19 S.No. 1 2	propriate diffusers, at the quality of the Reject wate 86[GSR 7, dated 22.12.19 Parameters pH Dissolved Oxygen (DO) Colour and Odour	er shall conform the following sta 198]): Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/I	Desalination Plant is let out in the given area using appropriate diffusers (c) Reject water quality is maintained & monitored		
(c (E	c) The of EPS, 19 S.No. 1 2	Parameters pH Dissolved Oxygen (DO) Colour and Odour	er shall conform the following sta 198]): Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l	out in the given area using appropriate diffusers (c) Reject water quality is maintained & monitored		
(E	S.No. 1 2 3	Parameters pH Dissolved Oxygen (DO) Colour and Odour	Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l	appropriate diffusers (c) Reject water quality is maintained & monitored		
(E	S.No. 1 2 3	Parameters pH Dissolved Oxygen (DO) Colour and Odour	Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l	(c) Reject water quality is maintained & monitored		
(E	S.No. 1 2 3	Parameters pH Dissolved Oxygen (DO) Colour and Odour	Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l	maintained & monitored		
(E	S.No. 1 2 3	Parameters pH Dissolved Oxygen (DO) Colour and Odour	Standard Limits 6.5-8.5 5.0 No Noticeable colour and	Unit - mg/l			
1	1 2 3	pH Dissolved Oxygen (DO) Colour and Odour	6.5-8.5 5.0 No Noticeable colour and	- mg/l	as per the given standards		
4	3	Dissolved Oxygen (DO) Colour and Odour	5.0 No Noticeable colour and	mg/l			
2	3	Colour and Odour	No Noticeable colour and	-			
2							
ç	4	Floating Material	1780 OF 161006		E III		
ç	4	Floating Material	odour				
		Lingting Material					
6	5	Suspended Solids					
1							
11.	6	Oil and Grease 0.1					
17	7	Mercury (As Hg)	0.1	mg/l			
1	8	Lead (As Pb) 0.1					
5	9	Cadmium (As Cd)	0.1	mg/l			
Fo	or Haza	ardous Wastes:					
1000	he use	d/worn out Filters of the	Agree to comply				
1000		collected and stored, as p	77.46				
1 300		Wastes (Management					
		nent, Rules, 2019, as ar					
		aid Filters shall be carried					
0.00		I not be disposed in and					
10000	ost	i not be disposed in and					
		ling/scrubbing water who	rever necessary shall be recycled	d	Complied, ZLD system is		
''	ne coo	inig/scrubbing water wife	rever necessary shan be recycle.		maintained		
Ti	horo c	hould be no offluent d	lischarge from the process an	d shall	111000000000000000000000000000000000000		
		n Zero Liquid Discharge	unengibe from the brocess an	a anon	efficiently and there is no		
In	ııdırıtdif	i zero tiquia Discriarge			effluent discharge from		
					process GANA		

J. C.

COMPLIANCE REPORT TO THE CONDITIONS SPECIFIED IN PPCC CONSENT ORDER (TO OPERATE & RENEWAL)

Air Consent Order (To Operate & Renewal)

No. PPCC/CTOR/AIR/TRP/KKL/JE/2019/851 dated 20 NOV 2019

#	Conditions specified in Consent Order	Compliance status	
VI 1	Report Submissions: The unit shall submit Environment Statement in prescribed Form V, for the year ending March of every year, as imposed by the Environment (Protection) rules, 1986, as amended till date, to this committee, on or before 30 th September of every	Form V was submitted on 12 SEP 2024 (Re No.: CSL/KKL/EN/F5/2024/SEP/379)	
VII	year General Conditions:		
1	Notwithstanding anything contained in this consent, the Puducherry Pollution Control Committee hereby reserves its right and power under Section 21(4) of the Air (Prevention and Control of Pollution) Act, 1981 to review /revoke any or all conditions imposed herein and to cancel, refuse, modify or stipulate additional conditions for the purpose of the Act by the Committee, if conditions of the consent granted are not fulfilled		
2	Puducherry Pollution Control Committee reserves the right to revoke this clearance, if implementation of any of the conditions stipulated above is violated	Agree to comply	
3	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	, will be obtained from the authority for a	
1	The applicant shall take all possible measures to create pollution free surroundings	Complied, possible measures are taken in regular basis to create pollution free surrounding	
5	The application for Air Consent Order (Renewal) shall be made at least 30 days before the date of expiry of this Consent Order. This Consent Order shall be exhibited in the office room and must be available to the inspecting officers of this Committee	Agree to comply. Consent Order is exhibited in the office room and is available for the inspecting officers of the Committee	
	Housekeeping shall be maintained clean	Complied, regular housekeeping done	
	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	

8	The unit shall regularly conduct On-site and Off-site Emergency Mock Drills, as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989	Complied, On-site Emergency Mock Drill was done on 29 AUG 2024 & Off-site Emergency Mock Drill was done on 15 FEB 2024
VIII 1	Better Environmental Management Practices: Energy Conservation Measures like installation of LED's for lighting the areas inside and outside the buildings shall be adopted. Used CFL's/TFL's/and LED's should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid toxic contamination	Agree to comply. 167 Nos. of LED lights has been installed FY2024-25 & the energy conserved is 36,837 units
2	Use of Solar Panels may be adopted to a maximum extent possible, especially for street lights within the campus	Agree to comply
3	Energy Audit and annual reduction to be planned and intimated to this committee	Agree to comply, Energy Audit was lastly done by M/s. NIN Energy India Private Limited from 07.12.2021 to 11.12.2021
4	Appropriate Rain Water Harvesting Structures and Farm Ponds shall be established on scientific basis	Agree to comply
5	The unit shall declare itself and "Single Used Plastic Free Zone" and maintain the same in compliance with the Notification issued by this Committee on Ban of Single Use Plastics, G.O. Ms. No. 18/Envt./2019 dated 30.07.2019, published in the Gazette of Puducherry, Part I Extraordinary, dated 02.08.2019	Agree to comply
IX	Implementation Schedule: The unit shall collect the samples of the Sludge and analyze the same in NABL Accredited Laboratory for its Hazardous/Non-hazardous nature and shall submit the report on or before 31.12.2019	Complied, Sludge analysis report submitted on 31 DEC 2019 (Ref. No.: CSL/KKL/Cons-Air -Comply/2019-2020)

(HELA/AHJORE)

Water Consent Order (To Operate & Renewal)

No. PPCC/CTOR/WTR/TRP/KKL/JE/2019/852 dated 20 NOV 2019

#	Conditions specified in Consent Order	Compliance status	
VI	Report Submissions:		
1	The unit shall submit Environment statement in prescribed Form V, for the year ending March of every year, as imposed by the Environment (Protection) rules, 1986, as amended till date, to this committee, on or before 30 th September of every year	Form V was submitted on 12 SEP 2024 (Ref No.: CSL/KKL/EN/F5/2024/SEP/379)	
VII	General Conditions:		
1	Notwithstanding anything contained in this consent, the Puducherry Pollution Control Committee hereby reserves its right and power under Section 21(4) of the Air (Prevention and Control of Pollution) Act, 1981 to review /revoke any or all conditions imposed herein and to cancel, refuse, modify or stipulate additional conditionsfor the purpose of the Act by the Committee, if conditions of the consent granted are not fulfilled		
2	Puducherry Pollution Control Committee reserves the right to revoke this clearance, if implementation of any of the conditions stipulated above is violated	0 , ,	
3	The applicant shall make an application for renewal of consent in the prescribed form at least 30 days before the date of expiry of this Consent Order or 30 days before the new or altered outlet is proposed to be commissioned and/or a new discharge is proposed to be made, whichever is earlier	Agree to comply	
4	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		
5	The applicant shall take all possible measures to create pollution free surroundings	Complied, possible measures are ta in regular basis to create pollution f surrounding	
5	This Consent Order shall be exhibited in the office room and must be available to the inspectingofficers of this Committee	Consent Order is exhibited in the office room and is available for the inspecting officers of the Committee	

7	Housekeeping shall be maintained clean	Complied, regular housekeeping done
8	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
9	The unit shall regularly conduct On-site and Off- site Emergency Mock Drills, as per the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989	Complied, On-site Emergency Mock Drill was done on 29 AUG 2024 & Off-site Emergency Mock Drill was done on 15 FEB2024
VIII 1	Better Environmental Management Practices: Energy Conservation Measures like installation of LED's for lighting the areas inside and outside the buildings shall be adopted. Used CFL's/TFL's/and LED's should be properly collected and disposed off/sent for recycling as per the prevailing guidelines/rules of the regulatory authority to avoid toxic contamination	Agree to comply. 167 Nos. of LED lights has been installed FY2024-25 & the energy conserved is 36,837 units
2	Use of Solar Panels may be adopted to a maximum extent possible, especially for street lights within the campus	Agree to comply
3	Energy Audit and annual reduction to be planned and intimated to this committee	Agree to comply, Energy Audit was lastly done by M/s. NIN Energy India Private Limited from 07.12.2021 to 11.12.2021
4	Appropriate Rain Water Harvesting Structures and Farm Ponds shall be established on scientific basis	Agree to comply
5	The unit shall declare itself and "Single Used Plastic Free Zone" and maintain the same in compliance with the Notification issued by this Committee on Ban of Single Use Plastics, G.O. Ms. No. 18/Envt./2019 dated 30.07.2019, published in the Gazette of Puducherry, Part I Extraordinary, dated 02.08.2019	Agree to comply
IX	Implementation Schedule: The unit shall install a dedicated STP to collect and treat the domestic waste water on or before 31.03.2020 and Action Taken report shall be submitted to this Committee	Complied, dedicated STP installed to collect and treat the domestic waste water and action taken report submitted on 15 FEB 2022 (Ref. No.: CSL/KKL/EN/STP/2022/FEB/97)





Gaseous Emission Data - APR 24 to SEP 24

			Process Stacks	S		
			Hypo & HCl Tower	er		
Parameters	APR	MAY	NOC	JUL	AUG	SEP
Cl2, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)
HCL, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)
			EDC Incinerator)r		
CI2, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDI (DI 10)
HCL, mg/Nm3	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDI (DI 10)
Ethylene, mg/m3	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)
EDC, mg/m3	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)	BDL (DL 0.1)

* Sample reports attached





TEST REPORT

Test Report No.: ICE-2410040008

ORIGINAL

Issued To

Page 1 of 1

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010008

Sample Description*

: Stack Emission

Received On

: 01-10-2024

Sample Location

: HCL Tower

Commenced On : 01-10-2024

Latitude

: N 10° 50' 47.4"

Completed On

: 04-10-2024

Longitude

: E 079º 50' 17.2"

Date of Report

: 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer References

: Test Request Form/28/09/2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

:27.09.24

S.No.	Parameters	Method	Result	Specification			
	Discipline : Chemical Group : Atmospheric Pollution						
1.	. General Parameters						
a.	Acid Mist (HCl), mg/Nm3	USEPA Method 26A	BDL(DL 1.0)	35 Max			
b.	Chlorine, mg/Nm ³	USEPA Method 26A	BDL(DL 1.0)	15 Max			

^{&#}x27;#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit; Instrument Used: Stack Sampler, Flue gas Analyzer

REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****





R. SAKTHIVEL

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennai - 600 096.

Ph: 044 - 24962512

Email: itclabs.chennal@ltclabs.com

Website: www.itclabs.com

Disclaimer:

Assistant Managur Environment Section

- > The test result related only to the items tested
- The test report shall not be reproduced in full or part without the written approval of ITC Labs. Chennal
- > The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers



TEST REPORT

Test Report No.: ICE-2410040009

ORIGINAL

Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010009

Sample Description*

: Stack Emission

Received On

: 01-10-2024

Sample Location

: Hypo Tower

Commenced On : 01-10-2024

Latitude

: N 10° 50' 47.6"

Completed On

: 04-10-2024

Longitude

: E 079° 50' 17.4"

Date of Report

: 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer Reference*

: Test Request Form/ 28/09/2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

:27.09.24

S.No.	Parameters	Method	Result	Specification			
	Discipline : Chemical						
	Group : Atmospheric Pollution						
1.	. General Parameters						
2.	Acid Mist (HCI), mg/Nm3	USEPA Method 26A	BDL(DL 1.0)	35 Max			
b.	Chlorine, mg/Nm3	USEPA Method 26A	BDL(DL 1.0)	15 Max			

^{&#}x27;#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit; Stack Sampler.

REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****





R. SAKTHIVEL Assistant Manager

Environment Section

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennal - 600 096.

Ph: 044 - 24962512

Email: itolabs.chennai@itolabs.com

Website: www.itclabs.com

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TEST REPORT

Report No.: ICE-2410040010

ORIGINAL

Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010010

Sample Description*

: Stack Emission

Received On

: 01-10-2024

Sample Location

: Ethylene Di Chloride - Incinerator

Commenced On : 01-10-2024

Latitude

: N 10° 50' 46.8"

Completed On

: 04-10-2024

Longitude

: E 079° 50' 12.8"

Date of Report : 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure Customer References : ITC/CHN/GSOP/001 : Test Request Form/28/09/2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

:27.09.24

S.No.	Parameters	Method	Result	Specification			
	Discipline : Chemical						
	Group : Atmospheric Pollution						
1.	General Parameters						
a.	Acid Mist (HCI), mg/Nm3	USEPA Method 26A	BDL(DL 1.0)	35 Max			
ь.	Ethylene Di Chloride, mg/Nm3	ITC/CHN/GSOP/044	BDL(DL 0.1)	Not Specified			
¢.	Ethylene, mg/Nm ³	ITC/CHN/GSOP/044	BDL(DL 0.1)	Not Specified			
d.	Chlorine, mg/Nm3	USEPA Method 26A	BDL(DL 1.0)	15 Max			

^{*} represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit; Stack Sampler.

REMARKS : The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****





R. SAKTHIVE Assistant Managar

Environment * - 15.00

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganal'ur Taluk, Chennai - 600 096.

Ph: 044 - 24962512

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- > The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers



Environment Monitoring Data - APR 24 to SEP 24

		A	mblent Air Quality Mo	onitoring		
	Locations: Main	Gate - PVC Plant, HCl/Hypo	, Flaker/STP, Desalination	Plant, Ethylene Storage,	Main Gate - ICD Plant, CI	PP-2
			ximum values recorded is			
Parameters	APR	MAY	JUN	JUL	AUG	SEP
SO2, ug/m3	9.45	9.41	8.94	8.71	9.24	9.02
NO2, ug/m3	35.38	25.95	24.31	21.21	24.68	22.5
PM10, ug/m3	72.23	70.29	71.59	66.59	73.64	70.58
PM 2.5, ug/m3	32.43	33.26	33.26	30.77	35.34	33.26
03, ug/m3	17.5	17.04	17.49	16.69	17.4	17.46
Pb. ug/m3	BDL (DL 0.02)	BDL (DL 0.02)	BDL (DL 0.02)	BDL (DL 0.02)	BDL (DL 0.02)	BDL (DL 0.02)
NH3, ug/m3	9.5	9.22	9.38	8.65	9.05	8.78
C6H6, ug/m3	BDL (DL 1.0)	BDL (DL 1.0)	8DL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)
Benzo / Pyrene, ng/m3	BDL (DL 1.0)	8DL (DL 1.0)	8DL (DL 1.0)	8DL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)
As, ng/m3	BDL (DL 2.0)	BDL (DL 2.0)	BDL (DL 2.0)	BDL (DL 2.0)	BDL (DL 2.0)	BDL (DL 2.0)
Ni, ng/m3	BDL (DL 2.0)	8DL (DL 2.0)	BDL (DL 2.0)	BDL (Dt 2.0)	BDL (DL 2.0)	BDL (DL 2.0)
Acid Mist/HCl, ug/m3	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)
CO, ug/m3	8DL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	8DL (DL 1.0)
Cl2, ug/m3	8DL (DL 1.0)	BDL (DL 1.0)	8DL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)	BDL (DL 1.0)
		Stack	Monitoring - Captive !	Power Plants		
			Waste Heat Recovery Boil			
			ximum values recorded is			
/elocity, m/s	10.1	9.9	9.9	9.5	8.7	9
PM, mg/m3	17.18	18.31	16.81	14.42	16.05	18.15
5O2, mg/m3	21.8	27.45	21.98	16.57	22.14	24.74
Nox, mg/Nm3	61.2	64.24	52.51	44.05	61.77	73.14
002, %	7	7.2	7.1	5.8	7.2	7.3
02, %	11.1	11.7	11.3	12.1	12	12.6
stack temperature, oC	248	257	136	181	167	182
low rate, Nm3/hr	17,752	17,220	20,211	16,950	16,919	16.566
CO, mg/Nm3	BDL (DL 0.2)	BDL (DL 0.2)	BDL (DL 0.2)	8DL (DL 0.2)	8DL (DL 0.2)	BDL (DL 0.2)
Mercury, mg/Nm3	BDL (DL 0.01)	BDL (DL 0.01)	BDL (DL 0.01)	BDL (DL 0.01)	BDL (DL 0.01)	BDL (DL 0.01)
(10.101) (10.001) (10.001)	10011010101	June for a cost		The state of the s	[801 [01 0.01]	DOL (DL 0.01)
			Stack Monitoring - DO	STATE OF THE PARTY		
			ns: 600, 500, 600 (New),			
talasiti sala	Tros		imum values recorded is	The state of the s	Te -	1
/elocity, m/s	10.4	9.9	10	10.9	9.9	10.6
O2, mg/Nm3	BDL (DL 4.0)	BDL (DL 4.0)	BDL (DL 4.0)	BDL (DL 4.0)	0	BDL (DL 4.0)
02,%	3	3.4	3	2.8	2.9	3.3
02, %	17	16.1	16.4	17.1	17.2	16.8
tack temperature, oC	136	134	129	124	99	119
low rate, Nm3/hr	904	809	468	1,426	227	871
M, g/kw-hr	0.08	0.06	0.08	0.1	0.13	0.07
lox + HC, g/kw-hr	0.58	0.55	0.7	1.06	0.85	0.63
O, g/kw-hr	0.54	0.34	0.52	0.9	0.97	0.47
moke limit, m-1	0.3	0.3	0.3	0.3	0.3	0.3
			Stack Monitoring - B			
			ecation: 8 TPH (LSHS fired			
		(Max	imum values recorded is g	iven below)		
elocity, m/s	9					
M, mg/m3	22.29					
02, mg/m3	139					
lax, mg/Nm3	75.43					
02, %	9.5					
2, %	9	No operation	No operation	No operation	No operation	No operation
tack temperature, oC	187					
low rate, Nm3/hr	5,900					
O, mg/Nm3	0					
Many and Spige 1 Martines.	EW.	4				

Sample reports attached





TEST REPORT

Test Report No.: ICE-2410040002 (1) NABL ULR No.: TC69\$224000016305F



ORIGINAL

Page 1 of 2

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010002

Sample Description*

: Ambient Air Monitoring

Received On

: 01-10-2024

Sample Location

: Top of the Canteen

Commenced On : 01-10-2024

Latitude

: N 10° 50' 50.3"

Completed On

: 04-10-2024

Longitude

: E 079°50' 13.7"

Date of Report

: 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer References

: Test Request Form/ 28/09/2024

Test Report as per

Sky Appearance

: NAAQ Norms

Sampling Information

Date of Monitoring : 27.09.24-28.09.24 Duration of Monitoring, minutes : 1440 Avg. Ambient Temperature, °C : 32 Avg. Relative Humidity, % : 63

S.No.	Parameters	Method	Result	Specification		
	Discipline : Chemical					
	Group : Atmospheric Pollution					
	Ambient Air Quality Parameters					
a.	Sulphur Dioxide (SO2), µg/m3	IS 5182 (Part-2)	9.02	80 Max		
b.	Nitrogen Dioxide (NO2), µg/m3	IS 5182 (Part-6)	22.50	80 Max		
c.	Particulate Matter (PM10), µg/m3	IS 5182 (Part-23)	70.58	100 Max		
đ.	Particulate Matter (PM 2.5), µg/m3	IS 5182 (Part-24)	33.26	60 Max		

: Clear Sky





Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennai - 600 096.

Ph: 044 - 24962512

Email: Itolabs.chennai@itclabs.com

Website: www.itclabs.com

Disclaimer:

R. SAKTHIVEL Assistant Manager

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TEST REPORT



Test Report No. : ICE-2410040002 (1) NABL ULR No.: TC695224000016305F ORIGINAL

Page 2 of 2

c.	Ozone (O3), µg/m3	IS 5182 (Part-9)	17.46	180 Max
ſ.	Lead (Pb), µg/m3	IS 5182 (Part-22)	BDL (DL: 0.02)	1 Max
g.	Ammonia (NH3), µg/m3	1S 5182 (Part-25)	8.78	400 Max
h.	Benzene (C6H6),µg/m3	IS 5182 (Part-11)	BDL (DL: 1.0)	5 Max
j.	Benzo (a) Pyrene(Particulate Phase only), ng/m3	IS 5182 (Part-12)	BDL (DL: 1.0)	1 Max
j.	Arsenic (As), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	6 Max
k.	Nickel (Ni), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max

^{&#}x27;4' represents Customer Defined Fields

NOTE : BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters.

*****End Of Report****





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Assistant Manager



TEST REPORT

Test Report No. : ICE-2410040002 (2)

ORIGINAL Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010002

Sample Description®

: Ambient Air Monitoring

Sample Location

: Top of the Canteen

Latitude

: N 10° 50' 50.3"

Longitude

: E 079°50' 13.7"

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer Reference#

: Test Request Form/ 28/09/2024

Test Report as per

: NAAQ Norms

Sampling Information

Date of Monitoring	: 27.09.24-28.09.24	
Duration of Monitoring, minutes	: 1440	
Avg. Ambient Temperature, °C	: 32	
Avg. Relative Humidity, %	: 63	
Sky Appearance	: Clear Sky	

S.No.	Parameters	Method	Result	Specification			
	Discipline : Chemical						
	Group : Atmospheric Pollution Ambient Air Quality Parameters						
0.000							
1.	Carbon Monoxide (CO), mg/m3	IS 5182 (Part-10)	BDL (DL 1.0)	2 Max/5 Max			
m.	Chlorine (Cl ₂), µg/m ³	ITC/CHN/GSOP/044	BDL (DL 1.0)	30 Max			
n.	Acid Mist (HCl), µg/m3	ITC/CHN/GSOP/044	BDL (DL 1.0)	70 Max			

[&]quot;represents Customer Defined Fields

NOTE : BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters.



*****End Of Report*****



Interstellar Testing Centre Private Limited

Piot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennai - 600 096.

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Received On

: 01-10-2024

Commenced On : 01-10-2024

Completed On : 04-10-2024

Date of Report : 04-10-2024





ORIGINAL

Page 1 of 2

: 01-10-2024

: 04-10-2024

: 04-10-2024

Commenced On : 01-10-2024

TEST REPORT

Test Report No.: ICE-2410040003 (1) NABL ULR No.: TC695224000016304F

Issued To

M/s.Chemplast sanmar Limited.,

315, Melavanjore, Nagore Post, Karaikal Region, Puducherry, India

Sample Registration No.

: E02-2410010003

Sample Description*

: Ambient Air Monitoring

Sample Location

: ICD Plant (Near CPP-2)

: N 10° 50' 47.03"

Latitude Longitude

: E 079°50' 12.15"

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer Reference*

: Test Request Form/ 28/09/2024

Test Report as per

: NAAQ Norms

Sampling Information

Date of Monitoring

: 27.09.24-28.09.24

Received On

Completed On

Date of Report

Duration of Monitoring, minutes

: 1440

Avg. Ambient Temperature, °C

:32

Avg. Relative Humidity, %

: 63

Sky Appearance

: Clear Sky

S.No.	Parameters	Method	Result	Specification			
	Discipline : Chemical						
	Group : Atmospheric Pollution						
	Ambient Air Quality Parameters						
а.	Sulphur Dioxide (SO2), µg/m3	IS 5182 (Part-2)	8.31	80 Max			
Ь.	Nitrogen Dioxide (NO2), µg/m3	IS 5182 (Part-6)	21.19	80 Max			
c.	Particulate Matter (PM10), µg/m3	IS 5182 (Part-23)	68.05	100 Max			
đ.	Particulate Matter (PM 2.5), µg/m3	IS 5182 (Part-24)	31.60	60 Max			





R. SAKTHIVEL Assistant Managar Environment Section

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate, Perungudi, Sholinganallur Taluk, Chennal - 600 096. Ph: 044 - 24962512

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TEST REPORT



Test Report No. : ICE-2410040003 (1) NABL ULR No.: TC695224000016304F

ORIGINAL Page 2 of 2

e.	Ozone (O3), µg/m3	IS 5182 (Part-9)	16.74	180 Max
	Lead (Pb), µg/m3	IS 5182 (Part-22)	BDL (DL: 0.02)	1 Max
g.	Ammonia (NH3), µg/m3	IS 5182 (Part-25)	8.46	400 Max
h.	Benzene (C6H6),µg/m3	IS 5182 (Part-11)	BDL (DL: 1.0)	5 Max
i.	Benzo (a) Pyrene(Particulate Phase only), ng/m3	IS 5182 (Part-12)	BDL (DL: 1.0)	1 Max
j.	Arsenic (As), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	6 Max
k.	Nickel (Ni), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max

^{&#}x27;#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters.

*****End Of Report****





Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate, Perungudi, Sholinganallur Taluk, Chennai - 600 096.

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Assistant Manager

Environment Staation



TEST REPORT

Test Report No. : ICE-2410040003 (2)

ORIGINAL

Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited 315, Melavanjore, Nagore Post, Karaikal Region, Puducherry, India.

Sample Registration No.

: ICE-2410010003

Sample Descriptions

: Ambient Air Monitoring

Received On

: 01-10-2024

Sample Location

: ICD Plant (Near CPP-2)

Commenced On : 01-10-2024

Latitude

: N 10° 50' 47.03"

Completed On

: 04-10-2024

Longitude

: E 079°50' 12.15"

Sample Submission Type

Date of Report : 04-10-2024

Sampling Procedure

: Sampled by Lab Rep. : ITC/CHN/GSOP/001

Customer References

: Test Request Form/ 28/09/2024

Test Report as per

: NAAQ Norms

Sampling Information

Date of Monitoring	: 27.09.24-28.09.24	
Duration of Monitoring, minutes	: 1440	
Avg. Ambient Temperature, °C	: 32	
Avg. Relative Humidity, %	: 63	
Sky Appearance	: Clear Sky	

S.No.	Parameters	Method	Result	Specification			
	Discipline : Chemical						
	Group : Atmospheric Pollution Ambient Air Quality Parameters						
I.	Carbon Monoxide (CO), mg/m3	IS 5182 (Part-10)	BDL (DL 1.0)	2 Max/5 Max			
m.	Chlorine (Cl ₂), µg/m ³	ITC/CHN/GSOP/044	BDL (DL 1.0)	30 Max			
n.	Acid Mist (HCI), µg/m3	ITC/CHN/GSOP/044	BDL (DL 1.0)	70 Max			

^{&#}x27;#' represents Customer Defined Fields

NOTE : BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters.

*****End Of Report****





Assistant Mo.

Environment and and and

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

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TEST REPORT



Test Report No. : ICE-2410040004 (1) NABL ULR No.: TC695224000016303F

ORIGINAL

Page I of 2

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010004

Sample Description#

: Ambient Air Monitoring

: 01-10-2024

Sample Location

: Near Desalination Plant

Commenced On : 01-10-2024

Latitude

: N 10° 50' 57.2"

Completed On

Received On

:04-10-2024

Longitude

: E 079° 50' 22.0"

Date of Report

: 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer References

: Test Request Form/ 28-09-2024

Test Report as per

: NAAQ Norms

Sampling Information

Date of Monitoring Duration of Monitoring, minutes Avg. Ambient Temperature, 'C

Avg. Relative Humidity, %

: 27.09.24-28.09.24

: 1440

: 32

: 63

Sky Appearance

: Clear Sky

S.No.	Parameters	Method	Result	Specification		
	Discipline: Chemical					
	Group : Atmospheric Pollution					
	Ambient Air Quality Parameters					
a.	Sulphur Dioxide (SO2), µg/m3	IS 5182 (Part-2)	8.12	80 Max		
ь.	Nitrogen Dioxide (NO2), µg/m3	IS 5182 (Part-6)	19.63	80 Max		
C.	Particulate Matter (PM10), µg/m3	IS 5182 (Part-23)	62.24	100 Max		
d.	Particulate Matter (PM 2.5), µg/m3	IS 5182 (Part-24)	28.69	60 Max		





Plot No. 2, S.No. 12/2A, Industrial Estate,

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Disclaimer:

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Test Report No.: ICE-2410040004 (1) NABL ULR No. TC695224000016303F

ORIGINAL

Page 2 of 2

c.	Ozone (O3), µg/m3	IS 5182 (Part-9)	16.02	180 Max
f.	Lead (Pb), µg/m3	IS 5182 (Part-22)	BDL (DL: 0.02)	1.0 Max
g.	Ammonia (NH3), µg/m3	IS 5182 (Part-25)	7.88	400 Max
h.	Benzene (C6H6),µg/m3	IS 5182 (Part-11)	BDL (DL: 1.0)	5 Max
i.	Benzo (a) Pyrene(Particulate Phase only), ng/m3	1S 5182 (Part-12)	BDL (DL: 1.0)	1 Max
j.	Arsenic (As), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	6 Max
k.	Nickel (Ni), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max

^{&#}x27;#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters:

*****End Of Report****





Interstellar Testing Centre Private Limited

Piot No. 2, S.No. 12/2A, Industrial Estate, Perungudi, Sholinganailur Taluk, Chennal - 600 096. Ph : 044 - 24962512

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R. SAKTHIVEL Assistant Manager Environment Seption



Test Report No.: ICE-2410040004 (2)

ORIGINAL

Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010004

Sample Description*

: Ambient Air Monitoring

Received On

: 01-10-2024

Sample Location

: Near Desalination Plant

Commenced On : 01-10-2024

Latitude

: N 10° 50' 57.2"

Completed On

:04-10-2024

Longitude

: E 079° 50' 22.0"

Sample Submission Type

: Sampled by Lab Rep.

Date of Report : 04-10-2024

Sampling procedure

: ITC/CHN/GSOP/001

Customer Reference*

: Test Request Form/ 28-09-2024

Test Report as per

: NAAQ Norms

Sampling Information

Date of Monitoring	: 27.09.24-28.09.24
Duration of Monitoring, minutes	: 1440
Avg. Ambient Temperature, *C	: 32
Avg. Relative Humidity, %	: 63
Sky Appearance	: Clear Sky

S.No.	Parameters	Method	Result	Specification		
	Discipline: Chemical					
	Group : Atmospheric Pollution					
	Ambient Air Quality Parameters					
1.	Carbon Monoxide (CO), mg/m3	IS 5182 (Part-10)	BDL (DL: 1.0)	2 Max/5 Max		
m.	Chlorine (Cl ₂), µg/m ³	ITC/CHN/GSOP/044	BDL (DL: 1.0)	30 Max		
n.	Acid Mist (HCI), µg/m3	ITC/CHN/GSOP/044	BDL (DL: 1.0)	70 Max		

: BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters.

*****End Of Report****



Interstellar Testing Centre Private Limited

Piot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennai - 600 096.

Ph: 044 - 24962512

Email: itclabs.chennai@itclabs.com

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TEST REPORT

Test Report No. : ICE-2410040005 (1)

NABL ULR No.: TC695224000016302F



ORIGINAL

Page 1 of 2

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010005

Sample Descriptions

: Ambient Air Monitoring

Received On

:01-10-2024

Sample Location

: Near Ethylene Storage

Commenced On : 01-10-2024

Latitude

: N 10° 50' 52.73"

Completed On

: 04-10-2024

Longitude

: E 079° 50' 20.21"

Date of Report

: 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer References

: Test Request Form/ 28-09-2024

Test Report as per

: NAAQ Norms

Sampling Information

Date of Monitoring	: 27.09.24-28.09.24		
Duration of Monitoring, minutes	: 1440		
Avg. Ambient Temperature, °C	: 32		
Avg. Relative Humidity, %	: 63		
Sky Appearance	: Clear Sky		

S.No.	Parameters	Method	Result	Specification		
	Discipline : Chemical					
	Group : Atmospheric Pollution Ambient Air Quality Parameters					
8.	Sulphur Dioxide (SO2), µg/m3	IS 5182 (Part-2)	7.60	80 Max		
Ъ.	Nitrogen Dioxide (NO2), µg/m3	IS 5182 (Part-6)	18.91	80 Max		
c.	Particulate Matter (PM10), µg/m3	IS 5182 (Part-23)	60.26	100 Max		
d.	Particulate Matter (PM 2.5), µg/m3	IS 5182 (Part-24)	27.86	60 Max		





R. SAKTHIVEL

Assistant Manager Disclaimer: Environment Section

Interstellar Testing Centre Private Limited Plot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennai - 600 096.

Ph: 044 - 24962512

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TEST REPORT



ORIGINAL

Page 2 of 2

Test Report No.: ICE-2410040005 (1) NABL ULR No.: TC695224000016302F

e.	Ozone (O3), µg/m3	IS 5182 (Part-9)	16.22	180 Max
f,	Lead (Pb), µg/m3	IS 5182 (Part-22)	BDL (DL:: 0.02)	1.0 Max
g.	Ammonia (NH3), µg/m3	IS 5182 (Part-25)	7.61	400 Max
h.	Benzene (C6H6),µg/m3	IS 5182 (Part-11)	BDL (DL: 1.0)	5 Max
i.	Benzo (a) Pyrene(Particulate Phase only), ng/m3	IS 5182 (Part-12)	BDL (DL: 1.0)	1 Max
j	Arsenic (As), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	6 Max
k.	Nickel (Ni), ng/m3	USEPA Method IO 3.4	BDL (DL: 2.0)	20 Max

^{&#}x27;4' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters.

*****End Of Report*****





Plot No. 2, S.No. 12/2A, Industrial Estate, Perungudi, Sholinganallur Taluk, Chennai - 600 096.

Ph: 044 - 24962512

Email: itclabs.chennai@itclabs.com

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TEST REPORT

Test Report No.: ICE-2410040005 (2)

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Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010005

Sample Description#

: Ambient Air Monitoring

Received On

: 01-10-2024

Sample Location

: Near Ethylene Storage

Commenced On

: 01-10-2024

Latitude

: N 10° 50' 52.73"

Completed On

: 04-10-2024

Longitude

: E 079° 50' 20.21"

Date of Report

: 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling procedure

: ITC/CHN/GSOP/001

Customer References

: Test Request Form/ 28-09-2024

Test Report as per

: NAAQ Norms

Sampling Information

The state of the s		
Date of Monitoring	: 27.09.24-28.09.24	
Duration of Monitoring, minutes	: 1440	
Avg. Ambient Temperature, °C	: 32	
Avg. Relative Humidity, %	; 63	
Sky Appearance	: Clear Sky	

S.No.	Parameters	Method	Result	Specification
	Discipline : Chemical			
	Group : Atmospheric Pollution			
	Ambient Air Quality Parameters			
1.	Carbon Monoxide (CO), mg/ m3	IS 5182 (Part-10)	BDL (DL 1.0)	2 Max/5 Max
m.	Chlorine (Cl ₂), µg/m ³	ITC/CHN/GSOP/044	BDL (DL 1.0)	30 Max
n.	Acid Mist (HCI), µg/m3	ITC/CHN/GSOP/044	BDL (DL 1.0)	70 Max

^{&#}x27;#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit; 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 with NAAQ norms with respect to the above tested parameters.

*****End Of Report****



Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennai - 600 096.

Ph: 044 - 24962512

Email: itclabs.chennai@itclabs.com

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TEST REPORT

Test Report No. : ICE-2410040011 NABL ULR No.: TC695224000016299F ORIGINAL

Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010011

Sample Description#

: Stack Emission

Received On : 01-10-2024

Sample Location

: CPP - 1 Waste Heat Recovery Boiler

Commenced On : 01-10-2024

Latitude

: N 10° 50' 55.5"

Completed On

: 04-10-2024

Longitude

: E 079° 50' 16.9"

Sample Submission Type

: Sampled by Lab Rep.

Date of Report : 04-10-2024

Sampling Procedure

: ITC/CHN/GSOP/001

Customer Reference*

: Test Request Form /28/09/2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

: 27.09.24

S.No.	Parameters	Method	Result	Specification
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Stack Emission Parameters			
а.	Mercury as Hg. (mg/Nm3)	USEPA Method - 0029	BDL(DL: 0.01)	0.03 Max
ь.	Oxygen as O2 (%)	IS 13270	11.7	Not Available
¢,	Carbon Dioxide as CO2 (%)	IS 13270	7.3	Not Available
d.	Carbon Monoxide as CO (%)	IS 13270	BDL(DL: 0.2)	1 Max
e.	Particulate Matter as PM (mg/Nm3)	IS 11255 (Part-1)	18.15	30 Max
f.	Sulphur Dioxide as SO2 (mg/Nm3)	IS 11255 (Part-2)	24.74	100 Max
g-	Flow Rate (Nm3/hr)	IS 11255 (Part-3)	16566	Not Available
h.	Velocity (m/s)	IS 11255 (Part-3)	9.0	Not Available
L	Stack Temperature (*C)	IS 11255 (Part-3)	182	Not Available
j.	Oxides of Nitrogen as NOx, (mg/Nm3)	IS 11255 (Part-7)	73.14	100 Max

'#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit. Instrument Used: Stack Sampler, Flue gas Analyzer. REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****





Interstellar Testing Centre Private Limited

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TEST REPORT

Test Report No. : ICE-2410040012

NABL ULR No.: TC695224000016298F



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Page 1 of 1

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M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010012

Sample Description#

: Stack Emission

Received On

: 01-10-2024

Sample Location

: CPP - 2 Waste Heat Recovery Boiler

Commenced On : 01-10-2024

Latitude

: N 10° 50' 46.4"

Completed On

: 04-10-2024

Longitude

: E 079° 50' 10.5"

Date of Report : 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer References

: Test Request Form/ 28-09-2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

:27.09.24

S.No.	Parameters	Method	Result	Specification
	Discipline : Chemical		*	
	Group : Atmospheric Pollution			
1.	Stack Emission Parameters			
8,	Mercury as Hg, (mg/Nm3)	USEPA Method - 0029	BDL(DL 0.01)	0.03 Max
b.	Oxygen as O2 (%)	IS 13270	12.6	Not Available
c.	Carbon Dioxide as CO2 (%)	IS 13270	6.5	Not Available
d.	Carbon Monoxide as CO (%)	IS 13270	BDL(DL 0.2)	1 Max
e.	Particulate Matter as PM (mg/Nm3)	IS 11255 (Part-1)	13.71	30 Max
f.	Sulphur Dioxide as SO2 (mg/Nm3)	IS 11255 (Part-2)	16.49	100 Max
g.	Flow Rate (Nm3/hr)	IS 11255 (Part-3)	8611	Not Available
h.	Velocity (m/s)	IS 11255 (Part-3)	8.2	Not Available
i.	Stack Temperature (*C)	IS 11255 (Part-3)	129	Not Available
j.	Oxides of Nitrogen as NOx, (mg/Nm3)	IS 11255 (Part-7)	61.51	100 Max

#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit. Instrument Used: Stack Sampler, Flue gas Analyzer. REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****





R. SAKTHIVEL Assistant Manager

Environment Section

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

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Test Report No.: ICE-2410040013 (1) NABL ULR No.: TC695224000016297F

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Page 1 of 1

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315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010013

Sample Description*

: Stack Emission

Received On

: 01-10-2024

Sample Location

: DG Set 600 KVA (Old)

Commenced On : 01-10-2024

Latitude

: N 10° 50' 51.2"

Completed On

: 04-10-2024

Longitude

: E 79° 50' 17.7"

Date of Report

: 04-10-2024

Sample Submission

: Sampled by Lab Rep. : ITC/CHN/GSOP/001

Type Sampling Customer Reference#

: Test Request Form/ 28-09-2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

:28.09.24

S.No.	Parameters	Method	Result	Specification
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Stack Emission Parameters			
3.	Oxygen as O2 (%)	IS 13270	16.1	Not Available
ь.	Carbon Dioxide as CO2 (%)	IS 13270	3.3	Not Available
¢.	Carbon Monoxide as CO (g/kw-hr)	ITC/CHN/INS/SOP/070	0.32	≤3.5 Max
đ.	Particulate Matter as PM (g/kw-hr)	IS 11255 (Part-1)	0.07	≤0.2 Max
e.	Sulphur Dioxide as SO2 (mg/Nm ³)	IS 11255 (Part-2)	BDL(DL 4.0)	Not Available
f.	Flow Rate (Nm3/hr)	IS 11255 (Part-3)	871	Not Available
g.	Stack Temperature (°C)	IS 11255 (Part-3)	119	Not Available
h.	Velocity (m/s)	IS 11255 (Part-3)	10.2	Not Available
i	Concentration of Oxides of Nitrogen as (NOx as NO2) +	IS 11255 (Part-7)	0.51	1017110
	Hydrocarbon (HC), (g/kw-hr)	USEPA Method - 0025	BDL(DL 0.5)	≤4.0 Max

#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit. Instrument Used: Stack Sampler, Flue gas Analyzer. REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****





R. SAKTHIVEL

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Test Report No. : ICE-2410040013 (2)

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U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010013

Sample Description*

: Stack Emission

Received On

: 01-10-2024

Sample Location

: DG Set 600 KVA (Old)

Commenced On : 01-10-2024

Latitude

: N 10° 50' 51.2"

Completed On

: 04-10-2024

Longitude

: E 79° 50' 17.7"

Date of Report : 04-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Sampling Procedure

: ITC/CHN/GSOP/001

Customer Reference!

: Test Request Form/28-09-2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

: 28.09.24

S.No.	Parameters	Method	Result	Specification
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Stack Emission Parameters			
a.	Smoke Light (Light Absorption Co-Efficient), m-1	Instrument Method	0.2	≤ 0.7

^{&#}x27;#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit. Instrument Used: Stack Sampler, Flue gas Analyzer.

REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****





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Test Report No. : ICE-2410040014 (1) NABL ULR No.: TC695224000016296F

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315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010014

Sample Description*

: Stack Emission

Received On

: 01-10-2024

Sample Location

: DG Set 250 KVA

Commenced On : 01-10-2024

Latitude

: N 10° 50' 47.6"

Completed On

: 04-10-2024

Longitude

: E 79° 50' 10.9"

Date of Report

: 04-10-2024

Sample Submission

: Sampled by Lab Rep.

Type Sampling

: ITC/CHN/GSOP/001

Customer References

: Test Request Form/28/09/2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

:28.09.24

S.No.	Parameters	Method	Result	Specification
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Stack Emission Parameters		1.	
a.	Oxygen as O2 (%)	IS 13270	16.8	Not Available
Ъ.	Carbon Dioxide as CO2 (%)	1S 13270	3.0	Not Available
c.	Carbon Monoxide as CO (g/kw-hr)	ITC/CHN/INS/SOP/070	0.47	≤3.5
d.	Particulate Matter as PM (g/kw-hr)	IS 11255 (Part-1)	0.07	≤0.2
e.	Sulphur Dioxide as SO2 (mg/Nm ³)	IS 11255 (Part-2)	BDL(DL 4.0)	Not Available
f.	Flow Rate (Nm3/hr)	IS 11255 (Part-3)	480	Not Available
8.	Stack Temperature (°C)	IS 11255 (Part-3)	144	Not Available
h.	Velocity (m/s)	IS 11255 (Part-3)	10.6	Not Available
i.	Concentration of Oxides of Nitrogen as (NOx as NO2) +	IS 11255 (Part-7)	0.63	
	Hydrocarbon (HC), (g/kw-hr)	USEPA Method - 0025	BDL(DL 0.5)	≤4.0

represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit. Instrument Used: Stack Sampler, Flue gas Analyzer. REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report*****



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Test Report No. : ICE-2410040014 (2)

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315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010014

Sample Description*

: Stack Emission

Received On

: 01-10-2024

Sample Location

: DG Set 250 KVA

Commenced On : 01-10-2024

Latitude

: N 10° 50' 47.6"

Completed On

: 04-10-2024

Longitude

: E 79° 50° 10.9°

Date of Report

: 04-10-2024

Sample Submission Type Sampling Procedure

: Sampled by Lab Rep. : ITC/CHN/GSOP/001

Customer References

: Test Request Form/ 28/09/2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

: 28.09.24

S.No.	Parameters	Method	Result	Specification
	Discipline : Chemical			
	Group : Atmospheric Pollution			
1.	Stack Emission Parameters			
a.	Smoke Light (Light Absorption Co-Efficient), m-1	Instrument Method	0.3	≤ 0.7

^{&#}x27;#' represents Customer Defined Fields

NOTE: BDL: Below Detection Limit; DL: Detection Limit. Instrument Used: Stack Sampler, Flue gas Analyzer.

REMARKS: The above sample complies with CPCB/PPCB norms with respect to the above tested parameters.

*****End Of Report****



Interstellar Testing Centre Private Limited

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Online Monitoring Data - APR 24 to SEP 24

		<u>Location:</u> 16 number (Maximu	numbers of Chlorine sensors located around the plant Maximum values recorded is given below)	ated around the plant en below)		
Parameters	APR	MAY	NOT	lut	AUG	SEP
Chlorine -ppm	0.01	0.01	0.01	0.01	0.01	0.01





Water Analysis Data - APR 24 to SEP 24

		Location	Location: Desalination Plant (Reject water)	eject water)		
Parameters	APR	MAY	NOT	JUL	AUG	SEP
pH value	7.32	7.49	7.4	7.61	7.6	6.67
DO, mg/L	5.5	5.4	6.1	6.3	5.4	5.6
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 precence
TSS, mg/L	BLQ(LOQ:1.0)	BLQ(L0Q:1.0)	BLQ(L0Q:1.0)	BLO(100:1.0)	RIO(100-10)	RIO(100-10)
Oil & Greece	BLQ(LOQ:0.1)	BLQ(LOQ:0.1)	BLQ(L0Q:0.1)	BLO(100:0.1)	BLO(100-0-1)	RIO(100-0-1)
Hg, mg/L	BLQ(LOQ:0.001)	BLQ(LOQ:0.001)	BLQ(LOQ:0.001)	BLQ(LOQ:0.001)	BLO(100:0.001)	RIO(100-0.01)
Pb, mg/L	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLO(LOQ:0.01)	BLO(100:001)
Cd, mg/l.	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)	BLQ(LOQ:0.01)



* Sample report attached



TEST REPORT

Test Report No. : ICE-2410050017



ORIGINAL Page 1 of 2

Issued To:

M/s.Chemplast sanmar Limited,..

No.315, Melavanjore, Nagore Po, Karaikal Region, U.T of pondicherry

Karaikal, 611002 Poducherry, India

Sample Registration No. : E02-2410010017

Received On

: 01-10-2024

Sample Name

Desalination Reject Water

Commenced On

: 01-10-2024

Sample Condition

: Good

Completed On Date of Report : 05-10-2024 : 05-10-2024

Sample Details (if any)

Sample Quantity

; 5lit X 1 No

: Canned

Packaging Mode Sample Submission Type: Sampled by Lab Rep

Date of Sampling

: 28.09.2024

Environment Condition : Good

Sampling Procedure : ITC/CHN/GSOP/001

Customer Reference : Test Request Form/28/09/2024

Test Report as per : CPCB/PPCC Norms

Descri	ption: Clear Liquid					
S. No.	Parameter	Measuring Unit	Instrument	Method	Result	Specification
	Discipline : Chemical				-2	
	Group : Pollution & Env	ironment				
(I)	General Parameters					
1	Colour	NA	Visual Inspection	Visual Inspection	Clear Liquid	No Noticeable
2	Odour	NA	Organoleptic	IS 3025 (Part-5)	Agreeable	No Noticeable
3	pH @25°C	NA	pH Meter	IS 3025 (Part- 11)	6.67	6.5-8.5
4	Mercury as Hg	rng/L	ICPMS	USEPA 200.8	BLQ(LOQ:0.001)	0.1
5	Total Suspended Solids	mg/L	Balance, Oven, Waterbath	IS 3025 (Part- 17)	BLQ(LOQ:1.0)	None from the Industria Origin
6	Oil and Grease @105°C	mg/L	Balance, Oven, Waterbath	APHA 23rd Edn - 5520 B	BLQ(LOQ:0.1)	0.1
7	Dissolved Oxygen	mg/L	Titration	APHA 23rd ED:2017-4500 O,B,C	5.6	5.0
8	Cadmium as Cd	mg/L	ICPMS	APHA 23rd Edn - 3125 B : 2017	BLQ(LOQ:0.01)	0.1
9	Lead as pb	mg/L	ICPMS	APHA 23rd Eds - 3125 B : 2017	BLQ(LOQ:0.01)	0.1
10	Floating Material	NA	Visual	Visual Examination	No Suspended Particles Presence in the Liquid	No Obnoxious

W.Y.

05/10/2024

Chinnaraja Verified by

05/10/2024 Vijay Anand Authorised by

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennai - 600 096.

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TEST REPORT

Test Report No. : ICE-2410050017



ORIGINAL Page 2 of 2

NOTE: BLQ: Below Limit of Quantification, LOQ: Limit of Quantification.

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

·····End of Report·····

WAA.

05/10/2024 Chinnaraja

Chinnaraja Verified by 05/10/2024 Vijay Anand Authorised by

Interstellar Testing Centre Private Limited

Plot No. 2, S.No. 12/2A, Industrial Estate, Perungudi, Sholinganallur Taluk, Chennai - 600 096. Ph : 044 - 24962512

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Noise Survey Data - APR 24 to SEP 24

		Locatio (Maximu	Location: Around the entire plant area (Maximum values recorded is given below)	int area en below)		
Parameters	APR	MAY	NOr	JUL	AUG	SEP
Day Leg, dBA	65.8	66.5	60.2	57.3	99	61.7
Night Leg, dBA	60.6	53.4	57.6	54.6	56.4	52.9

* Sample report attached







TEST REPORT

Test Report No.: ICE-2410040015

NABL ULR No.: TC695224000016295F

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Page 1 of 1

Issued To

M/s. Chemplast Sanmar Limited

315, Melavanjore, Nagore Post, Karaikal Region,

U.T. of Puducherry, Pincode - 611002.

Sample Registration No.

: E02-2410010015

Sample Description*

: Noise Level Monitoring

Received On

: 01-10-2024

Sample Location

: Ambient

Commenced On : 01-10-2024

Sample Submission Type

: Sampled by Lab Rep.

Completed On

: 04-10-2024

Sampling Procedure

: ITC/CHN/GSOP/001

Customer Reference*

Date of Report

: 04-10-2024

: Test Request Form/28/09/2024

Test Report as per

: CPCB/PPCB Norms

Sampling Information

Date of Monitoring

:27.09.24

S.No.	Location Name	Method	Result	Specification
	Discipline : Chemical			
	Group : Atmospheric Pollution			
a.	ICD Plant-GAIL Station (Day Time), Leq dB (A)	IS 9989	50.4	75 dBA (Max) 06.00am to 10.00pm
b.	ICD Plant-GAIL Station (Night Time), Leq dB (A)	IS 9989	49.3	70 dBA (Max) 10.00pm to 06.00am
¢.	ICD Plant-Near Temple (Day Time), Leq dB (A)	IS 9989	52.7	75 dBA (Max) 06.00sm to 10.00pm
d.	ICD Plant-Near Temple (Night Time), Leq dB (A)	IS 9989	47.9	70 dBA (Max) 10.00pm to 06.00am
e,	PVC Plant-Active SLF (Day Time), Leq dB (A)	IS 9989	48.0	75 dBA (Max) 06.00am to 10.00pm
f.	PVC Plant-Active SLF (Night Time), Leq dB (A)	IS 9989	45.0	70 dBA (Max) 10.00pm to 06.00am
g.	PVC Plant-Old SLF (Day Time), Leq dB (A)	IS 9989	61.7	75 dBA (Max) 06.00am to 10.00pm
h.	PVC Plant-Old SLF (Night Time), Leq dB (A)	IS 9989	51.7	70 dBA (Max) 10.00pm to 06.00am
i.	PVC Plant-Scrap Yard (Day Time), Leq dB (A)	IS 9989	58.5	75 dBA (Max) 06.00am to 10.00pm
j.	PVC Plant-Scrap Yard (Night Time), Leq dB (A)	IS 9989	52.9	70 dBA (Max) 10.00pm to 06.00am

represents Customer Defined Fields

NOTE: Instrument Used: Sound Level meter

REMARKS : The above sample complies with CPCB/PPCB norms with respect to the above tested Parameters

*****End Of Report****



Interstellar Testing Centre Private Limited

Piot No. 2, S.No. 12/2A, Industrial Estate,

Perungudi, Sholinganallur Taluk, Chennal - 600 096.

Ph: 044 · 24962512

Email: itclabs.chennai@itclabs.com

Website: www.itclabs.com

Disclaimer:

> The test result related only to the items tested

Environment Saction > The test report shall not be reproduced in full or part without the written approval of ITC Labs. Chennal

> The test items shall not be retained more than 15 days from the date of issue of test report except in the case as required by the regulatory bodies and Customers

Assistant Manager







Employee Name : Mr.PRAKASH K

Employee Hos_ID: HOSCONS33579

Age/Sex : 29.0Yrs / Male

Employee_ID

: KP529

Department : PRODUCTION

SID No

: 134846

Received On : 03-11-2023/03:34 PM

Printed On : 08-11-2023/03:53 PM

Mobile No

:8344566751

Report Status : Final

cpontinent		11011	neport visito (KP52		
Year			AN	THROPOME	TRIC DAT	Α			Marine,	
Height	154-Cm	Weight	58-Kg	BMI	24.5	8P	110/70mm Hg	Pulse	68/min	
			F	REPORTS EN	CLOSED					
Blood Report	Norn	nal	X-Ray Normal							
				GENERAL A	DVICES					
Eat green, leafy v Drink Three litres			and collards							
				FITNESS ST	ATUS					
Drink Three litres			end corrards	FITNESS ST	'ATUS					

Dr. S. VIGNESHWARAN, MBBS, AFIH General Physician HOSCONS Healthcare India Pvt Ltd Reg. No. 147120













Employee Name : Mr.PRAKASH K

Employee Hos_ID: HOSCONS33579

Age/Sex

: 29.0Yrs / Male

Employee_ID : KP529

Department : PRODUCTION

SID No

: 134846

Received On : 03-11-2023/03:34 PM

Printed On : 08-11-2023/04:37 PM

Mobile No : 8344566751

Report Status : Final

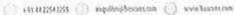
TEST NAME	RESULT	UNIT	NORMAL RANGE
			1348
HAEMATOLOGY			
HAEMOGLOBIN	14.3	gm/dl	Male : 13.5 - 18.0 gm/dl Female : 11.5 - 16.4 gm/dl
PCV	39.03	%	40 - 65 %
TOTAL WBC COUNT	8520	Cells/cmm	4,500 - 11,000 Cells/cmm
RBC COUNT	4.38	Mill/Cmm	4.35 - 5.65 Mill/Cmm
MCV	89	fL	76 - 96 fL
MCH	32.6	pg	27 - 32 pg
MCHC	36.6	gm%	30 - 35 gm%
PLATELET COUNT	3.07	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm
NEUTROPHILS	55	%	40.0 - 80.0
YMPHOCYTES	41	%	20.0 - 40.0
OSINOPHILS	2	%	1.0 - 6.0
MONOCYTES	2	96	2.0 - 10.0
BIOCHEMISTRY			
BLOOD SUGAR (RANDOM)	100	mm/dl	80 - 140 mm/dl
BLOOD UREA	24	mgs/dl	10-40 mgs/dl
BUN	11.2	mgs/dl	5 21 mgs/dl
S. CREATININE	0.8	mg/dl	0.6 - 1.2 mg/dl
LIVER FUNCTION TEST			
BILIRUBIN - TOTAL	0.9	mg/dL	0.1 - 1.2 mg/dL
BILIRUBIN - DIRECT	0.5	mg/dL	0 - 0.3 mg/dL
BILIRUBIN - INDIRECT	0.4	mg/dl	0.2 - 0.8 mg/dl
G.G.O.T	24	U/L	5.0 • 40.0
.G.P.T	20	U/L	7 to 56
LKALINE PHOSPHATASE	85	U/L	44 to 147
PROTEIN	7.0	gms/d1	6.0 - 8.7
ALBUMIN	3.9	gms/dl	3.2 to 5.0
GLOBULIN	3.1		2 - 3.5
A G RATIO	1.3		

**** End of Report ****

Lab Technician

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



















Employee Name : Mr.PRAKASH K

Employee Hos_ID: HOSCONS33579

Age/Sex

: 29.0Yrs / Male

Employee_ID

: KP529

Department : PRODUCTION

SID No

: 134846

Received On : 03-11-2023/03:34 PM

Printed On : 08-11-2023/03:53 PM

Mobile No

:8344566751

Report Status : Final

X- RAY CHEST PA VIEW

The lungs fields are clear

The cardio thoracic ratio is within normal limits.

The apices, Costo and Cardiophrenic angles are free.

The cardio vascular shadow and Hilar shadow no abnormal

feature. The bony thorax shows no significant abnormality.

Both domes of diaphragm appear normal.

IMPRESSION: NORMAL STUDY

Dr. C. G. Durairajan,

M.D DMR

Consultant Radiologist Reg. No: 15066







PRAKASH K/29YRS 134846 03-11-2023
HOSCONS HEALTHCARE

RECORDERS & MEDICARE SYSTEMS

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

Patient: KPrakash

Refd.By:

Pred.Eqns: RECORDERS

: 11-06-2024 07:25 PM

Age : 29 Yrs

Height: 152 Cms

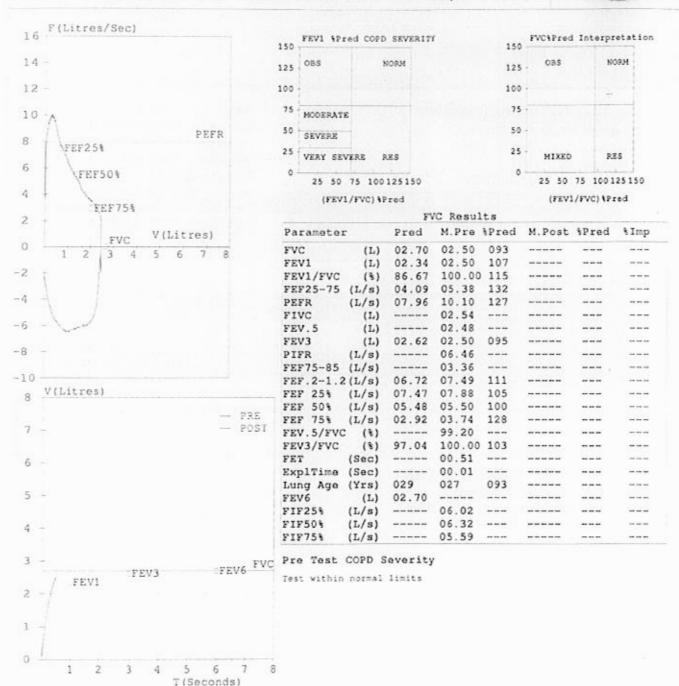
Weight: 48 Kgs ID : 36

Gender : Male Smoker : No

7епр

Eth. Corr: 100





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

Dr.B.S. Dir Fervillikumar Reg.No: M4225

mer/manus. Festery Medical Official Chemplest Sanmar Lic. Karsalaa







Imployee Name ; Mr.JAYACHANDRAN C

Employee Hos_ID: HOSCONS33606

Age/Sex

: 35.0Yrs / Male

Employee_ID

: CJ2

SIDNo : 134873

Received On : 04-11-2023/07:11 AM

Printed On : 08-11-2023/04:08 PM

Mobile No

:9865131541

Report Status : Final

: PRODUCTION Department CIZ ANTHROPOMETRIC DATA 88/min BMI 28.1 120/80mm Hg Pulse 172-Cm Weight 83.1-Kg Height REPORTS ENCLOSED Blood Report Normal X-Ray Normal **GENERAL ADVICES** * Eat green, leafy vegetable such as spinach, and collards Drink Three litres of water daily **FITNESS STATUS** Mr. JAYACHANDRAN C is medically examined and found to be normal.

Dr. S. VIENESHWARAN, MBBS, AFIH General Physician HOSCONS Healthcare India Pvt Ltd Reg. No. 147120







Employee Name : Mr. JAYACHANDRAN C

Employee Hos_ID: HOSCON\$33606

Age/Sex

: 35.0Yrs / Male

Employee_ID : CJ2

Department : PRODUCTION

SID No

: 134873

Received On : 04-11-2023/07:11 AM

Printed On : 08-11-2023/04:43 PM

Mobile No : 9865131541

Report Status : Final

TEST NAME	RESULT	UNIT	NORMAL RANGE	
			13487	
HAEMATOLOGY				
HAEMOGLOBIN	16.7	gm/dl	Male : 13.5 • 18.0 gm/dl Female : 11.5 • 16.4 gm/dl	
PCV	46.82	%	40 - 65 %	
TOTAL WBC COUNT	7270	Cells/cmm	4,500 - 11,000 Cells/cmm	
RBC COUNT	4.88	Mill/Cmm	4.35 - 5.65 Mill/Cmm	
MCV	96	fL	76 - 96 fL	
MCH	34.2	pg	27 - 32 pg	
MCHC	35.6	gm%	30 - 35 gm%	
PLATELET COUNT	2.78	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm	
NEUTROPHILS	70	%	40.0 - 80.0	
LYMPHOCYTES	25	96	20.0 - 40.0	
EOSINOPHILS	2	%	1.0 - 6.0	
MONOCYTES	3	%	2.0 - 10.0	
BIOCHEMISTRY				
BLOOD SUGAR (RANDOM)	109	mm/dl	80 - 140 mm/dl	
BLOOD UREA	15	rngs/dl	10 - 40 mgs/dl	
BUN	7	mgs/dl	5-21 mgs/dl	
S. CREATININE	0.6	mg/dl	0.6-1.2 mg/dl	
LIVER FUNCTION TEST				
BILIRUBIN - TOTAL	0.6	mg/dL	0.1 - 1.2 mg/dL	
BILIRUBIN DIRECT	0.4	mg/dL	0 - 0.3 mg/dL	
BILIRUBIN INDIRECT	0.2	mg/dl	0.2 - 0.8 mg/dl	
G.O.T	15	U/L	5.0 - 40.0	
.G.P.T	19	U/L	7 to 56	
LKALINE PHOSPHATASE	63	U/L	44 to 147	
PROTEIN	7.3	gms/dl	6.0 - 8.7	
ALBUMIN	4.1	gms/dl	3.2 to 5.0	
LOBULIN	3.2		2 - 3.5	
G RATIO	1.3			

**** End of Report ****

Lab Technician

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















Enployee Name : Mr.JAYACHANDRAN C

Enployee Hos_ID; HOSCONS33606

Ale/Sex

: 35.0Yrs / Male

Enployee_ID

: CJ2

Dipartment : PRODUCTION :134873

Received On : 04-11-2023/07:11 AM Printed On : 08-11-2023/04:08 PM

Mobile No :9865131541

Report Status : Final

X- RAY CHEST PA VIEW

The lungs fields are clear

The cardio thoracic ratio is within normal limits.

The apices, Costo and Cardiophrenic angles are free.

The cardio vascular shadow and Hilar shadow no abnormal

feature. The bony thorax shows no significant abnormality.

Both domes of diaphragm appear normal.

IMPRESSION: NORMAL STUDY

Dr. C. G. Durairajan,

Consultant Radiologist

Reg. No: 15066







JAYACHANDRAN C 35YRS 134873 HOSCONS HEALTHCARE

04411-2023

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

ID : 88

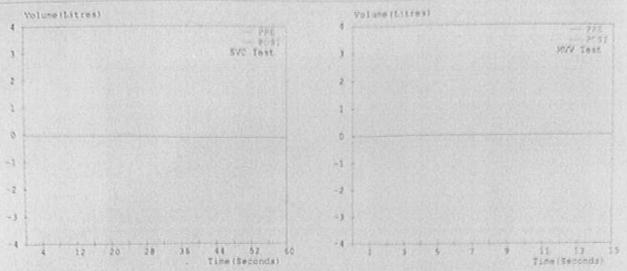
Age : 36 Yrs 02 Mths Gender Height : 170 Cms Smoker Weight : 82 Kgs Eth. Co

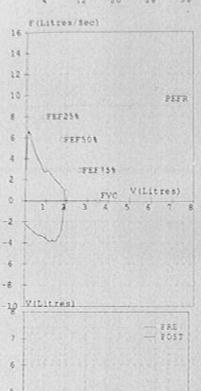
: Male Smoker : No

Eth. Corr: 100

Temp







CFEV1

2

Parameter	Pred	MIFEE	17 red	M.Post	AFEAS	Simp
FVC (L)	03.51	01.92	635		7.12	
TEVI (L)	02.91	01.92	685	5000	1220	
EV1/FVC (4)	82.91	100.00	151	20000	2100	
EE25-75 (L/s)	04.12	92.35	569	PALLE.		
EFR (L/s)	08.99	06.53	673			
(L) OVE		02.37	301		1223	
EV.5 (L)		01.59	320	00000	442	
EV3 (L)	03.40	01.92	655			1000
PIFR (L/s)	12111	03.85		01000	-	
EF75-85 (L/s)		01.67				
EF.2-1.2(L/s)	07.16	03.50	645		-44	
FEF 25% (L/s)	07.96	04.48	655			
FEF 50% (L/s)	05.74	02.69	047	12222		
FEF 75% (L/s)	02.88	02.00	659			
EV.5/FVC (4)	*****	82.81	253			154
EV3/FVC (%)	96.87	100.00	103		(444)	
EI (Sec)		00.27	leen.			
xplTime (Sec)		00.02			+++	
ung Age (Yrs)	036	048	133			
EV6 (L)	03.51					
1F 25% (L/s)		03.43			444	104
IE 50% (L/s)	1	02.71		200	1500	
IF 75% (L/s)		01.34	4.00	127175	STILL	FERE
VC (L)			120			1944
RV (L)	01:42		122-	****	513	
IRV (L)						1200
E (L/min)			***			
(1/min)						
i (sec)			ART.			
e (sec)						1000
T (L)						2-44
7/11						Tree
i/Ttot			***	*****		
(C) (L)						
VV (L/min)	136	57727				
Rf (1/min)			men.			
IVI (L)			THE ST			115

Doctor's Notes Spirometry within normal limits.

> Dr.B. SENTINI Respectationar

Factory Madical Officer MIRITAN INCHEMBRAST SAIMAP DECEMBER

Karaikar

T(Seconds)

FEVSFVC





Employee Name : Mr.JOHN ANAND ANTONY L

Employee Hos_ID: HOSCONS33587

Age/Sex : 45.0Yrs / Male

Employee_ID

: LJ501

Department : PRODUCTION

SID No

: 134854

Received On : 03-11-2023/04:50 PM

Printed On : 08-11-2023/03:56 PM

Mobile No

:9894923005

Report Status ; Final

11501

epartment , mosocnon									
			AN	THROPOME	TRIC DAT	Α			
Height	177-Cm	Weight	88-Kg	BMI	28.1	8P	120/80mm Hg	Pulse	78/min
			F	REPORTS EN	CLOSED				
Blood Report	Norn	nal	X-Ray	Normal					
		1 110		GENERAL A	DVICES				
Eat green, leafy Orink Three litre			, and collards						
				FITNESS ST	ATUS	100			
Mr. JOHN ANAND	ANTONY L	is medically o	xamined and	found to be n	ormal.		3710	DITTE	

Dr. S. VIGNESHWARAN, MBBS, AFIH General Physician HOSCONS Healthcare India Pvt Ltd Reg. No. 147120

















Employee Name : Mr.JOHN ANAND ANTONY L

Employee Hos_ID: HOSCONS33587 : 45.0Yrs / Male

Age/Sex

Employee_ID : U501
Department : PRODUCTION

: 134854 SIDNo

Received On : 03-11-2023/04:50 PM Printed On : 08-11-2023/04:38 PM

Mobile No : 9894923005

Report Status : Final

Department : PRODUCTION		Report Stat	us : Final
TEST NAME	RESULT	UNIT	NORMAL RANGE
			134854
HAEMATOLOGY			
HAEMOGLOBIN	16.5	gm/dl	Male : 13.5 - 18.0 gm/dl Female : 11.5 - 16.4 gm/dl
PCV	46.78	%	40 - 65 %
TOTAL WBC COUNT	7660	Cells/cmm	4,500 - 11,000 Cells/cmm
RBC COUNT	5.06	Mill/Cmm	4.35 - 5.65 Mill/Cmm
MCV	92	fL	76 - 96 fL
MCH	32.7	DR	27 - 32 pg
MCHC	35.3	gm%	30 - 35 gm%
PLATELET COUNT	2.51	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm
NEUTROPHILS	65	96	40.0 - 80.0
LYMPHOCYTES	27	%	20.0 - 40.0
EOSINOPHILS	3	%	1.0 - 6.0
MONOCYTES	5	%	2.0 - 10.0
BIOCHEMISTRY			
BLOOD SUGAR (RANDOM)	123	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	0.8	mg/dl	0.6-1.2 mg/dl
LIVER FUNCTION TEST			
BILIRUBIN - TOTAL	0.7	mg/dL	0.1 - 1.2 mg/dL
BILIRUBIN - DIRECT	0.3	mg/dL	0 - 0.3 mg/dL
BILIRUBIN - INDIRECT	0.4	mg/d1	0.2 - 0.8 mg/dl
S.G.O.T	24	U/L	5.0 - 40.0
S.G.P.T	28	U/L	7 to 56
ALKALINE PHOSPHATASE	78	U/L	44 to 147
T.PROTEIN	7.3	gms/dl	6.0 - 8.7
SALBUMIN	4.1	gms/dl	3.2 to 5.0
GLOBULIN	3.2		2 - 3.5
A G RATIO	1.3		

**** End of Report ****

Lab Technician

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















Employee Name : Mr. JOHN ANAND ANTONY L

Employee Hos_ID: HOSCONS33587

Age/Sex

: 45.0Yrs / Male

Employee_ID : LJ501 Department

: PRODUCTION

SID No

: 134854

Received On : 03-11-2023/04:50 PM

Printed On : 08-11-2023/03:56 PM

Mobile No : 9894923005

Report Status ; Final

X- RAY CHEST PA VIEW

The lungs fields are clear

The cardio thoracic ratio is within normal limits.

The apices, Costo and Cardiophrenic angles are free.

The cardio vascular shadow and Hilar shadow no abnormal

feature. The bony thorax shows no significant abnormality.

Both domes of diaphragm appear normal.

IMPRESSION: NORMAL STUDY

Dr. C. G. Durairajan,

M.D DMR

Consultant Radiologist Reg. No: 15066



JOHN ANAND ANT 45YRS 154854 03411/2023
HOSCONS HEALTHCARE

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 Date

Age

ID

: 45 Yrs Height: 175 Cms

Weight: 82 Kgs

: 14

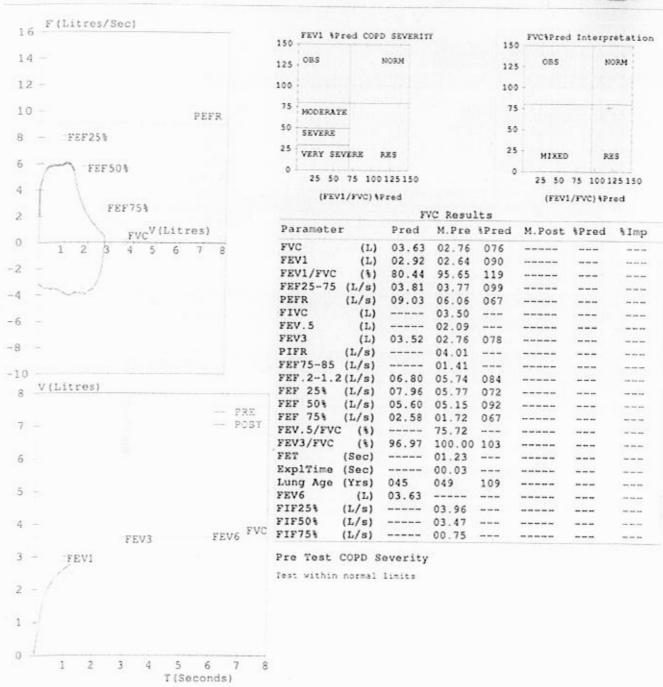
Gender Smoker

: Male : No

Eth. Corr: 100

Temp





Doctor's Notes Spirometry within normal limits.

> Facioty Modical Officer TSHMAPCHES !!!

Karsikui





Employee Name : Mr.ROBINS V

Employee Hos_ID; HOSCONS33597

Age/Sex

Employee_ID

: NAPS

: 31.0Yrs / Male

SID No

: 134864

Received On : 03-11-2023/09:33 PM

Printed On : 08-11-2023/04:05 PM

Mobile No

:8072777185

Report Status : Final

partment	, iomitti			-	and the same	100			
	EN SAVEL S		AN	HROPOM	ETRIC DAT	A			SAME IN
Height	163-Cm	Weight	78-Kg	BMI	29.4	BP	120/80mm Hg	Pulse	74/min
			F	EPORTS E	VCLOSED				
Blood Report	Norn	nal	X-Ray	Normal					

GENERAL ADVICES

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

FITNESS STATUS

Mr. ROBINS V is medically examined and found to be normal.

Dr. S. VIGNESHWARAN, MBBS, AFIH General Physician HOSCONS Healthcare India Pvt Ltd Reg. No. 147120













Employee Name : Mr.ROBINS V

Employee Hos_ID: HOSCONS33597

Age/Sex Employee_ID : NAPS

: 31.0Yrs / Male

Department : TONNER

SID No

: 134864

Received On : 03-11-2023/09:33 PM

Printed On : 08-11-2023/04:41 PM

Mobile No

:8072777185

Report Status : Final

TEST NAME	RESULT	UNIT	NORMAL RANGE
			134864
HAEMATOLOGY			
HAEMOGLOBIN	16.5	gm/dl	Male : 13.5 - 18.0 gm/dl Female : 11.5 - 16.4 gm/dl
PCV	45.62	56	40 - 65 %
TOTAL WBC COUNT	7160	Cells/cmm	4,500 - 11,000 Cells/cmm
RBC COUNT	5.03	Mill/Cmm	4.35 - 5.65 Mill/Cmm
MCV	91	fL	76 - 96 fL
MCH	32.8	pg	27 - 32 pg
MCHC	36.2	gm%	30 - 35 gm%
PLATELET COUNT	2.55	Lakhs / cmm	1.5 - 4.5 Lakhs cells/mm
NEUTROPHILS	49	96	40.0 - 80.0
LYMPHOCYTES	45	%	20.0 - 40.0
EOSINOPHILS	2	96	1.0 - 6.0
MONOCYTES	4	%	2.0 - 10.0
BIOCHEMISTRY			
BLOOD SUGAR (RANDOM)	104	mm/dl	80 - 140 mm/dl
BLOOD UREA	28	mgs/dl	10 - 40 mgs/dl
BUN	13.1	mgs/dl	5 - 21 mgs/dl
S. CREATININE	1.0	mg/dl	0.6 - 1.2 mg/dl
LIVER FUNCTION TEST		272,875,770	112 113,51
BILIRUBIN - TOTAL	0.7	mg/dL	0.1 - 1.2 mg/dL
BILIRUBIN - DIRECT	0.3	mg/dL	0 - 0.3 mg/dL
BILIRUBIN - INDIRECT	0.4	mg/d1	0.2 - 0.8 mg/dl
5.G.O.T	17	U/L	5.0 - 40.0
S.G.P.T	27	U/L	7 to 56
ALKALINE PHOSPHATASE	71	U/L	44 to 147
PROTEIN	7.5	gms/dl	6.0 - 8.7
ALBUMIN	4.3	gms/dl	3.2 to 5.0
GLOBULIN	3.2	Same	2 - 3.5
A G RATIO	1.3		W. 3556

**** End of Report ****

Lab Technician

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















Employee Name : Mr.ROBINS V

Employee Hos_ID: HOSCONS33597

Age/Sex

: 31.0Yrs / Male

Employee_ID

: NAPS

Department

: TONNER

SID No

: 134864

Received On : 03-11-2023/09:33 PM

Printed On : 08-11-2023/04:05 PM

Mobile No

:8072777185

Report Status : Final

X- RAY CHEST PA VIEW

The lungs fields are clear

The cardio thoracic ratio is within normal limits.

The apices, Costo and Cardiophrenic angles are free.

The cardio vascular shadow and Hilar shadow no abnormal

feature. The bony thorax shows no significant abnormality.

Both domes of diaphragm appear normal.

IMPRESSION: NORMAL STUDY

Dr. C. G. Durairajan, M.D DMR

Consultant Radiologist

Reg. No: 15066





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

ID

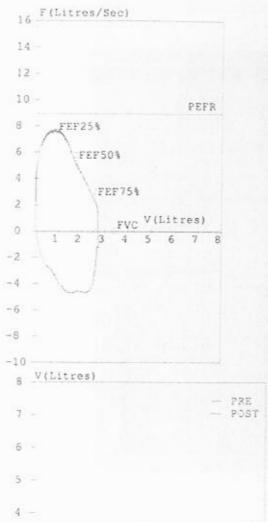
Age : 32 Yrs Height : 167 Cms Weight : 78 Kgs

: 127

Gender : Male Smoker : No Eth. Corr: 100

Тепр





FEV1 APred COPD SEVERITY	150	VC1Pred In	terpretatio
OBS NORM	125	038	мояи
	100 -		
MODERATE	75 -		-
SEVERE	50		
VERY SEVERE RES	25	MIXED	RES
25 50 75 100125150	0	25 50 75	100 125 150
(FEV1/FVC) %Pred		(FEV1/FV	(C) tPred

FVC Results									
Parameter	r	Pred	M.Pre	%Pred	M.Post	%Pred	% Imp		
FVC	(L)	03.41	02.72	080					
FEV1	(L)	02.88	02.72	094					
FEV1/FVC	(%)	84.46	100.00	118					
FEF25-75	(L/s)	04.24	06.02	142					
PEFR	(L/s)	08.92	07.68	086					
FIVC	(L)		02.65						
FEV.5	(L)		02.59						
FEV3	(L)	03.31	02.72	082					
PIFR	(L/s)		04.66						
FEF75-85	(L/s)		03.47						
FEF. 2-1.2	(L/s)	07.28	07.19	099					
FEF 25%	(L/s)	07.94	07.66	096					
FEF 50%	(L/s)	05.78	06.64	115					
FEF 75%	(L/s)	03.01	04.13	137			-		
FEV.5/FVC	(1)		95.22						
FEV3/FVC	(%)	97.07	100.00	103					
FET	(Sec)		00.58						
ExplTime	(Sec)		00.04				555		
Lung Age	(Yrs)	032	034	106			100.00		
FEV6	(L)	03.41							
FIF25%	(L/s)		04.63						
FIF50%	(L/s)		04.62						
FIF75%	(L/s)		03.22						

FEV3 FEV6 FVC FEV1 2 5 6 T (Seconds)

Pre Test COPD Severity

Test within normal limits

Doctor's Notes Spirometry within normal limits.

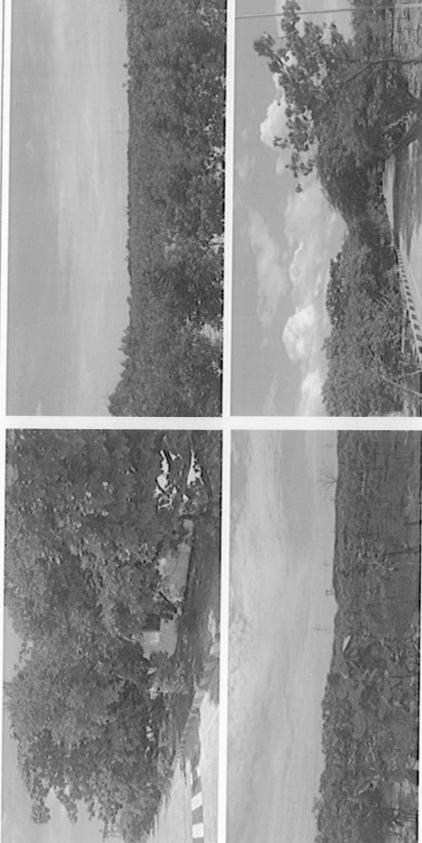
senthilkumar

R
ROBINS V31YRS 134864 03-11/2023
HOSCONS HEAUTHCARE









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 / फैक्स 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/To.

PIN: 600086

M/S. CHEMPLAST SANMAR LIMITED. 9, CATHEDRAL ROAD, Parthasarathypuram, Teynampet, Chennai, Chennai, Taluka: Chennai. District: CHENNAI. State: Tamil Nadu

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 हेतु उपरोक्त नियम के नियम 55 के प्रावधानों का पालन किया जाएं । विलंब शुक्क से बचने हेतु शुक्क के साथ मूल अनुज़प्ति 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 ।/Please acknowledge the receipt of the licence.

भवदीय/Yours faithfully,

((डा.डी.जीवारत्नम) (Dr. D. Jeevarathinam)) उप विस्फोटक नियंत्रक Dy. Controller of Explosives कते संयुक्त मुख्य विस्फोटक नियंत्रक For Jt. Chief Controller of Explosives चेन्नै/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 दाव पात्र या पात्रों में संपीड़ित गैस भण्डारकरण के लिए अनुरूप्ति

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.

	Name of Gas/ गैस का नाम	State of Gas/ गैस की स्थिति	Water Capacity in cubic meter/ जल क्षमता (घ.मी.)	2	Quantity Granted in kgs(Liquified gas)/किलोग्रॅम में जारी मात्रा (लिक्विफाईड गैसेस)
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		1
22-T-01E	CHLORINE	Liquified	42.00		47880
To	otal Water capa	city	211.50		

August 27, 2003

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

Amendment dated - 19/07/2006
 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 इसमें 5 वेसल सम्मिलित है।

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

b) Non-Toxic Gases :/अविधैली गैसों :

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

ाप्लाट संख्या PlotNo : In the plant, गांव 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	अनुरूप्ति की समाप्ति की तारीख	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. अनुइप्ति, भारतीय विस्फोटक अधीन अधीन बनाए गए स्थिर एवं गतिशील दाव पात्र (अज्वेलित) नियम, 2016 या इस अनुइप्ति की शतों 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 /पदि 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 अवधि 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 विस्कोटक सुरक्षा संगठन (पैसो)

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

A & D - Wing, Block 1-8, IInd Floor, Shastri Bhavan, 26 Haddous 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)

सेवा में /To,

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

Taluka: Karaikal, District: KARAIKAL, State: Pondicheri PIN: 611002

विध्य Plot No, S. No. 39/3, 315,MELAVANJORE VILLAGE, NAGORE POST-611002,KARAIKAL REGION,PUDUCHERRY UT, Melavanjore /Sub : Village, TR. Pattinam Panchayat, Nagor, Karaikal, Taluka: Karaikal, District: KARAIKAL, State: Pondicheri, PIN: 611002 में स्थित विद्यमान पेट्रोलियम वर्ग B,C अधिष्ठापन में अनुज्ञाप्ति 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 दिनांक 26/11/2022 का अवलोकन करें । Please refer to your letter No.: OIN1215207, dated 26/11/2022

अनुहप्ति संख्या P/HQ/PY/15/524 (P163312) दिनांक 26/04/2022 को दिनांक 31/12/2027 तक नवीनीकृत कर इस पत्र के साथ अग्रिषत 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 वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व Jt. Chief Controller of Explosives, South Circle Office, Chennai कार्यात्म 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.एस.धनुसिंगम) (Dr. T. L. THANULINGAM)) उप मुख्य विस्फोटक निपंत्रक Dy. Chief Controller of Explosives कृते संयुक्त मुख्य विस्फोटक निपंत्रक 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)

नदीनीकरण के पृष्ठांकन के तिए स्थान SPACE FOR ENDORSEMENT OF RENEWALS

पेट्रॉलियन अधिनेयम, १९६४ के उपबन्धी या उनके अधीन बनाए गर् नियमी था इस अनुहारित की घर्जी का उत्तरंपन न होने की दशा में यह अनुहारित किस में बिना किसी छुट के दश वर्ष तक नवीकृत की जा सकेगी। This licence shall be renewable without any concession in fee for ten years in the absence of confravention of any provisions of the Petroleum Act, 1934 or of the rules framed thereunder or of any of the conditions of this licence.	পরীক্ষণ কী নাহীয় Date of Renewal	समाजि की तारीन 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

पदि अनुस्थि परिसर इसमें उपाबद्ध विवरण और सर्जी के अनुरूप नहीं पाए जाते हैं और दिन नियमों और सर्जी के अधीन यह अनुस्थि मंदर की गई है उनमें से किसी का उत्तरपन होने की दसा में यह अनुस्थित रह की जा सकती है और अनुस्थित होंग का अधार पर अनुस्थित रह की जा सकती है, जो एक हज़र रूपये तक हो सकता है, या दोनों से और प्रतेक पश्चावर्जी अपराध के लिए साधारण कारावास से जो तीन मास तक हो सकता है, या यूगोंने से, जो पांच हजार रूपये तक हो सकता है, या दोनों से, जो पांच हजार रूपये तक हो सकता है, या दोनों से, दण्डनीय होगा।

This licence is lable to be cancelled if the licenced premises are not found conforming to the description given on the approved plan allacthed hereto and contravention of any of the nules and conditions under which this licence is granted and the holder of this licence is also punishable for the first offerce with simple imprisonment which may be extend to one month, or with fine which may extend to one thousand rupees, or with both and for every subsequent offence with simple imprisonment which may extend to three months, or with fine which may extend to five thousand rupees or with both.

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

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

अधिष्ठापनों में पेट्रोतियम के आयात और भंडारकरण के लिए अनुहास्ति LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुहारित 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 पथा 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 28/04/2022 जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुशक्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुशक्ति अनुदत्त की जाती हैं।

Licence is hereby granted to M/s. M/s. Chemplast Sanmar Limited, PVC Division, Karaikal Plant, Metavanjore 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 अनुहस्ति 31st day of December 2027 तक प्रवृत रहेगी । The Licence shall remain in force till the 31st day of December 2027

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

July 9, 2007

For Chief Controller of Explosives HQ, Nagour

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

अनुप्तापित परिसर जिसकी विन्यास सीमाएं अन्य विशिष्ट्यां संलग्न अनुमोदित नक्यों 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.

Note:-This is system generated document does not require

signature.

^{1).} Amendment dated - 26/04/2022





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-01/2024-25. 25th September 2024

The Inspector of Factories, Karaikal.

Dear Sir

SUB: Submitting the Report of Mock drill conducted and Pressure vessel ET in Form 8

We are herewith submitting Report of "On site emergency - mock drill" conducted in our plant on 29.08.2024 and pressure vessel ET in form 8

Kindly acknowledge the receipt of the same.

Thanking you and assuring our best cooperation at all time.

Yours faithfully, For Chemplast Sanmar Limited

Sr. Vice president - Operations.

Office of the Inspector of Factories

Perenthalsiver Kemarajar Administrative Comple Nagore Road, Karaikal.

Read 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: 29.08.2024
- 3. Mock drill Started:15:00Hrs

Mock Drill Ended:16:00 Hrs

4. Assumed emergency scenario:

Ethylene pump suction MOV (Motor operated valve) upstream pipeline Crack.

5. No. of Observers: 05

Internal Observers & their Locations:

Internal Observers and Locations	1. S Selvaganesh - C2 CCR
	2.Mr B C Krishna Kumar- OHC
	3.Mr. M V Silambarasan - Security Gate
	4.S.Vishwanathan – E C C
·	5.P Dhandapani –Safe Assembly point

6. External Observer details (if any):

1. Mr.Senthil kumar-Incident Site (DSS+)

7. Objectives of the mock drill:

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



8. Description of Emergency Scenario:

S.No	Sequence of Activities	Time Hrs
1.	Field observer Mr. Robinson marco identifies the leak due to crack in ethylene pump suction MOV (Motor operated valve)upstream pipeline.	14:58
2		15:00
3	Field officer informed to the Control room officer about the crack in ethylene pump upstream pipeline	15:00
	The Control room officer informed to Work Incident Controller (WIC), Incident controller and shift in charge about the situation. Immediately WIC instructed Incident controller to inspect and report about the situation.	15:01
3	Incident Controller and Shift-in-charge reached the workplace and reported the situation to the Works main controller.	15:02
9	After discussing with Incident controller, Emergency was declared by the works main controller (Site Head).	15:02
	Control room engineer Mr. Karunanithi activated siren and also announced continuously about emergency in Regional language and English through public addressing system.	15:04
	EDC plant initiated to Safe Shutdown and plant stopped safely. All Maintenance work safely suspended, it was verified by emergency support eam	15:06
í í	The Incident controller directed the Task force team to attend the crack and eak in ethylene pump suction upstream pipeline and also instructed fire ighting team to activate the water curtain and fire monitor of C2 tank for educing the spread of vapor in adjacent sides	15:07
W	Mock evacuation of the employees and contract workers were carried out. Head count also carried out as part of the Mock Drill	15:08
v Ii	Mr. Elayaraja -Security guard lost his consciousness as due to ethylene apor cloud at the work place and fall down near the Pump area. mmediately the message communicates to OHC and asks FMO to send the first aid coordinator to the spot with ambulance.	5:08

12	Mean while, All contractors and employees were assembled in assembly point and head count was matched with attendance.	15:09
13	Ambulance reached the C2 area and Medical Emergency Support crew lifted the victim.	15:11
14	Ambulance reached back to OHC.	15:13
15	After arresting the leak from the crack, communication sent to the ECC and sent the Area protection coordinator to access the incident spot.	15:10
16	After VOC monitoring throughout the incident spot and getting clearance from the Area protection coordinator, the situation was explained to the ECC.	15:12
17	Treatment was provided to victim by Factory medical officer. The Emergency response team and works main controller reached the incident spot and OHC for access the situation.	15:15
18	The "All clear signal" was declared by WMC after ascertaining the situation by a long siren for 60 seconds.	15:16
19	Post-Mock drill debriefing meeting.	15:18
20	All return back to work spot.	15:20
21	Mock Drill ended	15:20

9. Head Count Details:

The head count was tallied.

Total No. of persons assembled in the assembly points	162
No. of persons retained in the respective sections for Maintaining production	121

10. Observations & Recommendations from observers:

Positives;

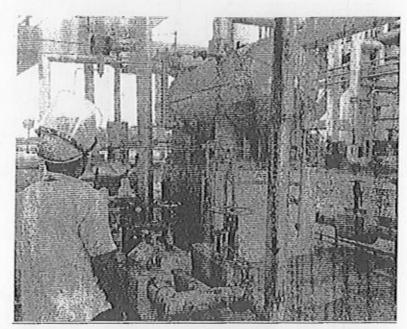
- Experienced manpower to handle the emergency
- · Availability of required infrastructure & resources
- Fire hydrant system Good Working condition
- Quick response and Coordination of ERT
- Clear Communication received from Emergency Control Center.

MELAVAHADRA 20

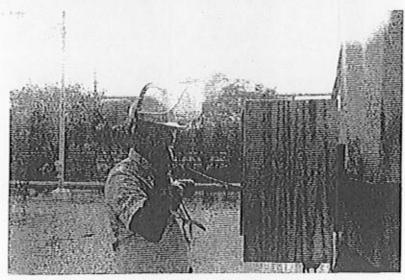
Area of improvement in the Incident location:

- Paging system was inaudible in Desalination plant
- Additional observers to be placed in remaining Assembly points.

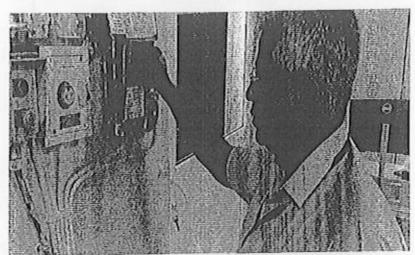
Mock drill Photos



Field Officer identifies leak in Ethylene pump suction mov (Motor operated valve) upstream pipeline



Field officer informs to the Control room engineer about the leak due to crack in Ethylene pump suction mov (Motor operated valve) upstream pipeline



Emergency Siren Wailing by Control Room Officer

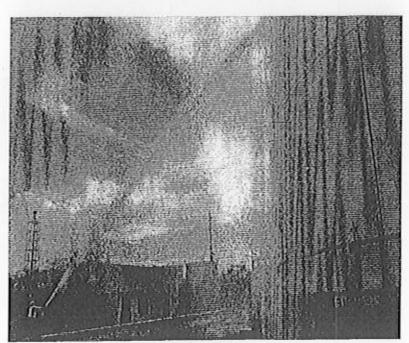


Incident Controller and Shift In charge arrived the incident spot



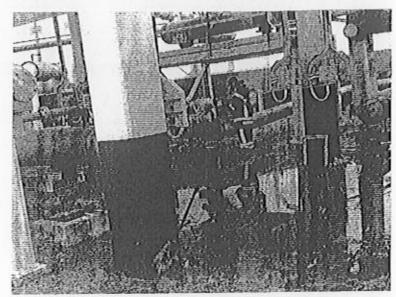


Task Force team controlled the vapor spreading to adjacent side by water monitor system



Water Curtain and Fire Monitor turned on in the Ethylene tank to vapor spreading to adjacent side



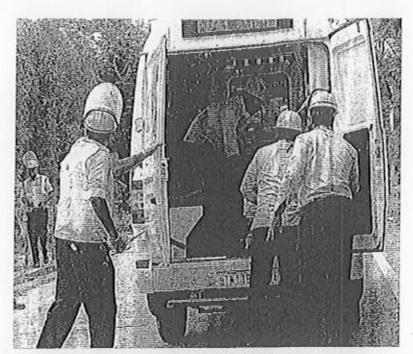


Task force team controlled and stopped the leak



One Victim found unconsciousness due to cold burn near C2 Entrance





Ambulance reached the incident spot

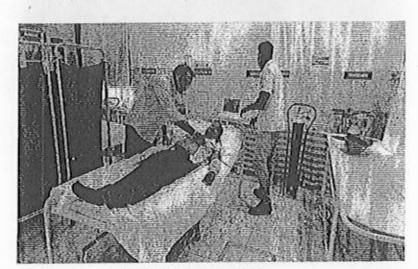


First Aid team rescued the victim and mobilized to OHC



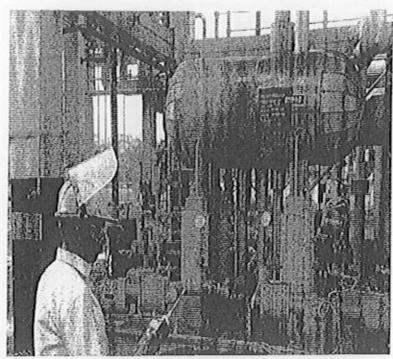


Except plant team workers, all workers were left the site



Victim admitted n OHC





Area protection Officer ensured any VOC around the vaporizer by using VOC meter after attending the crack.



Head count verification in Emergency Assembly point





Mock Drill de-briefing in Emergency Assembly point



WMC consulted with ECC regarding Incident spot status and declared all in control.





All workers return back to the Work place



Reviewing the Observations with Site ERT members by WMC





End of Report





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





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/1/2023/279094 and date of issue: 17/05/2023
- 2. Reference of application No.: 279094 and date: 14/06/2022
- 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, 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/16 Production of caustic soda and chlorine	16.3 Brine sludge	3000 T/Annum	Generation, Storage and Disposal for landfilling in Treatment, Storage & Disposal facility.
2	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 recyclers

- 4 The authorisation shall be valid for a period of 12/03/2025
- 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.
- 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.
- 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.
- 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.
- The authorisation for transport shall be obtained by either the sender or the receiver on whose behalf the transport is being arranged.
- 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.
- 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 maintain records in Form-3 for the generation of brine sludge and also include brine sludge in Form-4 for annual return and annual inventory. The unit shall also generate manifest in Form-10 for every consignment.
- (ii) The unit shall also explore the utilization of brine sludge for the manufacturing of bricks as per CPCB SOP in order to reduce the disposal of hazardous waste to landfilling.
- (iii) The unit shall obtain necessary NOC from PPCC and KSPCB for the final disposal of brine sludge. The unit shall give prior intimation to SPCBs/PCCs of the States/UTs of transit incase of interstate transportation. The unit shall also submit a copy of the NOC obtained from KSPCB to this authority prior to transportation.
- (iv) 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.
- (v) 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.

Date: 17/05/2023

Signature of Issuing Authority Designation and Seal

Read on 13

GOVERNMENT OF PUDUCHERRY DEPARTMENT OF SCIENCE, TECHNOLOGY AND ENVIRONMENT PUDUCHERRY POLLUTION CONTROL COMMITTEE III FLOOR, PHB BUILDING, ANNA NAGAR, PUDUCHERRY - 605 005 PH: 2201256 / 2203494; FAX: (0413) 2203494

FORM - II

RENEWAL AND AMENDMENT OF AUTHORISATION TO THE OCCUPIER FOR HANDLING AND MANAGEMENT OF HAZARDOUS AND OTHER WASTED 4 SEP 2020

1. Number of authorisation and date of issue :

56/PPCC/HWM/AEE/2020/661

2. Reference of application (No. and date)

6650 and 16.12.2019

The Occupier of M/s Chemplast Sanmar Limited., is hereby granted an authorisation 3 based on the enclosed signed inspection report for Generation, Collection, Storage and disposal of hazardous wastes on the premises situated at No. 315, Melavanjore village, Nagore Post - 611002, Karaikal.

Details of Authorisation

Schedule No.	Name of the Hazardous Waste or Other Waste	Quantity in TPA	Method of Disposal
5.1 of Schedule I	Used or spent oil	7.2	Shall be stored under the shed over an impervious flooring and disposed to authorized recycler
5.2 of Schedule I	Wastes/residue containing oil	2	Shall be stored under the shed over an impervious flooring and disposed for pre-processing or co-processing.
33.1 of Schedule I	Empty barrels/containers contaminated with hazardous chemicals /wastes	6	Shall be stored under the shed over an impervious flooring and disposed for utilization or recycling.

- (1) The authorisation shall be valid for a period upto 12.03.2025
- (2) The authorisation is subject to the following general and specific conditions

A. General conditions of authorisation:

- The authorised person shall comply with the provisions of the Environment (Protection) 1. Act, 1986, and the rules made there under.
- 2. The authorisation or its renewal shall be produced for inspection at the request of an officer authorised by the PPCC.
- The person authorised shall not rent, lend, sell, transfer or otherwise transport the 3. 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 PPCC to close down the facility.
- An application for the renewal of an authorization shall be made 90 days before the date of expiry.
- 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.
- The occupier handling hazardous and other wastes shall submit annual returns containing
 the details specified in Form 4 to PPCC on or before the 30th day of June of every year
 for the preceding period April to March.

B. Specific conditions of Authorization:

- 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
- 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 occupier's 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 records of such operations of generation, handling, storage and disposal as per Form 3 on daily basis.
- 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.
- The authorisation for transport shall be obtained by either the sender or the receiver on whose behalf the transport is being arranged.

- 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. Transit 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.
- 13. 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.
- 14. 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.
- 15. The unit shall enter agreement for disposal of Hazardous waste category 5.2 Wastes/residue containing oil and submit a copy of the same to this authority within three months from date of issue,
- The unit shall expedite the disposal of membrane cells, brine sludge and other waste generated during the dismantling of pipelines with necessary permission from PPCC.
- The unit shall install online display board showing hazardous waste details as per the Hon'ble Supreme Court directions. (Board of size 6' x 4' installed outside the main gate) on daily basis.
- 18. 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.

For and on behalf of PPCC

(SMITHA. R., I.A.S)
MEMBER SECRETARY
Puducherry Pollution Control Committee

To

M/s Chemplast Sanmar Limited, PVC Division Melvanjore Village, TR Pattinam Panchayat, Nagore, Karaikal - 611 002.

Copy to: Guard file



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
	Guidelines for Industries and Isolated Storages:	
REF	PORTING	Name and the second sec
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	 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 personal for handling and controlling of such emergencies Necessary safety equipments are made available in plant 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 of any major accident occurred
	The occupier shall not undertake any industrial activity or	Complied.
	isolated storage unless he has been granted an approval for	We always get prior approval from



	undertaking such an activity by the concerned authorities and has submitted a written report to the concerned 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	concerned authorities for any modification undertaken in our existing industrial activity or isolated storage. In case of an activity involving more than the threshold quantity for a chemical as per MSIHC Rules, we will ensure that a separate approval will be obtained from the regulating authorities
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	Complied. We get prior approval from concerned authorities in case of any changes in threshold quantity of hazardous chemicals
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	Agree to comply for industrial activity or 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. External safety audit is conducted by a Third Party Auditor approved by Ministry of Labour and Employment of India once in a year. Auditor's report with compliance status are being submitted to concerned authorities within time frame
3	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	

9	The occupier shall not make any modification to the industrial	Complied.
	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 report to the concerned authorities at least 90 days before making those modifications	We never do any modification of the industrial activity or isolated storage without getting prior approval from concern authorities
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	We have prepared Off Site Emergency
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		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	 All possible major risks & hazards have been identified through various studies like QRA, HAZOP, Process Safety Audit, Hazardous Area Classification, Lightening Protection Study etc.



	year	All the emergency scenarios are captured in emergency response plan 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, explosion 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
TES	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	
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

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23	Operation and process control systems like Supervisory	Complied.
	Control and Data Acquisition (SCADA) and Leak Detection and Repair (LDAR) systems should be adopted by the major accident hazard installations	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 concerned workers 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 report is 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
DUT	TES	
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 in 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 procedure 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	Complied. Sensors with alarm system installed for hazardous chemicals and connected to control room to alert employees

	neutralize/vent out the gases safely	
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	Automatic alarming system available to alert in case of emergency situation
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 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 independent works	
44	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
18	The industry/isolated storage shall provide essential Personnel	Complied.



	Protective Equipment (PPE) to all the concerned employees and make it mandatory that the employees have to wear PPE during working hours	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 SPCBs/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 chemical 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 the emergencies Response team is available as per our On-Site emergency plan

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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
60	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 displays is available in predominant locations of our factory
61	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
62	Increased automation that avoids physical handling of dangerous chemicals and substances should be brought into practice	
63	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 facilities should be easily accessible	Complied . In our factory all emergency valves, switches and emergency handling facilities are located in easily accessible areas
65	Safety audit reports shall be made online for public	Agree to comply by accessing of public through our website
66	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	The factory is in operation for several years now and necessary details 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
67	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	In our plant we have state of art Effluent Treatment Plant (ETP) and facility available to divert all used fire fighting/contaminated water to ETP & is treated in a scientific manner Hazardous waste generated are disposed to authorized persons as per State Pollution Control Committee
68	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	Possible emergencies that could occur in our storage installations like warehouses/tank farms are identified and same as incorporated in onsite



the same in the Off Site Emergency Plan for the district or the	
particular area	plan. List o
	meet then

emergency plan/Offsite emergency plan. List of emergencies and plans to meet them and same has already submitted to district crisis group authorities

69 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:

 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

 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 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.

Complied.

The factory is in operation for several 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



Wherever applicable, the industries or the isolated storages shall invariably comply with the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 (as amended), The Major Accident Hazard Control Rules, 1997, The Factories Act, any other applicable rules or guidelines issued by the respective Government of State/Union Territory, The Ministry of Labour & Employment, Petroleum and Explosive Safety Organization, Oil Industry Safety Directorate etc.

All activities related to our industry are complying with the MSIHC Rules, 1989 (as amended), The Major Accident Hazard Control Rules, 1997, The Factories Act, and all other applicable rules or guidelines issued by the respective Government of State/Union 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 prepare and keep up-to-date an on-site emergency plan containing details specified in Schedule 11 of the Manufacture, Storage and Import of Hazardous Chemical 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

Complied.

On Site Emergency Plan is periodically reviewed and required details are mentioned appropriately

The occupier shall ensure that the emergency plan prepared takes into account any modification made in the industrial activity/isolated storage and that every person on the site who is affected by the plan is informed of its relevant provisions

If any modification made in our factory, emergency preparedness plan is reviewed and same is communicated through a proper training to all workers in the factory

The occupier shall prepare the emergency plan in the case of a new industrial activity or isolated storage, before that activity is commenced

No new industrial activity or isolated storage were done recently. However when there is any new industrial activity or isolated storage, emergency preparedness plan will be reviewed

The occupier shall conduct a mock drill of the on-site emergency plan every six months and a detailed report of the mock drill conducted shall be made immediately available to the concerned authorities as and when demanded

We wish to inform your good office that the Mock Drill is conducted once in three months and its outcomes are 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 elements:

 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

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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

 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



6	The Objectives of Safety Audit should be: i. To examine the existing procedures, system and control measures for hazards	Complied . All the Objectives of the Safety Audit is full filled in our external safety audit
5	The broad areas to be covered in the Safety Audit should be: i. Occupational Health and Safety Management 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	All the scopes said in rules are captured in our external safety audit
4	The audit should be carried out as per IS 14489:2018 – Code of Practice on Occupational Safety & Health Audit (as amended time to time)	External safety audit is carried out as per IS 14489:2018 – Code of Practice on Occupational Safety & Health Audit only
3	The safety auditor carrying out the safety audit under Rule 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	
2	The qualifications and experience of safety auditor should be as per extant rules	We wish to inform your good office that the safety auditor qualifications and experience is followed as mentioned in rules
1	The safety audits should be conducted by the competent agency to be accredited by an Accreditation Board to be constituted by the Ministry of Labour and Employment, Government of India in this behalf and in absence of such Accreditation Board by a competent agency approved by Chief inspector of Factories	External safety audit is conducted by a third party auditor approved by Ministry of Labour and Employment of India or by a competent agency approved by Chief Inspector of Factories
E. 0	likelihood that an event will occur Guidelines on Safety Audit:	
	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	



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

