CHEMPLAST SANMAR LTD
SANMAR SPECIALITY CHEMICALS DIVN., BERIGAI.

COMPLIANCE TO THE CONDITIONS OF THE MINISTRY OF ENVIRONMENT AND FORESTS

S. No	Conditions Imposed	Compliance
1	**A. SPECIFIC CONDITIONS:** **The project authorities shall install full-fledged own Effluent Treatment Plant (ETP) to treat the wastewater and ensure zero discharge from the plant through recycling/reuse of the treated wastewater or evaporation. The domestic wastewater shall be disposed of through the septic tanks and soak pits. The company shall segregate and treat the cyanide bearing effluent chemically to ensure that treated effluent conform to prescribed limits.**	We have full-fledged Effluent Treatment Plant to treat the wastewater with multiple effect evaporators (MEE), Biological conventional treatment and RO system. The water recovered is totally reused in the process plant itself. The domestic waste water is also treated in the STP. The cyanide bearing wastewater is chemically treated with Sodium hypochlorite solution and taken for evaporation in the MEE. We are monitoring the treated effluent daily and the analysis report is sent to TNPCB office, Chennai every month and once in six months to Additional Director, MoEF Regional office, Chennai. **Reports enclosed as Annexure-1**
2	**The Company shall obtain permission for drawl of ground water from the Central Ground Water Authority or State ground Water Board and copy of the same shall be submitted to the Ministry's Regional Office at Chennai.**	We have obtained permission from the Central Ground Board for the withdrawal of 207.5 KLD of ground water. (Vide permission letter No.21-4(134)/SECR/CGWA/09-3708 dt. 01.06.2012). Copy of this letter was submitted earlier to the Regional Office of Ministry of Environment and Forests. **Reports enclosed as Annexure -2**
3	**The Company shall install sufficient air pollution control arrangements to achieve the standards prescribed by the Tamil Nadu Pollution Control Board (TNPCB).**	All the process equipments are connected to the scrubbers and equipment where solvents distilled are provided with condensers and after coolers and the receivers are connected to the scrubber. The scrubbers are circulated with appropriate scrubbing solution like caustic, hypochlorite, water etc. The pH indicator and pressure switches are provided to ensure quality of scrubbing liquid for effective scrubbing. Installed sufficient air pollution control equipment and Stack monitoring are conducted every month by authorized third party NABL and MoEF approved Lab and twice in a year by District Environment Laboratory, TNPCB, Hosur. Emission Levels are within the prescribed standards. **Reports enclosed as Annexure-3**

S. No	Conditions Imposed	Compliance
4	**Data on ambient air quality stack emission and fugitive emissions shall be uploaded on the company's website and also regularly submitted online to Ministry's Regional office at Bangalore, Tamil Nadu Pollution Control Board and Central Pollution Control Board as well as hard copy once in six months. Data on SPM, SO_2 and NOx shall also be displayed prominently outside the premises at the appropriate place for the general public.**	Ambient air quality and stack monitoring conducted every month by authorized third party NABL and MoEF approved Lab and twice in a year by District Environment Laboratory, TNPCB, Hosur. Emission Levels are within the prescribed standards. Reports are sent to TNPCB office, Chennai every month and once in six months to Additional director, MoEF Regional office, Chennai. Data of SPM, SO_2 and Nox were displayed outside the factory premises at the appropriate place. **Reports enclosed as Annexure-1**
5	**The Company shall provide the monitoring arrangement with stacks/vents and regular monitoring shall be carried out and reports submitted to the TNPCB, CPCB and Ministry's Regional Office at Chennai**	We have engaged a third party environment-monitoring agency to monitor process stack emissions on monthly basis. We are sending the report to the Member Secretary, TNPCB, Chennai every month and to the Additional Director, Ministry of Environment and Forest, Chennai once in six months. **Reports enclosed as Annexure-1**
6	**Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions shall conform to the limits imposed by TNPCB.**	We are conducting Noise survey every month. Work zone and noise emission monitoring is being conducted once in a year by third party in various areas like raw material charging, process area, packing area, MEE plant, DG area etc. and reports are being maintained. **Reports enclosed as Annexure-4**
7.	**For control of fugitive emission and VOCs following steps shall be followed:** **A. Closed handling system shall be provided for solvents** **B. Reflux condenser shall be provided over reactors wherever volatile solvents are used.** **C. Pumps shall be provided with mechanical seals to prevent leakages.**	 A. The Solvent used in the processes is handled in a closed loop and in process materials are stored in drums will be kept under structured roof. B. Equipment where volatile solvents distilled is provided with reflux condensers and after coolers and the receivers are connected to the scrubber. C. Pumps of compatible MOC with Single and Double Mechanical seals are used for handling corrosive and hazardous chemicals.

S. No	Conditions Imposed	Compliance
	D. System of leak detection and repair of pump/pipeline based on preventive maintenance. **E. Solvents shall be taken from underground storage tanks to reactors through closed pipeline. Solvent–Storage tanks in the tank farm shall be vented through condenser operated on chilled water.**	D. Periodic preventive maintenance and inspection is done for all the equipments by the in-house Engineering team and LDAR study carried yearly once by External lab and its report submitted to TNPCB, Hosur **Reports enclosed as Annexure-5** E. Tanks used for the bulk Storage of solvents are provided with condensers circulated with chilled water and are also provided with flash back flame arrestors. Solvents are handled through closed pipelines.
8.	**The process emissions and particulate matter from various units shall conform to the standards prescribed by the concerned authorities from time to time. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.**	Emission from the boiler, DG and process stacks are being analysed every month and the report is being sent to TNPCB, Chennai every month. **Reports enclosed as Annexure-1** In most of the operation, process interlocks are provided based on pollution control system efficiency like scrubbers, etc. In manual operation plant, in case of any failure in pollution control system, process will be stopped immediately and will be restarted after resolving the problem.
9.	**The project authorities shall sale spent oil shall be sold to approved recycler. The empty containers and bags shall be sold to TNPCB registered dealers.**	The waste oil is being sold only to the authorized waste oil reprocessors approved by TNPCB and listed in the Approved recycler list published by MoEF.
10.	**During transfer of materials, spillages shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains.**	Process drains are totally isolated from storm and domestic drain with the help of separate pipelines laid for each stream. Dyke wall is provided for material storage
11	**The project authorities shall develop greenbelt in 33% of project area as per the guidelines of CPCB to mitigate the effect of fugitive emission.**	Total factory land area in acres : 43.00. Green belt area in Acres (33%of 43Acre) :16.1 Total number Plantations : 16250 no **Reports enclosed as Annexure- 6**
12.	**Adequate financial provision shall be made in the budget of the project for implementation of the above-suggested environmental safeguards. Fund so earmarked shall not be diverted for any other purposes.**	The funds earmarked for the environmental protection measures are put to use for the same purpose and the details are given **as Annexure-7** and running cost for Effluent treatment systems are given **as Annexure-8.**
13.	**Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.**	Occupational health surveillance for Employees is carried out in accordance with the factories act and it is certified by certifying surgeon and verified by deputy chief inspector of factories during his visit. **Reports enclosed as Annexure 9**

S. No	Conditions Imposed	Compliance
14	**The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.**	A full-fledged fire hydrant system with ring main is provided and designed as per TAC (Tariff Advisory committee) regulations. The system is automatic and pressurized system. It is kept automatically under pressure with the help of a jockey pump. One electrical driven pump works as the main pump with a diesel driven pump as standby. A dedicated water reservoir for fire protection is provided with two-fire water storage of total capacity 1200 KL. 21 no. of emergency 'manual call point' and 43 no. of smoke detector was installed around the factory. Sprinkler system provided for Flammable bulk storage and unloading areas. Apart from fixed fire fighting system, portable fire extinguishers are provided at various locations of the plant so that in the incipient stage itself fires can be handled and extinguished.
15.	**Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, Safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.**	There is no project activity at present. How ever, while starting new projects, necessary infrastructure and facilities will be provided and will be removed after the completion of the project.

CHEMPLAST SANMAR LTD

SANMAR SPECIALITY CHEMICALS DIVN., BERIGAI.

COMPLIANCE TO THE CONDITIONS OF THE MINISTRY OF ENVIRONMENT AND FORESTS

S. No	Conditions Imposed	Compliance
	B. GENERAL CONDITIONS:	
1)	**The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body.**	All the Stipulation of TNPCB / State government are being strictly adhered.
2)	**No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.**	We have not taken up any further expansion / modification in the plant. However in case of any expansion We will approach the Ministry for prior approval
3)	**The project authorities shall strictly comply with the rules and regulations under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes**	Hazardous chemicals are handled in accordance with Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 We have the Authorization from TNPCB for collection, Storage, Transportation and Disposal of Hazardous waste and valid up to 31.03.2026 **Reports enclosed as Annexure 10**
4)	**Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration are anticipated in consultation with the State Pollution Control Board.**	Ambient air quality monitoring stations set up in five location and sample will collect once in a month by External lab and once in six month by TNPCB lab. **Reports enclosed as Annexure 11**
5)	**For control of process emissions, stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided. The scrubbed water shall be sent to ETP for further treatment.**	Stack of Appropriate heights are installed and the scrubbed water/ chemicals treated in the effluent treatment plant. **Reports enclosed as Annexure 12**

S. No	Conditions Imposed	Compliance
6)	**The company shall undertake following Waste Minimization measures: -**	
	a) Metering of quantities of active ingredients to minimize waste.	Active ingredients like reactants, solvents and water used in the process are quantified prior to the usage through electronic devices such as electronic weighing balances, Mass flow meters
	b) Reuse of by-products from the process as raw materials or as raw material substitutes in other processes	Recovery and reuse of raw material and solvents are done wherever is possible
	c) Maximizing recoveries.	In order to get maximum recovery, solvents/product distillation systems are provided with condensers, and after coolers, circulated with suitable coolants
	d) Use of automated material transfer system to minimize spillage.	Automated material transfer system and system for the unidirectional flow of materials are being installed
	e) Use of "Closed Feed" system into batch Reactors.	The Solvent and corrosive chemicals used in the processes are handled in a closed system. Closed feed system with automation is installed in the new additional production block in the organic chemical plant

7)	**The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management and Handling) Rules, 2003. Authorization from the SPCB shall be obtained for collections/treatment/ storage/disposal of hazardous wastes.**	The hazardous waste authorization granted by TNPCB for collection/ treatment/storage/ of hazardous waste is valid up to 31.03.2026 and will be complied to rules and regulation of Hazardous waste management rules. **Reports enclosed as Annexure 10**
8)	**The overall noise levels in and around the plant area shall be kept well within the standards (85 dBA) by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).**	Noise level is being monitored once in month for day and night in 7 locations within the factory premises. All the values are within the stipulated level. TNPCB is also carrying out the noise survey once in 6 months. **Reports enclosed as Annexure-4**
9)	**A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the environmental management and monitoring functions.**	The Environment Management cell is a separate function headed by the Factory in charge assisted by Manager-Environment and other support staffs. It has facilities to carry out full-fledged Environment management functions and monitoring.
10)	**The project authorities shall provide rainwater harvesting system and ground water recharge.**	Rain harvesting system is implemented for ground water recharge in the plant. **Reports enclosed as Annexure-13**
11)	**The implementation of the project vis-à-vis environmental action plans shall be monitored by Ministry's Regional Office /SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies.**	Six monthly progress reports is sent to MoEF regional office Chennai on 29.10.2021
12)	**The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB and may also be seen at Website of the Ministry at http://envfor.nic.in. This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Ministry's Regional Office**	There is no project activity in accordance with environmental clearance at present. However, before starting any new projects the company will be followed same.

13)	**The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.**	There is no project activity in accordance with environmental clearance at present. However, before starting any new projects the company will be followed same.

Date: 14.12.2022
Place: BERIGAI

14/12/2022
Name and Signature of Head of Facility.

YOGEESWARA DASAPPA GOWDA
Senior Vice President - Operations

ANNEXURE - 1

SANMAR

Chemplast Sanmar Limited
Sanmar Speciality Chemicals Divn.

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www.sanmargroup.com
CIN U24230TN1965PLC011637

YBG/RJ9/TNPCB/Monthly report/5/2022
MAY-10, 2022

The Member Secretary
Tamil Nadu Pollution Control Board
100,Anna Salai, Guindy
Chennai – 600 032

Dear Sir

Sub: Monthly Progress Report APRIL- 2022

Please find the monthly report for the month of APRIL- 2022 as required in Consent under Air and Water Act issued to us.

11. Report on Sewage and Trade effluent handled:

Quantity of Sewage water generated (Treated in Sewage treatment plant followed by U.V System. Treated water used for Gardening)	: 356. KL
Quantity of lean effluent generated (Treated in Biological system followed by RO System. RO Permeate is reused in cooling tower make up and Process. RO Reject is treated in Multiple Effect Evaporator)	: 100.0KL
Quantity of Concentrated effluent generated (Conc. Effluent Generated is treated and evaporated in Multiple Effect Evaporators. Condensate is recycled in Cooling tower make up) (Day wise generation provided in Annexure – 5)	: 1472.0KL

12. The following analysis reports for the month of APRIL- 2022 are enclosed for your perusal.

Treated Trade effluent analysis report by our laboratory	Annexure 1
Ambient Air Quality Survey	Annexure 2
Stack analysis of Boiler (6.0 T/hr) and other stacks	Annexure 3
Metrological data	Annexure 4
Day – Wise generation of concentrated waste, Lean Effluent and sewage water	Annexure 5

Thanking You,
Yours Faithfully,

For CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICAL DIVN

Senior Vice President-Operations
Authorized Signatory
Encl: Annexure 1,2,3,4 & 5
Cc:
The District Environmental Engineer
Tamil Nadu Pollution Control Board, HOSUR.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF April-2022

Date	COD	BOD	TDS	pH	Phenolic compounds	Cyanide content	REMARKS
	*250 ppm	*30 ppm	*2100 PPM	*5.5- 9.0			
1-Apr-2022	160.0	NA	900.0	6.5	BDL	BDL	
2-Apr-2022	150.0	NA	800.0	6.4	BDL	BDL	
3-Apr-2022	110.0	NA	850.0	7.2	BDL	BDL	
4-Apr-2022	120.0	NA	950.0	6.3	BDL	BDL	
5-Apr-2022	140.0	NA	850.0	6.6	BDL	BDL	
6-Apr-2022	140.0	NA	800.0	7.1	BDL	BDL	
7-Apr-2022	120.0	NA	950.0	7.5	BDL	BDL	
8-Apr-2022	130.0	NA	900.0	7.7	BDL	BDL	
9-Apr-2022	190.0	NA	800.0	6.5	BDL	BDL	
10-Apr-2022	160.0	NA	1000.0	6.9	BDL	BDL	
11-Apr-2022	130.0	NA	950.0	7.0	BDL	BDL	
12-Apr-2022	160.0	NA	950.0	7.1	BDL	BDL	
13-Apr-2022	170.0	NA	850.0	6.2	BDL	BDL	
14-Apr-2022	150.0	NA	800.0	6.4	BDL	BDL	
15-Apr-2022	180.0	NA	950.0	6.5	BDL	BDL	
16-Apr-2022	200.0	NA	1000.0	7.1	BDL	BDL	
17-Apr-2022	190.0	NA	900.0	7.3	BDL	BDL	
18-Apr-2022	110.0	NA	950.0	7.5	BDL	BDL	
19-Apr-2022	150.0	NA	850.0	7.7	BDL	BDL	
20-Apr-2022	170.0	NA	800.0	7.2	BDL	BDL	
21-Apr-2022	160.0	NA	950.0	7.3	BDL	BDL	
22-Apr-2022	140.0	NA	1000.0	6.9	BDL	BDL	
23-Apr-2022	160.0	NA	800.0	6.8	BDL	BDL	
24-Apr-2022	130.0	NA	850.0	6.5	BDL	BDL	
25-Apr-2022	170.0	NA	1000.0	7.0	BDL	BDL	
26-Apr-2022	200.0	NA	950.0	6.8	BDL	BDL	
27-Apr-2022	190.0	NA	900.0	6.7	BDL	BDL	
28-Apr-2022	110.0	NA	850.0	7.1	BDL	BDL	
29-Apr-2022	130.0	NA	900.0	7.7	BDL	BDL	
30-Apr-2022	120.0	NA	800.0	7.3	BDL	BDL	

* TNPCB Limit

** RO plant stopped,due to cleaning and maintenance

NA - Not analysed

COD - Chemical Oxygen Demand

BOD - Biological Oxygen Demand

TDS - Total Dissolved solids

BDL - Below Detectable Limit

ANALYSED BY	CHECKED BY	APPROVED BY

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

FOR/SHE/044

MONTH:Apr-2022
WIND DIRECTION : East to SouthWest
DURATION OF SURVEY : 24 HOURS

Station No.	Location of Sample	Temp °C	Relative Humudity %	Concentration µg/Nm³								Conc. in mg/Nm³	Conc. in ng/Nm³		
		Ambient		PM 10 µm	PM 2.5 µm	SO_2	NO_x	O_3	Pb	As	Ni	CO	NH_3	C_6H_6	BaP
NAAQS	ANNUAL			60	40	50	40		1	6	20		100	5	1
	24 HOURS			100	60	80	80		0.5				400		
	8 HOURS							100							
	1 HOUR							180							
1	NEAR CANTEEN AREA	33.0	68	47.6	17.6	15.8	24.9	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
2	NEAR TANK FARM AREA	32.0	68	54.5	21.1	11.4	19.6	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
3	NEAR PHYTO PLANT SECURITY GATE	32.0	68	43.8	14.1	14.2	23.2	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
4	LAND FILL AREA	32.0	68	47.2	21.1	8.7	15.1	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ

NAAQS → National Ambient Air Quality Standards.
PM10µm → PARTICULATE MATTER less than 10 µm
PM2.5µm → PARTICULATE MATTER less than 2.5 µm
SO2 → SULPHUR DIOXIDE
NOx → OXIDES OF NITROGEN
O3 → Ozone
Pb → Lead
NH3 → Ammonia
C6H6 → Benzene
CO → Carbon mono oxide
BaP → Benzo pyrene
As → Arsenic
Ni → Nickel

: BDL: Below Detection Limit
BLQ-Below Limit of Quantification
Note: Analysis carried out by Glens lab ,chennai

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 3 Anaysis Report For the month of Apr-2022

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C	CYANIDE AS CN mg/M3	Analysis Results				
			Ambient		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)	CYANIDEAS CN(mg/m3)
1	Boiler 6T/hr	–	32.00	NA	16.90	59.70	144.00	112.00	NA
2	Plant -4 Scrubber-101A	-	32.00	BDL	21.50	BDL	BDL	BDL	BDL
3	Plant -4 Scrubber-102		32.00	BDL	11.80	BDL	BDL	BDL	BDL
4	Plant -4 Scrubber-103	–	32.00	BDL	14.20	BDL	BDL	BDL	BDL
5	Plant -2 scrubber - 2	–	32.00	BDL	15.20	91.60	6.00	2	BDL

Note:Analysis carried out by Glens lab,chennai

BDL-Below detection limit

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN.BERIGAI.

Annexure 4

Weather report: Month of Apr-2022

Date	Temperature in Celsius		Relative Humidity			Wind		Rainfall (mm)
	Max. (in ^{0} C)	Min. (in ^{0} C)	Dry bulb in ^{0} F	Wet bulb in ^{0} F	Rh%	Velocity in km/hr	Direction	
1-Apr-2022	34	18	74	66	64	1.96	EW	0
2-Apr-2022	33	17	76	68	65	2.71	EW	0
3-Apr-2022	34	17	77	68	62	1.13	EW	0
4-Apr-2022	34	18	77	68	62	1.71	EW	0
5-Apr-2022	34	18	75	68	68	0.54	EW	0
6-Apr-2022	33	19	75	67	66	2.83	EW	0
7-Apr-2022	34	18	75	67	66	1.21	EW	0
8-Apr-2022	34	19	74	66	64	2.04	EW	0
9-Apr-2022	33	19	74	65	60	1.54	EW	0
10-Apr-2022	32	19	76	67	61	1.21	EW	0
11-Apr-2022	33	18	76	68	65	1.38	EW	0
12-Apr-2022	33	19	77	68	62	0.53	EW	0
13-Apr-2022	33	18	78	69	62	2.38	EW	5
14-Apr-2022	32	19	78	70	66	3.75	EW	78
15-Apr-2022	34	19	77	70	68	3.21	EW	0
16-Apr-2022	33	18	78	71	70	3.50	EW	19
17-Apr-2022	33	19	77	70	69	2.25	EW	0
18-Apr-2022	33	18	74	66	64	3.58	EW	20
19-Apr-2022	33	17	74	66	64	2.38	EW	0
20-Apr-2022	33	17	75	66	60	2.25	EW	0
21-Apr-2022	33	17	73	65	63	1.88	EW	0
22-Apr-2022	34	18	74	66	64	2.13	EW	0
23-Apr-2022	33	18	73	65	63	1.96	EW	0
24-Apr-2022	33	17	78	69	62	1.71	EW	0
25-Apr-2022	33	16	78	71	70	1.13	EW	0
26-Apr-2022	32	18	79	71	66	1.88	EW	0
27-Apr-2022	32	16	79	71	66	0.54	EW	0
28-Apr-2022	33	18	79	71	66	2.83	EW	0
29-Apr-2022	34	18	79	71	66	1.21	EW	0
30-Apr-2022	33	17	78	72	74	1.13	EW	0

Prepared by | Checked by | Approved by

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

BERIGAI - 635105

Effluent Generated during the month of Apr-2022

ANNEXURE-5

Date	Conc.Effluent Generated (KL)	Lean Effluent Generated (KL)	Sewage effluent Generated (KL)	Remarks
1-Apr-2022	16	7.0	12.0	
2-Apr-2022	67	0.0	12.0	
3-Apr-2022	47	0.0	10.0	
4-Apr-2022	55	0.0	11.0	
5-Apr-2022	55	0.0	12.0	
6-Apr-2022	55	10.0	14.0	
7-Apr-2022	55	0.0	12.0	
8-Apr-2022	55	5.0	12.0	
9-Apr-2022	55	7.0	12.0	
10-Apr-2022	55	0.0	12.0	
11-Apr-2022	55	0.0	12.0	
12-Apr-2022	50	0.0	11.0	
13-Apr-2022	50	5.0	12.0	
14-Apr-2022	48	13.0	11.0	
15-Apr-2022	55	18.0	12.0	
16-Apr-2022	55	8.0	12.0	
17-Apr-2022	55	0.0	11.0	
18-Apr-2022	50	2.0	14.0	
19-Apr-2022	34	5.0	12.0	
20-Apr-2022	49	0.0	12.0	
21-Apr-2022	55	0.0	12.0	
22-Apr-2022	45	0.0	12.0	
23-Apr-2022	45	5.0	12.0	
24-Apr-2022	48	10.0	10.0	
25-Apr-2022	48	0.0	12.0	
26-Apr-2022	45	0.0	12.0	
27-Apr-2022	50	0.0	12.0	
28-Apr-2022	55	0.0	12.0	
29-Apr-2022	55	0.0	12.0	
30-Apr-2022	10	5.0	12.0	
TOTAL	1472.00	100.00	356.00	

Prepared by | Checked by | Approved by

SANMAR

Chemplast Sanmar Limited
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YBG/RJ9/TNPCB/Monthly Report/5/2022
June-09, 2022

The Member Secretary
Tamil Nadu Pollution Control Board
100,Anna Salai, Guindy
Chennai – 600 032

Dear Sir

Sub: Monthly Progress Report May- 2022

Please find the monthly report for the month of May- 2022 as required in Consent under Air and Water Act issued to us.

1. Report on Sewage and Trade effluent handled:

Quantity of Sewage water generated (Treated in Sewage treatment plant followed by U.V System. Treated water used for Gardening)	: 361.00 KL
Quantity of lean effluent generated (Treated in Biological system followed by RO System. RO Permeate is reused in cooling tower make up and Process. RO Reject is treated in Multiple Effect Evaporator)	: 114.00 KL
Quantity of Concentrated effluent generated (Conc. Effluent Generated is treated and evaporated in Multiple Effect Evaporators. Condensate is recycled in Cooling tower make up) (Day wise generation provided in Annexure – 5)	: 1092.00 KL

2. The following analysis reports for the month of May- 2022 are enclosed for your perusal.

Treated Trade effluent analysis report by our laboratory	Annexure 1
Ambient Air Quality Survey	Annexure 2
Stack analysis of Boiler (6.0 T/hr) and other stacks	Annexure 3
Metrological data	Annexure 4
Day – Wise generation of concentrated waste, Lean Effluent and sewage water	Annexure 5

Thanking You,
Yours Faithfully,

For CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICAL DIVN

Senior Vice President-Operations
Authorized Signatory
Encl: Annexure 1,2,3,4 & 5
Cc:
The District Environmental Engineer
Tamil Nadu Pollution Control Board, HOSUR.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF May-2022

Date	COD	BOD	TDS	pH	Phenolic compounds	Cyanide content	REMARKS
	*250 ppm	*30 ppm	*2100 PPM	*5.5-9.0			
1-May-2022	170.0	NA	800.0	6.7	BDL	BDL	
2-May-2022	140.0	NA	750.0	6.8	BDL	BDL	
3-May-2022	160.0	NA	850.0	6.6	BDL	BDL	
4-May-2022	160.0	NA	700.0	7.2	BDL	BDL	
5-May-2022	150.0	NA	900.0	7.5	BDL	BDL	
6-May-2022	170.0	NA	850.0	7.8	BDL	BDL	
7-May-2022	180.0	NA	700.0	7.3	BDL	BDL	
8-May-2022	160.0	NA	750.0	6.9	BDL	BDL	
9-May-2022	120.0	NA	900.0	6.7	BDL	BDL	
10-May-2022	110.0	NA	850.0	7.1	BDL	BDL	
11-May-2022	130.0	NA	900.0	7.4	BDL	BDL	
12-May-2022	200.0	NA	750.0	7.7	BDL	BDL	
13-May-2022	190.0	NA	700.0	7.0	BDL	BDL	
14-May-2022	160.0	NA	800.0	6.9	BDL	BDL	
15-May-2022	100.0	NA	750.0	6.9	BDL	BDL	
16-May-2022	110.0	NA	900.0	7.3	BDL	BDL	
17-May-2022	160.0	NA	750.0	7.9	BDL	BDL	
18-May-2022	150.0	NA	800.0	7.8	BDL	BDL	
19-May-2022	180.0	NA	800.0	6.5	BDL	BDL	
20-May-2022	140.0	NA	700.0	7.0	BDL	BDL	
21-May-2022	190.0	NA	750.0	7.4	BDL	BDL	
22-May-2022	200.0	NA	900.0	7.7	BDL	BDL	
23-May-2022	170.0	NA	850.0	6.8	BDL	BDL	
24-May-2022	130.0	NA	800.0	6.6	BDL	BDL	
25-May-2022	120.0	NA	750.0	7.2	BDL	BDL	
26-May-2022	110.0	NA	800.0	7.3	BDL	BDL	
27-May-2022	160.0	NA	850.0	6.7	BDL	BDL	
28-May-2022	100.0	NA	900.0	7.6	BDL	BDL	
29-May-2022	130.0	NA	800.0	7.5	BDL	BDL	
30-May-2022	140.0	NA	750.0	7.1	BDL	BDL	

* TNPCB Limit

** RO plant stopped due to cleaning and maintenance

NA - Not analysed

COD - Chemical Oxygen Demand

BOD - Biological Oxygen Demand

TDS - Total Dissolved solids

BDL - Below Detectable Limit

ANALYSED BY	CHECKED BY	APPROVED BY

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN. Berigal

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH: May-2022 FOR/SHE/044

WIND DIRECTION : East to SouthWest
DURATION OF SURVEY : 24 HOURS

Station No.	Location of Sample	Temp °C	Relative Humidity %	Concentration µg/Nm³								Conc. in mg/Nm³	Conc. in ng/Nm³		
		Ambient		PM 10 µm	PM 2.5 µm	SO_2	NO_x	O_3	Pb	As	Ni	CO	NH_3	C_6H_6	BaP
NAAQS	ANNUAL			60	40	50	40		1	6	20		100	5	1
	24 HOURS			100	60	80	80		0.5				400		
	8 HOURS							100							
	1 HOUR							180							
1	NEAR CANTEEN AREA	33.0	58	47.1	16.1	13.5	31.6	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
2	NEAR TANK FARM AREA	33.0	58	54.3	23.7	11.0	19.0	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
3	NEAR PHYTO PLANT SECURITY GATE	33.0	58	44.3	16.7	9.3	20.7	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
4	Near ETP	33.0	58	48.0	17.5	8.9	16.9	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ

NAAQS → National Ambient Air Quality Standards.
PM10µm → PARTICULATE MATTER less than 10 µm
PM2.5µm → PARTICULATE MATTER less than 2.5 µm
SO2 → SULPHUR DIOXIDE
NOx → OXIDES OF NITROGEN
O3 → Ozone
Pb → Lead
NH3 → Ammonia
C6H6 → Benzene
CO → Carbon mono oxide
BaP → Benzo pyrene
As → Arsenic
Ni → Nickel

: BDL: Below Detection Limit
BLQ-Below Limit of Quantification
Note: Analysis carried out by Glens lab ,chennai

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 3 Anaysis Report For the month of May-2022

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C	CYANIDE AS CN mg/M3	Analysis Results				
			Ambient		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)	CYANIDEAS CN(mg/m3)
1	Boiler 6T/hr	–	33.00	NA	17.50	125.30	172.00	162.00	NA
2	Plant -4 Scrubber-101A	–	33.00	BDL	20.10	BDL	BDL	15	BDL
3	Plant -4 Scrubber-102	–	33.00	BDL	12.10	BDL	6.00	31.00	BDL
4	Plant -4 Scrubber-103	–	33.00	BDL	14.70	BDL	BDL	14.00	BDL
5	Plant -2 scrubber - 2	–	33.00	BDL	16.30	102.20	BDL	2	BDL

Note:Analysis carried out by Glens lab,chennai

BDL-Below detection limit

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

BERIGAI - 635105

Effluent Generated during the month of May-2022

ANNEXURE-5

Date	Conc.Effluent Generated (KL)	Lean Effluent Generated (KL)	Sewage effluent Generated (KL)	Remarks
1-May-2022	0.0	5.0	12.0	
2-May-2022	0.0	5.0	12.0	
3-May-2022	0.0	7.0	12.0	
4-May-2022	0.0	5.0	12.0	
5-May-2022	0.0	5.0	12.0	
6-May-2022	9.0	4.0	12.0	
7-May-2022	0.0	5.0	12.0	
8-May-2022	2.0	5.0	10.0	
9-May-2022	3.0	5.0	7.0	
10-May-2022	0.0	5.0	12.0	
11-May-2022	30.0	5.0	12.0	
12-May-2022	39.0	5.0	12.0	
13-May-2022	38.0	5.0	12.0	
14-May-2022	55.0	0.0	11.0	
15-May-2022	55.0	8.0	12.0	
16-May-2022	55.0	5.0	11.0	
17-May-2022	55.0	5.0	12.0	
18-May-2022	55.0	3.0	12.0	
19-May-2022	55.0	0.0	12.0	
20-May-2022	55.0	3.0	12.0	
21-May-2022	51.0	0.0	12.0	
22-May-2022	59.0	3.0	12.0	
23-May-2022	55.0	0.0	12.0	
24-May-2022	55.0	3.0	12.0	
25-May-2022	55.0	0.0	12.0	
26-May-2022	55.0	5.0	11.0	
27-May-2022	55.0	0.0	11.0	
28-May-2022	36.0	3.0	12.0	
29-May-2022	55.0	5.0	12.0	
30-May-2022	55.0	0.0	12.0	
31-May-2022	55.0	5.0	12.0	
TOTAL	1092.00	114.00	361.00	

Prepared by | Checked by | Approved by

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN.BERIGAI.

Annexure 4

Weather report: Month of May-2022

Date	Temperature in Celsius		Relative Humidity			Wind		Rainfall (mm)
	Max. (in ^{0} C)	Min. (in ^{0} C)	Dry bulb in ^{0} F	Wet bulb in ^{0} F	Rh%	Velocity in km/hr	Direction	
1-May-2022	33	17	75	66	60	3.04	EW	8
2-May-2022	33	17	73	65	63	3.75	EW	15
3-May-2022	34	18	74	66	64	3.21	EW	25
4-May-2022	33	18	73	65	63	3.50	EW	34
5-May-2022	34	18	74	66	64	2.26	EW	20
6-May-2022	33	17	76	68	65	2.13	EW	0
7-May-2022	34	17	77	68	62	3.67	EW	0
8-May-2022	34	18	77	68	62	3.67	EW	0
9-May-2022	34	18	75	68	68	1.86	EW	0
10-May-2022	33	19	75	67	66	2.13	EW	0
11-May-2022	33	18	78	69	62	1.21	EW	11
12-May-2022	32	19	78	70	66	3.21	EW	6
13-May-2022	33	17	76	70	73	2.54	EW	0
14-May-2022	33	17	78	69	62	2.25	EW	50
15-May-2022	33	16	78	71	70	2.17	EW	10
16-May-2022	32	18	79	71	66	1.13	EW	55
17-May-2022	32	16	79	71	66	3.58	EW	38
18-May-2022	33	18	79	71	66	0.71	EW	0.5
19-May-2022	34	18	79	71	68	1.13	EW	0
20-May-2022	33	17	78	72	74	2.04	EW	8
21-May-2022	33	18	78	71	70	3.54	EW	0
22-May-2022	33	19	77	70	69	3.21	EW	0
23-May-2022	33	20	74	68	64	2.38	EW	0
24-May-2022	33	21	74	66	64	3.26	EW	0
25-May-2022	33	21	75	67	66	2.13	EW	0
26-May-2022	34	18	75	67	68	1.96	EW	55
27-May-2022	34	19	74	66	64	2.71	EW	0
28-May-2022	33	19	74	65	60	1.13	EW	0
29-May-2022	32	20	76	67	61	3.13	EW	0
30-May-2022	33	21	76	68	65	0.54	EW	0
31-May-2022	33	20	77	68	62	2.83	EW	0

Prepared by | Checked by | Approved by

SANMAR

Chemplast Sanmar Limited
Sanmar Speciality Chemicals Divn.

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Shoolagiri Taluk Krishnagiri District Tamil Nadu Indi
Tel +91 4344 253 005
www.sanmargroup.com
CIN: U24230TN1985PLC011637

YBG/RJ9/TNPCB/Monthly Report/6/2022
July-08, 2022

The Member Secretary
Tamil Nadu Pollution Control Board
100,Anna Salai, Guindy
Chennai – 600 032

Dear Sir

Sub: Monthly Progress Report June- 2022

Please find the monthly report for the month of June- 2022 as required in Consent under Air and Water Act issued to us.

1. Report on Sewage and Trade effluent handled:

Quantity of Sewage water generated (Treated in Sewage treatment plant followed by U.V System. Treated water used for Gardening)	: 364.00 KL
Quantity of lean effluent generated (Treated in Biological system followed by RO System. RO Permeate is reused in cooling tower make up and Process. RO Reject is treated in Multiple Effect Evaporator)	: 73.50 KL
Quantity of Concentrated effluent generated (Conc. Effluent Generated is treated and evaporated in Multiple Effect Evaporators. Condensate is recycled in Cooling tower make up) (Day wise generation provided in Annexure – 5)	: 1567.50 KL

2. The following analysis reports for the month of June- 2022 are enclosed for your perusal.

Treated Trade effluent analysis report by our laboratory	Annexure 1
Ambient Air Quality Survey	Annexure 2
Stack analysis of Boiler (6.0 T/hr) and other stacks	Annexure 3
Metrological data	Annexure 4
Day – Wise generation of concentrated waste, Lean Effluent and sewage water	Annexure 5

Thanking You,
Yours Faithfully,

For CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICAL DIVN

Senior Vice President-Operations
Authorized Signatory
Encl: Annexure 1,2,3,4 & 5
Cc:
The District Environmental Engineer
Tamil Nadu Pollution Control Board, HOSUR.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF June-2022

Date	COD	BOD	TDS	pH	Phenolic compounds	Cyanide content	REMARKS
	*250 ppm	*30 ppm	*2100 PPM	*5.5- 9.0			
1-Jun-2022	140.0	NA	850.0	7.2	BDL	BDL	
2-Jun-2022	160.0	NA	900.0	6.7	BDL	BDL	
3-Jun-2022	130.0	NA	750.0	6.5	BDL	BDL	
4-Jun-2022	170.0	NA	700.0	6.6	BDL	BDL	
5-Jun-2022	150.0	NA	800.0	7.3	BDL	BDL	
6-Jun-2022	130.0	NA	850.0	6.4	BDL	BDL	
7-Jun-2022	170.0	NA	850.0	7.5	BDL	BDL	
8-Jun-2022	160.0	NA	950.0	7.1	BDL	BDL	
9-Jun-2022	140.0	NA	900.0	7.0	BDL	BDL	
10-Jun-2022	160.0	NA	800.0	7.5	BDL	BDL	
11-Jun-2022	120.0	NA	750.0	6.9	BDL	BDL	
12-Jun-2022	100.0	NA	700.0	6.9	BDL	BDL	
13-Jun-2022	130.0	NA	800.0	6.7	BDL	BDL	
14-Jun-2022	170.0	NA	900.0	6.6	BDL	BDL	
15-Jun-2022	180.0	NA	950.0	7.0	BDL	BDL	
16-Jun-2022	190.0	NA	1000.0	7.7	BDL	BDL	
17-Jun-2022	160.0	NA	850.0	6.8	BDL	BDL	
18-Jun-2022	200.0	NA	700.0	6.7	BDL	BDL	
19-Jun-2022	170.0	NA	750.0	6.4	BDL	BDL	
20-Jun-2022	150.0	NA	900.0	7.6	BDL	BDL	
21-Jun-2022	110.0	NA	850.0	7.3	BDL	BDL	
22-Jun-2022	140.0	NA	950.0	7.5	BDL	BDL	
23-Jun-2022	130.0	NA	900.0	7.4	BDL	BDL	
24-Jun-2022	160.0	NA	750.0	6.8	BDL	BDL	
25-Jun-2022	120.0	NA	700.0	7.1	BDL	BDL	
26-Jun-2022	160.0	NA	800.0	6.7	BDL	BDL	
27-Jun-2022	190.0	NA	850.0	7.7	BDL	BDL	
28-Jun-2022	110.0	NA	750.0	6.9	BDL	BDL	
29-Jun-2022	110.0	NA	900.0	7.2	BDL	BDL	
30-Jun-2022	140.0	NA	950.0	7.0	BDL	BDL	

* TNPCB Limit

** RO plant stopped due to cleaning and maintenance

NA - Not analysed

COD - Chemical Oxygen Demand

BOD - Biological Oxygen Demand

TDS - Total Dissolved solids

BDL - Below Detectable Limit

ANALYSED BY	CHECKED BY	APPROVED BY

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:June-2022 FOR/SHE/044
WIND DIRECTION : East to SouthWest
DURATION OF SURVEY :24 HOURS

Station No.	Location of Sample	Temp °C	Relative Humudity %	Concentration µg/Nm³								Conc. in mg/Nm³	Conc. in ng/Nm³		
		Ambient		PM 10 µm	PM 2.5 µm	SO_2	NO_X	O_3	Pb	As	Ni	CO	NH_3	C_6H_6	BaP
NAAQS	ANNUAL			60	40	50	40		1	6	20		100	5	1
	24 HOURS			100	60	80	80		0.5				400		
	8 HOURS							100							
	1 HOUR							180							
1	NEAR CANTEEN AREA	34.0	56	16.7	45.6	12.8	20.2	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
2	NEAR TANK FARM AREA	34.0	58	52.3	22.8	12.8	16.5	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
3	NEAR PHYTO PLANT SECURITY GATE	34.0	58	43.8	14.1	14.2	23.2	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
4	LAND FILL AREA	34.0	58	47.2	21.1	8.7	15.1	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ

NAAQS → National Ambient Air Quality Standards.
PM10µm → PARTICULATE MATTER less than 10 µm
PM2.5µm → PARTICULATE MATTER less than 2.5 µm
SO2 → SULPHUR DIOXIDE
NOx → OXIDES OF NITROGEN
O3 → Ozone
Pb → Lead
NH3 → Ammonia
C6H6 → Benzene
CO → Carbon mono oxide
BaP → Benzo pyrene
As → Arsenic
Ni → Nickel
: BDL: Below Detection Limit
BLQ-Below Limit of Quantification
Note: Analysis carried out by Glens lab ,chennai

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 3 Anaysis Report For the month of June-2022

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C	CYANIDE AS CN mg/M3	Analysis Results				
			Amblent		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)	CYANIDEAS CN(mg/m3)
1	Boiler 6T/hr	–	34.00	NA	15.20	120.00	174.00	160.00	NA
2	Plant -4 Scrubber-101A	-	34.00	BDL	19.20	BDL	BDL	18	BDL
3	Plant -4 Scrubber-102		34.00	BDL	13.60	BDL	8.00	38.00	BDL
4	Plant -4 Scrubber-103	–	34.00	BDL	15.30	BDL	BDL	12.00	BDL
5	Plant -2 scrubber - 2	--	34.00	BDL	18.20	108.00	BDL	4	BDL

Note:Analysis carried out by Glens lab,chennai

BDL-Below detection limit

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN.BERIGAI.

Annexure 4

Weather report: Month of June-2022

Date	Temperature in Celsius		Relative Humidity			Wind		Rainfall (mm)
	Max. (in ^{0} C)	Min. (in ^{0} C)	Dry bulb in ^{0} F	Wet bulb in ^{0} F	Rh%	Velocity in km/hr	Direction	
1-Jun-2022	33	17	76	70	73	2.54	EW	0
2-Jun-2022	33	17	78	69	62	2.25	EW	0
3-Jun-2022	33	18	78	71	70	2.17	EW	12
4-Jun-2022	32	18	79	71	66	1.13	EW	1
5-Jun-2022	32	16	79	71	66	3.58	EW	44
6-Jun-2022	33	18	79	71	66	0.71	EW	0
7-Jun-2022	34	18	79	71	68	1.13	EW	0
8-Jun-2022	33	17	78	72	74	2.04	EW	0
9-Jun-2022	33	18	78	71	70	3.54	EW	0
10-Jun-2022	33	19	77	70	69	3.21	EW	0
11-Jun-2022	33	18	74	66	64	2.38	EW	0
12-Jun-2022	33	17	74	66	64	3.25	EW	0
13-Jun-2022	33	17	75	66	60	3.04	EW	0
14-Jun-2022	33	17	73	65	63	3.75	EW	37
15-Jun-2022	34	18	74	66	64	3.21	EW	0
16-Jun-2022	32	16	79	71	66	3.58	EW	34
17-Jun-2022	34	18	74	66	64	2.25	EW	3
18-Jun-2022	33	17	76	68	65	2.13	EW	0
19-Jun-2022	34	17	77	68	62	3.67	EW	2
20-Jun-2022	34	18	77	68	62	3.67	EW	0
21-Jun-2022	34	18	75	68	68	1.88	EW	0
22-Jun-2022	33	19	75	67	66	2.13	EW	0
23-Jun-2022	34	18	75	67	66	1.96	EW	0
24-Jun-2022	34	19	74	68	64	2.71	EW	0
25-Jun-2022	33	19	74	65	60	1.13	EW	0
26-Jun-2022	32	19	76	67	61	3.13	EW	0
27-Jun-2022	34	17	75	66	60	0.54	EW	0
28-Jun-2022	33	19	77	68	62	2.63	EW	0
29-Jun-2022	33	18	78	69	62	1.21	EW	0
30-Jun-2022	32	19	78	70	66	3.21	EW	0

Prepared by | Checked by | Approved by

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

BERIGAI - 635 105

Effluent Generated during the month of June-2022

ANNEXURE-5

Date	Conc.Effluent Generated (KL)	Lean Effluent Generated (KL)	Sewage effluent Generated (KL)	Remarks
1-Jun-2022	43.0	0.0	12.0	
2-Jun-2022	55.0	0.0	12.0	
3-Jun-2022	55.0	0.0	12.0	
4-Jun-2022	56.0	0.0	12.0	
5-Jun-2022	55.0	5.0	12.0	
6-Jun-2022	55.0	5.0	12.0	
7-Jun-2022	55.0	3.0	15.0	
8-Jun-2022	55.0	1.5	15.0	
9-Jun-2022	55.0	0.0	14.0	
10-Jun-2022	55.0	0.0	12.0	
11-Jun-2022	55.0	0.0	12.0	
12-Jun-2022	55.0	5.0	12.0	
13-Jun-2022	25.0	5.0	12.0	
14-Jun-2022	30.0	5.0	11.0	
15-Jun-2022	48.5	5.0	12.0	
16-Jun-2022	55.0	6.0	15.0	
17-Jun-2022	47.0	5.0	12.0	
18-Jun-2022	55.0	0.0	12.0	
19-Jun-2022	55.0	5.0	12.0	
20-Jun-2022	56.0	2.0	12.0	
21-Jun-2022	55.0	5.0	12.0	
22-Jun-2022	54.0	5.0	12.0	
23-Jun-2022	55.0	0.0	12.0	
24-Jun-2022	55.0	7.0	12.0	
25-Jun-2022	55.0	0.0	12.0	
26-Jun-2022	55.0	5.0	12.0	
27-Jun-2022	55.0	0.0	12.0	
28-Jun-2022	55.0	0.0	10.0	
29-Jun-2022	55.0	0.0	10.0	
30-Jun-2022	55.0	0.0	10.0	
TOTAL	1567.50	73.50	364.00	

Prepared by Checked by Approved by

SANMAR

Chemplast Sanmar Limited
Sanmar Speciality Chemicals Divn.

44 Theertham Road Berigai 635 105
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www.sanmargroup.com
CIN U24230TN1985PLC011637

YBG/RJ9/TNPCB/Monthly Report/8/2022
August-10, 2022

The Member Secretary
Tamil Nadu Pollution Control Board
100,Anna Salai, Guindy
Chennai – 600 032

Dear Sir

Sub: Monthly Progress Report July- 2022

Please find the monthly report for the month of July- 2022 as required in Consent under Air and Water Act issued to us.

1. Report on Sewage and Trade effluent handled:

Quantity of Sewage water generated (Treated in Sewage treatment plant followed by U.V System. Treated water used for Gardening)	: 348.00 KL
Quantity of lean effluent generated (Treated in Biological system followed by RO System. RO Permeate is reused in cooling tower make up and Process. RO Reject is treated in Multiple Effect Evaporator)	: 111.00 KL
Quantity of Concentrated effluent generated (Conc. Effluent Generated is treated and evaporated in Multiple Effect Evaporators. Condensate is recycled in Cooling tower make up) (Day wise generation provided in Annexure – 5)	: 1658.0 KL

2. The following analysis reports for the month of July- 2022 are enclosed for your perusal.

Treated Trade effluent analysis report by our laboratory	Annexure 1
Ambient Air Quality Survey	Annexure 2
Stack analysis of Boiler (6.0 T/hr) and other stacks	Annexure 3
Metrological data	Annexure 4
Day – Wise generation of concentrated waste, Lean Effluent and sewage water	Annexure 5

Thanking You,
Yours Faithfully,

For CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICAL DIVN

Senior Vice President-Operations
Authorized Signatory
Encl: Annexure 1,2,3,4 & 5
Cc:
The District Environmental Engineer
Tamil Nadu Pollution Control Board, HOSUR.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF July-2022

Date	COD	BOD	TDS	pH	Phenolic compounds	Cyanide content	REMARKS
	*250 ppm	*30 ppm	*2100 PPM	*5.5- 9.0			
1-Jul-2022	107	NA	120	7.0	BDL	BDL	
2-Jul-2022	199	NA	180	6.7	BDL	BDL	
3-Jul-2022	199	NA	180	6.8	BDL	BDL	
4-Jul-2022	31	NA	180	7.0	BDL	BDL	
5-Jul-2022	15	NA	280	7.3	BDL	BDL	
6-Jul-2022	15	NA	280	6.7	BDL	BDL	
7-Jul-2022	61	NA	280	7.5	BDL	BDL	
8-Jul-2022	31	NA	110	7.1	BDL	BDL	
9-Jul-2022	46	NA	40	7.0	BDL	BDL	
10-Jul-2022	46	NA	40	7.5	BDL	BDL	
11-Jul-2022	61	NA	140	7.4	BDL	BDL	
12-Jul-2022	92	NA	90	6.9	BDL	BDL	
13-Jul-2022	123	NA	100	7.0	BDL	BDL	
14-Jul-2022	46	NA	80	6.6	BDL	BDL	
15-Jul-2022	69	NA	92	7.0	BDL	BDL	
16-Jul-2022	69	NA	92	7.2	BDL	BDL	
17-Jul-2022	69	NA	92	6.8	BDL	BDL	
18-Jul-2022	69	NA	92	7.0	BDL	BDL	
19-Jul-2022	70	NA	125	6.9	BDL	BDL	
20-Jul-2022	123	NA	70	7.2	BDL	BDL	
21-Jul-2022	76	NA	80	7.3	BDL	BDL	
22-Jul-2022	92	NA	140	7.1	BDL	BDL	
23-Jul-2022	107	NA	180	7.4	BDL	BDL	
24-Jul-2022	107	NA	92	6.8	BDL	BDL	
25-Jul-2022	137	NA	160	7.1	BDL	BDL	
26-Jul-2022	153	NA	60	6.9	BDL	BDL	
27-Jul-2022	137	NA	160	7.2	BDL	BDL	
28-Jul-2022	137	NA	160	6.9	BDL	BDL	
29-Jul-2022	137	NA	180	7.2	BDL	BDL	
30-Jul-2022	108	NA	200	7.0	BDL	BDL	
31-Jul-2022	91	NA	135	7.3	BDL	BDL	

* TNPCB Limit

** RO plant stopped due to cleaning and maintenance

NA - Not analysed

COD - Chemical Oxygen Demand

BOD - Biological Oxygen Demand

TDS - Total Dissolved solids

BDL - Below Detectable Limit

ANALYSED BY	CHECKED BY	APPROVED BY

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:July-2022 FOR/SHE/044

WIND DIRECTION : East to SouthWest
DURATION OF SURVEY :24 HOURS

Station No.	Location of Sample	Temp °C	Relative Humudity %	Concentration µg/Nm³								Conc. in mg/Nm³	Conc. in ng/Nm³		
		Ambient		PM 10 µm	PM 2.5 µm	SO_2	NO_X	O_3	Pb	As	Ni	CO	NH_3	C_6H_6	BaP
NAAQS	ANNUAL			60	40	50	40		1	6	20		100	5	1
	24 HOURS			100	60	80	80		0.5				400		
	8 HOURS							100							
	1 HOUR							180							
1	NEAR CANTEEN AREA	32.0	59	46.9	18.5	11.2	16.4	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
2	NEAR TANK FARM AREA	32.0	59	55.2	24.4	9.4	19.9	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
3	NEAR PHYTO PLANT SECURITY GATE	32.0	59	50.0	21.5	15.1	24.7	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ

NAAQS → National Ambient Air Quality Standards.
PM10µm → PARTICULATE MATTER less than 10 µm
PM2.5µm → PARTICULATE MATTER less than 2.5 µm
SO2 → SULPHUR DIOXIDE
NOx → OXIDES OF NITROGEN
O3 → Ozone
Pb → Lead
NH3 → Ammonia
C6H6 → Benzene
CO → Carbon mono oxide
BaP → Benzo pyrene
As → Arsenic
Ni → Nickel

: BDL: Below Detection Limit
BLQ-Below Limit of Quantification
Note: Analysis carried out by Glens lab ,chennai

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 3 Anaysis Report For the month of July-2022

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C	CYANIDE AS CN mg/M3	Analysis Results				
			Ambient		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)	CYANIDEAS CN(mg/m3)
1	Boiler 6T/hr	--	32.00	NA	15.20	120.00	174.00	160.00	NA
2	Plant -4 Scrubber-101A	--	32.00	BDL	12.00	BDL	BDL	12	BDL
3	Plant -4 Scrubber-102		32.00	BDL	13.20	BDL	4.00	25.00	BDL
4	Plant -4 Scrubber-103	--	32.00	BDL	16.20	BDL	BDL	7.00	BDL
5	Plant -2 scrubber - 2	--	32.00	BDL	10.50	64.20	BDL	7.00	BDL

Note:Analysis carried out by Glens lab,chennai

BDL-Below detection limit

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN.BERIGAI.

Annexure 4

Weather report: Month of July-2022

Date	Temperature in Celsius		Relative Humidity			Wind		Rainfall (mm)
	Max. (in ^{0} C)	Min. (in ^{0} C)	Dry bulb in ^{0} F	Wet bulb in ^{0} F	Rh%	Velocity in km/hr	Direction	
1-Jul-2022	29	21	74	66	64	2.54	EW	0
2-Jul-2022	29	21	76	68	65	2.25	EW	0
3-Jul-2022	27	21	77	68	62	2.17	EW	0
4-Jul-2022	26	21	77	68	62	1.13	EW	2
5-Jul-2022	27	20	75	68	68	3.58	EW	0
6-Jul-2022	25	21	75	67	68	0.71	EW	2
7-Jul-2022	24	20	75	67	66	1.13	EW	5
8-Jul-2022	26	20	74	66	64	2.04	EW	13
9-Jul-2022	25	20	74	65	60	3.54	EW	9
10-Jul-2022	26	20	76	67	61	3.21	EW	0
11-Jul-2022	26	20	76	70	73	2.38	EW	7
12-Jul-2022	28	20	78	69	62	3.25	EW	0
13-Jul-2022	24	20	78	71	70	3.04	EW	0
14-Jul-2022	24	20	79	71	66	3.75	EW	5
15-Jul-2022	26	20	79	71	66	3.21	EW	0
16-Jul-2022	26	20	79	71	66	3.58	EW	5
17-Jul-2022	28	20	79	71	66	2.25	EW	0
18-Jul-2022	27	20	78	72	74	2.13	EW	0
19-Jul-2022	30	20	78	71	70	3.67	EW	0
20-Jul-2022	30	20	77	70	69	3.67	EW	20
21-Jul-2022	29	20	74	66	64	1.88	EW	0
22-Jul-2022	27	20	74	66	64	2.13	EW	0
23-Jul-2022	28	19	75	66	60	1.96	EW	0
24-Jul-2022	27	20	73	65	63	2.71	EW	0
25-Jul-2022	29	20	74	66	64	1.13	EW	0
26-Jul-2022	28	20	79	71	68	3.13	EW	0
27-Jul-2022	28	20	74	66	64	0.54	EW	2
28-Jul-2022	30	20	76	68	65	2.63	EW	0
29-Jul-2022	30	20	78	69	62	1.21	EW	0
30-Jul-2022	30	20	78	70	66	3.21	EW	9
31-Jul-2022	28	20	74	66	64	0.54	EW	18

Prepared by | Checked by | Approved by

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

BERIGAI - 635 105

Effluent Generated during the month of July-2022

ANNEXURE-5

Date	Conc.Effluent Generated (KL)	Lean Effluent Generated (KL)	Sewage effluent Generated (KL)	Remarks
1-Jul-2022	47.0	3.0	6.0	
2-Jul-2022	52.0	5.0	10.0	
3-Jul-2022	53.0	0.0	12.0	
4-Jul-2022	53.0	0.0	10.0	
5-Jul-2022	32.0	5.0	12.0	
6-Jul-2022	22.0	10.0	12.0	
7-Jul-2022	55.0	6.0	12.0	
8-Jul-2022	55.0	5.0	12.0	
9-Jul-2022	55.0	0.0	12.0	
10-Jul-2022	55.0	0.0	12.0	
11-Jul-2022	55.0	7.0	12.0	
12-Jul-2022	55.0	5.0	12.0	
13-Jul-2022	55.0	0.0	10.0	
14-Jul-2022	55.0	0.0	12.0	
15-Jul-2022	55.0	5.0	12.0	
16-Jul-2022	55.0	2.0	10.0	
17-Jul-2022	55.0	5.0	12.0	
18-Jul-2022	55.0	5.0	12.0	
19-Jul-2022	55.0	0.0	10.0	
20-Jul-2022	57.0	8.0	14.0	
21-Jul-2022	57.0	0.0	10.0	
22-Jul-2022	57.0	7.0	12.0	
23-Jul-2022	57.0	3.0	12.0	
24-Jul-2022	57.0	7.0	12.0	
25-Jul-2022	57.0	2.0	12.0	
26-Jul-2022	57.0	0.0	12.0	
27-Jul-2022	57.0	6.0	6.0	
28-Jul-2022	57.0	0.0	12.0	
29-Jul-2022	57.0	10.0	12.0	
30-Jul-2022	57.0	0.0	10.0	
31-Jul-2022	57.0	5.0	12.0	
TOTAL	1658.00	111.00	348.00	

Prepared by Checked by Approved by

SANMAR

Chemplast Sanmar Limited
Sanmar Speciality Chemicals Divn.

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CIN U24230TN1985PLC011037

YBG/RJB/TNPCB/Monthly report/9/2022
SEPTEMBER-09, 2022

The Member Secretary
Tamil Nadu Pollution Control Board
100,Anna Salai, Guindy
Chennai – 600 032

Dear Sir

Sub: Monthly Progress Report AUGUST- 2022

Please find the monthly report for the month of AUGUST- 2022 as required in Consent under Air and Water Act issued to us.

1. Report on Sewage and Trade effluent handled:

Quantity of Sewage water generated (Treated in Sewage treatment plant followed by U.V System. Treated water used for Gardening)	: 362.0 KL
Quantity of lean effluent generated (Treated in Biological system followed by RO System. RO Permeate is reused in cooling tower make up and Process. RO Reject is treated in Multiple Effect Evaporator)	: 110.0KL
Quantity of Concentrated effluent generated (Conc. Effluent Generated is treated and evaporated in Multiple Effect Evaporators. Condensate is recycled in Cooling tower make up) (Day wise generation provided in Annexure – 5)	: 1650.0Kl.

2. The following analysis reports for the month of AUGUST- 2022 are enclosed for your perusal.

Treated Trade effluent analysis report by our laboratory	Annexure 1
Ambient Air Quality Survey	Annexure 2
Stack analysis of Boiler (6.0 T/hr) and other stacks	Annexure 3
Metrological data	Annexure 4
Day – Wise generation of concentrated waste, Lean Effluent and sewage water	Annexure 5

Thanking You,
Yours Faithfully,

For CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICAL DIVN

Senior Vice President-Operations
Authorized Signatory
Encl: Annexure 1,2,3,4 & 5
Cc:
The District Environmental Engineer
Tamil Nadu Pollution Control Board, HOSUR

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Bertgal

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF August-2022

Date	COD	BOD	TDS	pH	Phenolic compounds	Cyanide content	REMARKS
	*250 ppm	*30 ppm	*2100 PPM	*5.5- 9.0			
1-Aug-2022	192	NA	1480	6.4	BDL	BDL	
2-Aug-2022	107	NA	1860	6.4	BDL	BDL	
3-Aug-2022	92	NA	1200	6.1	BDL	BDL	
4-Aug-2022	123	NA	1860	6.4	BDL	BDL	
5-Aug-2022	92	NA	1690	6.7	BDL	BDL	
6-Aug-2022	192	NA	1060	6.0	BDL	BDL	
7-Aug-2022	192	NA	1060	6.0	BDL	BDL	
8-Aug-2022	137	NA	905	6.6	BDL	BDL	
9-Aug-2022	92	NA	800	6.4	BDL	BDL	
10-Aug-2022	77	NA	1260	6.1	BDL	BDL	
11-Aug-2022	122	NA	1860	6.6	BDL	BDL	
12-Aug-2022	169	NA	920	6.8	BDL	BDL	
13-Aug-2022	138	NA	1740	6.3	BDL	BDL	
14-Aug-2022	138	NA	1740	6.3	BDL	BDL	
15-Aug-2022	123	NA	1150	6.6	BDL	BDL	
16-Aug-2022	92	NA	1740	6.2	BDL	BDL	
17-Aug-2022	215	NA	1500	6.3	BDL	BDL	
18-Aug-2022	168	NA	1760	6.5	BDL	BDL	
19-Aug-2022	211	NA	1160	6.8	BDL	BDL	
20-Aug-2022	187	NA	1280	6.2	BDL	BDL	
21-Aug-2022	187	NA	1280	6.2	BDL	BDL	
22-Aug-2022	162	NA	1480	6.5	BDL	BDL	
23-Aug-2022	120	NA	1120	6.3	BDL	BDL	
24-Aug-2022	120	NA	1120	6.3	BDL	BDL	
25-Aug-2022	120	NA	1000	6.6	BDL	BDL	
26-Aug-2022	78	NA	1680	6.0	BDL	BDL	
27-Aug-2022	165	NA	440	6.4	BDL	BDL	
28-Aug-2022	165	NA	440	6.4	BDL	BDL	
29-Aug-2022	182	NA	940	6.8	BDL	BDL	
30-Aug-2022	94	NA	780	6.2	BDL	BDL	
31-Aug-2022	188	NA	840	6.6	BDL	BDL	

* TNPCB Limit

** RO plant stopped due to cleaning and maintenance

NA - Not analysed

COD - Chemical Oxygen Demand

BOD - Biological Oxygen Demand

TDS - Total Dissolved solids

BDL - Below Detectable Limit

ANALYSED BY	CHECKED BY	APPROVED BY

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:AUGUST-2022 FOR/SHE/044

WIND DIRECTION : East to SouthWest

DURATION OF SURVEY :24 HOURS

Station No.	Location of Sample	Temp °C	Relative Humudity %	Concentration µg/Nm³								Conc. in mg/Nm³	Conc. in ng/Nm³		
		Ambient		PM 10 µm	PM 2.5 µm	SO_2	NO_X	O_3	Pb	As	Ni	CO	NH_3	C_6H_6	BaP
NAAQS	ANNUAL			60	40	50	40		1	6	20		100	5	1
	24 HOURS			100	60	80	80		0.5				400		
	8 HOURS							100							
	1 HOUR							180							
1	NEAR CANTEEN AREA	31.6	58.8	50.7	19.2	10.2	24.3	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
2	NEAR TANK FARM AREA	31.6	58.8	53.8	22.2	8.0	16.8	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
3	NEAR PHYTO PLANT SECURITY GATE	31.6	58.6	52.1	18.3	12.6	20.9	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
4	NEAR ETP PLANT	32.0	58.6	48.3	18.1	14.0	22.6	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ

NAAQS → National Ambient Air Quality Standards.
PM10µm → PARTICULATE MATTER less than 10 µm
PM2.5µm → PARTICULATE MATTER less than 2.5 µm
SO2 → SULPHUR DIOXIDE
NOx → OXIDES OF NITROGEN
O3 → Ozone
Pb → Lead
NH3 → Ammonia
C6H6 → Benzene
CO → Carbon mono oxide
BaP → Benzo pyrene
As → Arsenic
Ni → Nickel

: BDL: Below Detection Limit
BLQ-Below Limit of Quantification
Note: Analysis carried out by Glens lab ,chennai

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 3 Anaysis Report For the month of August-2022

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C	CYANIDE AS CN mg/M3	Analysis Results				
			Ambient		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)	CYANIDEAS CN(mg/m3)
1	Boiler 6T/hr	–	32.00	NA	16.60	97.00	161.00	125.00	NA
2	Plant -4 Scrubber-101A	-	32.00	BDL	10.70	BDL	BDL	BDL	BDL
3	Plant -4 Scrubber-102		32.00	BDL	12.50	BDL	BDL	BDL	BDL
4	Plant -4 Scrubber-103	–	32.00	BDL	13.70	BDL	BDL	BDL	BDL

Note:Analysis carried out by Glens lab,chennai

BDL-Below detection limit

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN.BERIGAI.

Annexure 4

Weather report: Month of August-2022

Date	Temperature in Celsius		Relative Humidity			Wind		Rainfall (mm)
	Max. (in ^{0} C)	Min. (in ^{0} C)	Dry bulb in ^{0} F	Wet bulb in ^{0} F	Rh%	Velocity in km/hr	Direction	
1-Aug-2022	29	21	75	68	68	3.21	EW	21
2-Aug-2022	27	20	75	67	66	3.58	EW	11
3-Aug-2022	26	20	75	67	66	2.26	EW	118
4-Aug-2022	24	20	74	66	64	2.13	EW	9
5-Aug-2022	23	20	74	65	60	3.67	EW	8
6-Aug-2022	24	20	76	67	61	3.67	EW	3
7-Aug-2022	24	20	76	70	73	1.88	EW	1
8-Aug-2022	24	20	78	69	62	2.13	EW	0
9-Aug-2022	25	20	78	71	70	1.96	EW	3
10-Aug-2022	26	20	79	71	66	2.71	EW	0
11-Aug-2022	26	19	79	71	66	1.13	EW	0
12-Aug-2022	27	20	79	71	66	3.13	EW	0
13-Aug-2022	27	20	79	71	66	0.54	EW	0
14-Aug-2022	28	19	78	72	74	2.63	EW	0
15-Aug-2022	29	20	78	71	70	1.21	EW	0
16-Aug-2022	30	20	77	70	69	3.21	EW	0
17-Aug-2022	30	21	74	66	64	0.54	EW	0
18-Aug-2022	30	20	74	66	64	2.54	EW	0
19-Aug-2022	30	20	75	66	60	2.25	EW	0
20-Aug-2022	30	20	73	65	63	2.17	EW	0
21-Aug-2022	28	20	79	71	66	1.13	EW	1
22-Aug-2022	28	20	74	66	64	3.58	EW	3
23-Aug-2022	29	20	76	68	65	0.71	EW	2
24-Aug-2022	28	20	78	69	62	1.13	EW	6
25-Aug-2022	28	20	78	70	66	2.04	EW	62
26-Aug-2022	27	20	74	66	64	3.54	EW	33
27-Aug-2022	27	20	74	66	64	3.21	EW	42
28-Aug-2022	28	20	76	68	65	2.38	EW	17
29-Aug-2022	27	20	77	68	62	3.25	EW	87
30-Aug-2022	28	20	77	68	62	3.04	EW	9
31-Aug-2022	26	20	74	66	64	3.75	EW	0

Prepared by | Checked by | Approved by

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigal

BERIGAI - 635 105

Effluent Generated during the month of August-2022

ANNEXURE-5

Date	Conc.Effluent Generated (KL)	Lean Effluent Generated (KL)	Sewage effluent Generated (KL)	Remarks
1-Aug-2022	51.0	3.0	10.0	
2-Aug-2022	49.0	5.0	15.0	
3-Aug-2022	57.0	8.0	11.0	
4-Aug-2022	57.0	5.0	12.0	
5-Aug-2022	57.0	2.0	10.0	
6-Aug-2022	56.0	5.0	11.0	
7-Aug-2022	57.0	0.0	12.0	
8-Aug-2022	57.0	4.0	14.0	
9-Aug-2022	57.0	5.0	12.0	
10-Aug-2022	57.0	0.0	12.0	
11-Aug-2022	57.0	0.0	12.0	
12-Aug-2022	51.0	0.0	12.0	
13-Aug-2022	57.0	5.0	10.0	
14-Aug-2022	57.0	2.0	12.0	
15-Aug-2022	57.0	8.0	12.0	
16-Aug-2022	55.0	0.0	12.0	
17-Aug-2022	57.0	0.0	12.0	
18-Aug-2022	52.0	0.0	12.0	
19-Aug-2022	30.0	2.0	12.0	
20-Aug-2022	30.0	0.0	10.0	
21-Aug-2022	57.0	0.0	12.0	
22-Aug-2022	57.0	0.0	12.0	
23-Aug-2022	50.0	4.0	12.0	
24-Aug-2022	35.0	12.0	11.0	
25-Aug-2022	57.0	5.0	10.0	
26-Aug-2022	57.0	5.0	10.0	
27-Aug-2022	57.0	5.0	12.0	
28-Aug-2022	57.0	5.0	12.0	
29-Aug-2022	55.0	5.0	12.0	
30-Aug-2022	55.0	7.0	12.0	
31-Aug-2022	55.0	8.0	12.0	
TOTAL	1650.00	110.00	362.00	

Prepared by Checked by Approved by

SANMAR

Chemplast Sanmar Limited
Sanmar Speciality Chemicals Divn.

44 Theertham Road Berigai 635 105
Shoolagiri Taluk Krishnagiri District Tamil Nadu India
Tel + 91 4344 253 005
www.sanmargroup.com
CIN U24230TN1985PLC011837

YBG/RJS/TNPCB/Monthly report/10/2022
OCTOBER-10, 2022

The Member Secretary
Tamil Nadu Pollution Control Board
100,Anna Salai, Guindy
Chennai – 600 032

Dear Sir

Sub: Monthly Progress Report SEPTEMBER-2022

Please find the monthly report for the month of SEPTEMBER- 2022 as required in Consent under Air and Water Act issued to us.

1. Report on Sewage and Trade effluent handled:

Quantity of Sewage water generated (Treated in Sewage treatment plant followed by U.V System. Treated water used for Gardening)	: 354.0 KL
Quantity of lean effluent generated (Treated in Biological system followed by RO System. RO Permeate is reused in cooling tower make up and Process. RO Reject is treated in Multiple Effect Evaporator)	: 133.0KL
Quantity of Concentrated effluent generated (Conc. Effluent Generated is treated and evaporated in Multiple Effect Evaporators. Condensate is recycled in Cooling tower make up) (Day wise generation provided in Annexure – 5)	: 1425.5KL

2. The following analysis reports for the month of SEPTEMBER- 2022 are enclosed for your perusal.

Treated Trade effluent analysis report by our laboratory	Annexure 1
Ambient Air Quality Survey	Annexure 2
Stack analysis of Boiler (6.0 T/hr) and other stacks	Annexure 3
Metrological data	Annexure 4
Day – Wise generation of concentrated waste, Lean Effluent and sewage water	Annexure 5

Thanking You,
Yours Faithfully,

For CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICAL DIVN

Senior Vice President-Operations
Authorized Signatory
Encl: Annexure 1,2,3,4 & 5
Cc:
The District Environmental Engineer
Tamil Nadu Pollution Control Board, HOSUR.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Bertgal

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF September-2022

Date	COD	BOD	TDS	pH	Phenolic compounds	Cyanide content	REMARKS
	*250 ppm	*30 ppm	*2100 PPM	*6.5- 9.0			
1-Sep-2022	175	NA	1060	6.8	BDL	BDL	
2-Sep-2022	170	NA	1040	6.1	BDL	BDL	
3-Sep-2022	169	NA	1200	6.9	BDL	BDL	
4-Sep-2022	163	NA	1860	6.5	BDL	BDL	
5-Sep-2022	170	NA	1560	6.8	BDL	BDL	
6-Sep-2022	109	NA	1260	6.0	BDL	BDL	
7-Sep-2022	110	NA	1420	6.7	BDL	BDL	
8-Sep-2022	131	NA	1400	6.5	BDL	BDL	
9-Sep-2022	107	NA	1400	6.1	BDL	BDL	
10-Sep-2022	46	NA	1660	7.1	BDL	BDL	
11-Sep-2022	131	NA	1380	6.9	BDL	BDL	
12-Sep-2022	30	NA	1860	6.6	BDL	BDL	
13-Sep-2022	131	NA	1480	6.8	BDL	BDL	
14-Sep-2022	148	NA	1220	6.9	BDL	BDL	
15-Sep-2022	185	NA	1380	6.1	BDL	BDL	
16-Sep-2022	154	NA	1020	6.4	BDL	BDL	
17-Sep-2022	197	NA	1460	6.6	BDL	BDL	
18-Sep-2022	144	NA	1420	6.2	BDL	BDL	
19-Sep-2022	151	NA	1960	6.8	BDL	BDL	
20-Sep-2022	163	NA	1820	6.1	BDL	BDL	
21-Sep-2022	106	NA	1720	6.8	BDL	BDL	
22-Sep-2022	93	NA	1150	6.6	BDL	BDL	
23-Sep-2022	179	NA	900	6.2	BDL	BDL	
24-Sep-2022	122	NA	980	6.8	BDL	BDL	
25-Sep-2022	148	NA	1020	6.5	BDL	BDL	
26-Sep-2022	197	NA	1840	6.8	BDL	BDL	
27-Sep-2022	144	NA	1340	6.1	BDL	BDL	
28-Sep-2022	151	NA	1460	6.8	BDL	BDL	
29-Sep-2022	197	NA	1420	7.0	BDL	BDL	
30-Sep-2022	197	NA	1960	6.8	BDL	BDL	

* TNPCB Limit

** RO plant stopped due to cleaning and maintenance

NA - Not analysed

COD - Chemical Oxygen Demand

BOD - Biological Oxygen Demand

TDS - Total Dissolved solids

BDL - Below Detectable Limit

ANALYSED BY	CHECKED BY	APPROVED BY

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Benigal

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:September-2022

WIND DIRECTION : East to SouthWest

DURATION OF SURVEY :24 HOURS

FOR/SHE/044

Station No.	Location of Sample	Temp °C	Relative Humidity %	Concentration µg/Nm³								Conc. in mg/Nm³	Conc. in ng/Nm³		
		Ambient		PM 10 µm	PM 2.5 µm	SO_2	NO_x	O_3	Pb	As	Ni	CO	NH_3	C_6H_6	BaP
NAAQS	ANNUAL			60	40	50	40		1	6	20		100	5	1
	24 HOURS			100	60	80	80		0.5				400		
	8 HOURS							100							
	1 HOUR							180							
1	NEAR CANTEEN AREA	27.9	65.5	55.0	28.0	5.4	14.0	BLQ	BLQ	BLQ	BLQ	0.286	BLQ	BLQ	BLQ
2	NEAR TANK FARM AREA	27.9	65.5	50.0	24.0	8.2	20.0	BLQ	BLQ	BLQ	BLQ	0.303	BLQ	BLQ	BLQ
3	NEAR PHYTO PLANT SECURITY GATE	27.9	65.5	63.0	32.0	9.9	24.0	BLQ	BLQ	BLQ	BLQ	0.324	BLQ	BLQ	BLQ
4	NEAR ETP PLANT	27.9	65.5	74.0	40.0	12.3	30.0	BLQ	BLQ	BLQ	BLQ	0.349	BLQ	BLQ	BLQ
5	NEAR LAND FILL AREA	27.9	65.5	43.0	20.0	BLQ	BLQ	BLQ	BLQ	BLQ	BLQ	0.252	BLQ	BLQ	BLQ

NAAQS → National Ambient Air Quality Standards.
PM10µm → PARTICULATE MATTER less than 10 µm
PM2.5µm → PARTICULATE MATTER less than 2.5 µm
SO2 → SULPHUR DIOXIDE
NOx → OXIDES OF NITROGEN
O3 → Ozone
Pb → Lead
NH3 → Ammonia
C6H6 → Benzene
CO → Carbon mono oxide
BaP → Benzo pyrene
As → Arsenic
Ni → Nickel

: BDL: Below Detection Limit

BLQ-Below Limit of Quantification

Note: Analysis carried out by Glens lab ,chennai

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigal

Annexure - 3 Anaysis Report For the month of September-2022

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C	CYANIDE AS CN mg/M3	Analysis Results				
			Amblent		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)	CYANIDEAS CN(mg/m3)
1	Boiler 6T/hr	--	28.00	NA	75.00	634.00	306.00	102.00	NA
2	Plant -4 Scrubber-101A	--	26.00	BDL	BDL	BDL	BDL	20.00	BDL
3	Plant -4 Scrubber-102	--	27.00	BDL	BDL	BDL	BDL	17.00	BDL
4	Plant -4 Scrubber-103	--	27.00	BDL	BDL	BDL	BDL	23.00	BDL
5	Plant-2 Scrubber 2	--	29.00	BDL	BDL	BDL	BDL	32.00	BDL

Note:Analysis carried out by Nawal Analytical Laboratories, Hosur

BDL-Below detection limit

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN.BERIGAI.

Annexure 4

Weather report: Month of September-2022

Date	Temperature in Celsius		Relative Humidity			Wind		Rainfall (mm)
	Max. (in ^{0} C)	Min. (in ^{0} C)	Dry bulb In ^{0} F	Wet bulb In ^{0} F	Rh%	Velocity in km/hr	Direction	
1-Sep-2022	29	21	76	68	65	2.38	EW	12
2-Sep-2022	27	20	77	68	62	3.25	EW	0
3-Sep-2022	26	20	77	68	62	3.04	EW	0
4-Sep-2022	24	20	75	68	68	3.21	EW	15
5-Sep-2022	23	20	75	67	66	3.58	EW	10
6-Sep-2022	24	20	75	67	66	2.25	EW	25
7-Sep-2022	24	20	74	66	64	2.13	EW	2
8-Sep-2022	24	20	74	65	60	3.67	EW	0
9-Sep-2022	25	20	76	67	61	3.67	EW	2
10-Sep-2022	26	20	76	70	73	1.88	EW	0
11-Sep-2022	26	19	78	69	62	2.13	EW	0
12-Sep-2022	27	20	74	66	64	0.54	EW	0
13-Sep-2022	27	20	74	66	64	2.54	EW	0
14-Sep-2022	28	19	75	66	60	2.25	EW	0
15-Sep-2022	28	20	73	65	63	2.17	EW	0
16-Sep-2022	30	20	79	71	66	1.13	EW	0
17-Sep-2022	30	21	74	66	64	3.58	EW	0
18-Sep-2022	30	20	76	68	66	0.71	EW	0
19-Sep-2022	30	20	78	69	62	1.13	EW	0
20-Sep-2022	30	20	78	70	66	2.04	EW	0
21-Sep-2022	28	20	74	66	64	3.54	EW	0
22-Sep-2022	28	20	74	66	64	3.21	EW	0
23-Sep-2022	29	20	76	68	66	2.38	EW	0
24-Sep-2022	28	20	77	68	62	3.25	EW	0
25-Sep-2022	28	20	77	68	62	3.04	EW	0
26-Sep-2022	27	20	79	71	66	3.13	EW	0
27-Sep-2022	27	20	79	71	66	0.54	EW	0
28-Sep-2022	28	21	78	72	74	2.10	EW	2
29-Sep-2022	27	20	78	71	70	1.21	EW	0
30-Sep-2022	28	20	77	70	69	3.21	EW	15

Prepared by	Checked by	Approved by

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

BERIGAI - 635 105

Effluent Generated during the month of Saptembar-2022

ANNEXURE-5

Date	Conc.Effluent Generated (KL)	Lean Effluent Generated (KL)	Sewage effluent Generated (KL)	Remarks
1-Sep-2022	22.0	5.0	12.0	
2-Sep-2022	61.0	5.0	12.0	
3-Sep-2022	49.0	5.0	12.0	
4-Sep-2022	47.5	5.0	12.0	
5-Sep-2022	47.5	10.0	12.0	
6-Sep-2022	47.5	3.0	10.0	
7-Sep-2022	41.0	5.0	12.0	
8-Sep-2022	49.0	10.0	12.0	
9-Sep-2022	49.0	2.0	12.0	
10-Sep-2022	49.0	8.0	12.0	
11-Sep-2022	49.0	3.0	12.0	
12-Sep-2022	44.0	5.0	12.0	
13-Sep-2022	45.0	0.0	8.0	
14-Sep-2022	45.0	0.0	12.0	
15-Sep-2022	40.5	0.0	12.0	
16-Sep-2022	49.0	2.0	12.0	
17-Sep-2022	48.0	2.0	12.0	
18-Sep-2022	49.0	7.0	12.0	
19-Sep-2022	41.0	0.0	12.0	
20-Sep-2022	49.0	2.0	12.0	
21-Sep-2022	30.0	0.0	14.0	
22-Sep-2022	18.0	4.0	12.0	
23-Sep-2022	57.0	0.0	12.0	
24-Sep-2022	59.0	7.0	12.0	
25-Sep-2022	57.0	2.0	12.0	
26-Sep-2022	56.0	8.0	12.0	
27-Sep-2022	57.0	3.0	10.0	
28-Sep-2022	57.0	7.0	12.0	
29-Sep-2022	55.5	20.0	12.0	
30-Sep-2022	57.0	3.0	12.0	
TOTAL	1425.50	133.00	354.00	

Prepared by Checked by Approved by

ANNEXURE - 2

Central Ground Water Authority

Ministry of Water Resources
Government of India

No. 21-4(134)/SECR/CGWA/2009-3708 Dated- 01 JUN 2012

To,

M/s Sanmer Speciality Chemicals Ltd.,
44, Theertham road Berigai-635105
Hosur Taluk, Krishnagiri District
Tamil Nadu

Sub: Renewal of Ground Water clearance in respect of M/s Sanmer Speciality Chemicals Ltd., for their organic chemicals & phytochemicals manufacturing industry located at Village Sulliguntа, Block Sulligiri, Taluk Hosur, District Krishnagiri, Tamil Nadu - reg.

Sir,

It has been decided by the Central Ground Water Authority that NOC would be issued only once and renewal is stopped/ discontinued. There would be random site inspection of selected industries by CGWA, and in case the industry is found to be a defaulter in adhering to the laid down terms and conditions, the NOC is to be cancelled.

However, to neutralize the adverse impact of ground water withdrawal that may arise on a long term basis, the industry is advised to undertake the following measures:

1. Ground Water withdrawal shall not exceed the quantity of 207.5 m^3/day.
2. All abstraction structures to be kept fitted with water meter by the industry and monitoring of ground water abstraction to be continued accordingly on regular basis, at least once in a month. The data may be submitted on a yearly basis to the Regional Director, Central Ground Water Board, South Eastern Coastal Region, Chennai for perusal and records.
3. The industry should continue to implement artificial recharge measures/rain water harvesting measures for augmenting the ground water resources of the area.
4. The industry shall ensure proper conservation measures, recycling and reuse of waste water after adequate treatment.
5. The industry shall continue to monitor the ambient ground water regime of the area through piezometers and submit the data on a yearly basis to the Regional Director, Central Ground Water Board, South Eastern Coastal Region, Chennai for perusal and records.

Yours faithfully,

Regional Director

Copy for information to the:

1. Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai-600032, Tamil Nadu with a request to ensure that Rain Water Harvesting and Artificial Recharge methods are being implemented by the firm and quantity of withdrawal is not exceeding 207.5 m^3/day.
2. Regional Director, Central Ground Water Board, South Eastern Coastal Region, Chennai. This has reference to your letter No. T/8/46-847 dated 7.5.2012.
3. TS to Chairman, Central Ground Water Board, NH-IV, Faridabad.

Regional Director

West Block-2, Wing-3, Ground Floor, R. K. Puram, Sector-1, New Delhi-110066
Tel: (011) 26175377, 26175379, 26175373; Fax (011) 26175369 e-mail: tsmsml-cgwb@nic.in, web site: http://cgwb.gov.in

ANNEXURE - 3

NAWAL ANALYTICAL LABORATORIES

Accredited & Recognized by ISO/IEC 17025:2017, EIC, BIS, ISSM, APEDA, AGMARK, MSME & ISO 9001:2015

ULR NO. TC583422000046026F	Date 25/10/2022

Sample ID No.	: NAL/202210EN00007124
Discipline / Group	: Chemical / Atmospheric Pollution
Name of the Customer	: SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	: #44, Suligunta Village, Theertham Road, Berigai-635 105.
Source of the Monitoring	: STACK EMISSION
Requested by	: Mr. Jayakumar - Environment
Date of Monitoring	: 21.10.2022
Stack Attached to	: BOILER
Ambient Temperature	: 28°C
Flue Gas Temperature	: 173°C (in sampling point)
Velocity of Flue Gas	: 5.24 m/Sec
Volumetric flow rate	: 9486 m^3/hr
Stack Area	: 0.5080 sq.mt
Observation during Monitoring	: Full Operation Level.
Customer Reference	: By Letter Dated 21/10/2022
Date of Sample Receipt	: 22/10/2022
Date of Test Starting	: 22/10/2022
Date of Test Completed	: 23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	Specifications	TEST PROTOCOL
1	Particulate Matter as PM	mg/m3	86.0	150.0	IS 11255(P-1) 1985
2	Sulfur Di oxide as SO2	mg/m3	671.0	N/A	IS 11255(P-2) 1985
3	Oxide of Nitrogen as NO2	mg/m3	325.0	N/A	IS 11255(P-7) 2005
4	Carbon Monoxide as CO	mg/m3	119.0	N/A	NAL/CHE/SOP/EN001

Note : Instrument used for Sampling, Envirotech Stack Sampler VSS 1, Calibration validity 01.06.2023.

For NAWAL Analytical Laboratories

NAWAL ANALYTICAL LABORATORIES HOSUR Ph: 2460411

Authorized Signatory
S.Elumalai
Deputy Technical Manager

End of Report

ULR NO. TC5334220000460277	Date: 25/10/2022

Sample ID No.	:	NAL/2022/10EN00007128
Discipline / Group	:	Chemical / Atmospheric Pollution
Name of the Customer	:	SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	:	#44, Sulliguntа Village, Theertham Road, Berigai-635 108.
Source of the Monitoring	:	STACK EMISSION
Requested by	:	Mr. Jayakumar – Environment
Date of Monitoring	:	21.10.2022
Stack Attached to	:	SCRUBBER-101 A
Ambient temperature	:	27°C
Flue Gas Temperature	:	42°C (In sampling point)
Velocity of Flue Gas	:	7.18 m/Sec
Volumetric Flow rate	:	480 m³/hr
Stack area	:	0.0176 sq.mt
Observation during Monitoring	:	Full Operation Level.
Customer Reference	:	By Letter Dated 21/10/2022
Date of Sample Receipt	:	22/10/2022
Date of Test Starting	:	22/10/2022
Date of Test Completed	:	23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Particulate Matter as PM	mg/m3	BLQ(LOQ-5.0)	IS 11255(P-1),1985
2	Sulfur Di oxide as SO2	mg/m3	BLQ(LOQ-3.0)	IS 11255(P-2),1985
3	Oxide of Nitrogen as NO2	mg/m3	BLQ(LOQ-9.0)	IS 11255(P-7), 2005
4	Carbon Monoxide as CO	mg/m3	16.0	NAL/CHE/SOP/EN001

Note: BLQ-Below Limit of Quantification, LOQ- Limit of Quantification Instrument used for Sampling, Envirotech Stack Sampler VSS-1, Calibration validity: 01.06.2023.

For NAWaL Analytical Laboratories

NAWaL ANALYTICAL LABORATORIES HOSUR Ph. 245841

Authorised Signatory
S.Elamathi
Deputy Technical Manager

End of Report

Report No. TC983422000046027	Date. 25/10/2022

Sample ID No.	: NAL/202210EN00007125
Discipline / Group	: Chemical / Atmospheric Pollution
Name of the Customer	: SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	: #44, Suligunta Village, Thoortham Road, Berigili-635 105.
Source of the Monitoring	: STACK EMISSION
Requested by	: Mr. Jayakumar - Environment
Date of Monitoring	: 21.10.2022
Stack Attached to	: SCRUBBER-101 A
Ambient Temperature	: 27°C
Flue Gas Temperature	: 42°C (in sampling point)
Velocity of Flue Gas	: 7.10 m/Sec
Volumetric Flow rate	: 456 m³/hr
Stack area	: 0.0176 sq.mt
Observation during Monitoring	: Full Operation Level.
Customer Reference	: By letter Dated 21/10/2022
Date of Sample Receipt	: 22/10/2022
Date of Test Starting	: 22/10/2022
Date of Test Completed	: 23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Cyanide	mg/m3	BLQ(LOQ-1.0)	EPA Method

Note: BLQ-Below Limit of Quantification, LOQ- Limit of Quantification Instrument used for Sampling, Envirotech Stack Sampler VSS 1, Calibration validity 01.08.2023.

For NAWaL Analytical Laboratories

NAWaL ANALYTICAL LABORATORIES HOSUR Ph. 245841

Authorized Signatory
S.Kumarth
Deputy Technical Manager

End of Report

Regd. Office & Lab: Plot No: 98-A1,100 & 109 New SIDCO Industrial Estate, Sri Nagar, Hosur - 635109, Tamil Nadu.
Phone: 04344 - 245841, 8894785841, E-mail: ecogreen.labs@gmail.com, green_balu74@yahoo.com
Marketing Office: No.10, 1st Floor, The commodity Exchange Building, Plot No: 2, 3 & 4, Sector-19A, Vashi, Navi Mumbai - 400 705, Maharashtra

ULR NO. TC588422000046028F	Date: 25/10/2022

Sample ID No.	: NAL/202210EN00007126
Discipline / Group	: Chemical / Atmospheric Pollution
Name of the Customer	: SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	: #44, Suligunta Village, Theerthan Road, Berigai-635 105.
Source of the Monitoring	: STACK EMISSION
Requested by	: Mr. Jayakumar – Environment
Date of Monitoring	: 21.10.2022
Stack Attached to	: SCRUBBER-102
Ambient temperature	: 28°C
Flue Gas Temperature	: 34°C (at sampling point)
Velocity of Flue Gas	: 8.27 m/Sec
Volumetric Flow rate	: 4946 m³/hr
Stack area	: 0.2291 sq.mt
Observation during Monitoring	: Full Operation Level.
Customer Reference	: By Letter Dated 21/10/2022
Date of Sample Receipt	: 22/10/2022
Date of Test Starting	: 22/10/2022
Date of Test Completed	: 23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Particulate Matter as PM	mg/m3	BLQ(LOQ-5.0)	IS 11255(P-1):1985
2	Sulfur Di oxide as SO2	mg/m3	BLQ(LOQ-3.0)	IS 11255(P-2):1985
3	Oxide of Nitrogen as NO2	mg/m3	BLQ(LOQ-6.0)	IS. 11255(P-7):2005
4	Carbon Monoxide as CO	mg/m3	25.0	NAL/CHE/SOP/EN001

NOTE: BLQ-Below Limit of Quantification, LOQ- Limit of Quantification Instrument used for Sampling: Envirotech Stack Sampler VSS 1, Calibration validity 01.06.2023.

For NAWAL Analytical Laboratories

NAWAL ANALYTICAL LABORATORIES HOSUR Ph: 245341

Authorized Signatory
S.Elumathi
Deputy Technical Manager

End of Report

NAWaL Analytical Laboratories 198447

Test Report

Recognized by: BIS, MoEF, Approved by AGMARK & Certified as per ISO 9001:2015, ISO 45001: 2018

Report No. TC583422000046028	Date: 25/10/2022

Sample ID No.	: NAL/2022100N00007126
Discipline / Group	: Chemical / Atmospheric Pollution
Name of the Customer	: SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	: #44, Suligunta Village, Theertham Road, Berigai-635 108.
Source of the Monitoring	: STACK EMISSION
Requested by	: Mr. Jayakumar - Environment
Date of Monitoring	: 21.10.2022
Stack Attached to	: SCRUBBER-102
Ambient Temperature	: 28°C
Flue Gas Temperature	: 34°C (in sampling point)
Velocity of Flue Gas	: 5.27 m/Sec
Volumetric Flow rate	: 4346 m³/hr
Stack area	: 0.2291 sq.mt
Observation during Monitoring	: Full Operation Level.
Customer Reference	: By Letter Dated 21/10/2022
Date of Sample Receipt	: 22/10/2022
Date of Test Starting	: 22/10/2022
Date of Test Completed	: 23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Cyanide	mg/m3	BLQ(LOQ-1.0)	EPA Method

Note : BLQ-Below Limit of Quantification, LOQ- Limit of Quantification Instrument used for Sampling EnviMech Stack Sampler VSS 1, Calibration validity 01.06.2023.

For NAWaL Analytical Laboratories

NAWaL ANALYTICAL LABORATORIES HOSUR Ph: 245341

Authorized Signatory
S.Elamathi
Deputy Technical Manager

End of Report

Regd. Office & Lab: Plot No: 98-A1,100 & 109 New SIDCO Industrial Estate, Sri Nagar, Hosur - 635109, Tamil Nadu
Phone: 04344 - 245341, 9894765841 E-mail: ecogreen.labs@gmail.com, green_babu74@yahoo.com
Marketing Office: No:10, 1st Floor, The commodity Exchange Building, Plot No: 2, 3 & 4, Sector-19A, Vashi, Navi Mumbai - 400 705, Maharashtra

UIR NO: TC5834220004602 9F	Date: 28/10/2022

Sample ID No.	: NAL/2022/10/N00007127
Discipline / Group	: Chemical / Atmospheric Pollution
Name of the Customer	: SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	: #44, Suligunta Village, Theertham Road, Berigai-635 105.
Source of the Monitoring	: STACK EMISSION
Requested by	: Mr. Jayakumar - Environment
Date of Monitoring	: 21.10.2022
Stack Attached to	: SCRUBBER-103
Ambient temperature	: 28°C
Flue Gas Temperature	: 32°C (in sampling point)
Velocity of Flue Gas	: 8.59 m/Sec
Volumetric flow rate	: 544 m^3/hr
Stack area	: 0.0176 sq.mt
Observation during Monitoring	: Full Operation Level.
Customer Reference	: By letter Dated 21/10/2022
Date of Sample Receipt	: 22/10/2022
Date of Test Starting	: 22/10/2022
Date of Test Completed	: 23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Particulate Matter as PM	mg/m3	BLQ(LOQ-5.0)	IS 11255(P-1)-1985
2	Sulfur Di oxide as SO2	mg/m3	BLQ(LOQ-3.0)	IS 11255(P-2)-1985
3	Oxide of Nitrogen as NO2	mg/m3	BLQ(LOQ-9.0)	IS. 11255(P-7)-2005
4	Carbon Monoxide as CO	mg/m3	80.0	NAL/CHE/SOP/EN001

Note: BLQ-Below Limit of Quantification. LOQ- Limit of Quantification Instrument used for Sampling: Fredetech Stack Sampler VSS 1. Calibration validity. 31.08.2023.

For NAWal Analytical Laboratories

NAWAL ANALYTICAL LABORATORIES HOSUR Ph: 245341

Authorized Signatory

End of Report

NAWaL Analytical Laboratories

198448

Test Report

Recognized by: BIS, MoEF, Approved by AGMARK & Certified as per ISO 9001:2015, ISO 45001: 2018

Report No. TC583422000046029	Date: 25/10/2022

Sample ID No:	: NAL/2022105N00007127
Discipline / Group	: Chemical / Atmospheric Pollution
Name of the Customer	: SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	: #14, Suliganla Village, Theertham Road, Berigai-635 105.
Source of the Monitoring	: STACK EMISSION
Requested by	: Mr. Jayakumar – Environment
Date of Monitoring	: 21.10.2022
Stack Attached to	: SCRUBBER-103
Ambient Temperature	: 28°C
Flue Gas Temperature	: 32°C (in sampling point)
Velocity of Flue Gas	: 8.59 m/Sec
Volumetric Flow rate	: 544 m³/hr
Stack area	: 0.0176 sq.mt
Observation during Monitoring	: Full Operation Level.
Customer Reference	: By Letter Dated 21/10/2022
Date of Sample Receipt	: 22/10/2022
Date of Test Starting	: 22/10/2022
Date of Test Completed	: 23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Cyanide	mg/m3	BLQ(LOQ-1.0)	EPA Method

Note : BLQ: Below Limit of Quantification, LOQ: Limit of Quantification Instrument used for Sampling: Envirotech Stack Sampler VSS 1, Calibration validity: 01.06.2023

For NAWaL Analytical Laboratories

NAWaL ANALYTICAL LABORATORIES HOSUR Ph. 245841

Authorised Signatory

End of Report

Regd. Office & Lab: Plot No: 98-A1,100 & 109 New SIDCO Industrial Estate, Sri Nagar, Hosur - 635109, Tamil Nadu.
Phone: 04344 - 245841, 9894785841 E-mail: ecogreen.labs@gmail.com, green_balu74@yahoo.com
Marketing Office: No:10, 1st Floor, The commodity Exchange Building, Plot No: 2, 3 & 4, Sector-19A, Vashi, Navi Mumbai - 400 705, Maharashtra

ULR NO: TC5854220000460SOF | Date: 25/10/2022

Sample ID No.	: NAL/202210EN00007128
Discipline / Group	: Chemical / Atmospheric Pollution
Name of the Customer	: SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	: #44, Sulligunta Village, Theertham Road, Berigai-635 105.
Source of the Monitoring	: STACK EMISSION
Requested by	: Mr. Jayakumar – Environment
Date of Monitoring	: 21.10.2022
Stack Attached to	: SCRUBBER-02 (Organic)
Ambient temperature	: 28°C
Flue Gas Temperature	: 28°C (At sampling point)
Velocity of Flue Gas	: 5.44 m/Sec
Volumetric flow rate	: 961 m^3/hr
Stack area	: 0.0491 sq.mt
Observation during Monitoring	: Full Operation Level
Customer Reference	: By Letter Dated.21/10/2022
Date of Sample Receipt	: 22/10/2022
Date of Test Starting	: 22/10/2022
Date of Test Completed	: 23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Particulate Matter as PM	mg/m3	BLQ(LOQ-5.0)	IS 11255(P-1),1985
2	Sulfur Di oxide as SO2	mg/m3	BLQ(LOQ-3.0)	IS 11255(P-2),1985
3	Oxide of Nitrogen as NO2	mg/m3	BLQ(LOQ-9.0)	IS 11255(P-7),2005
4	Carbon Monoxide as CO	mg/m3	27.0	NAL/CHE/SOP/EN001

Note : BLQ-Below Limit of Quantification, LOQ- Limit of Quantification Instrument used for Sampling, Envirotech Stack Sampler VSS-1, Calibration validity, 01.06.2023.

NAWAL ANALYTICAL LABORATORIES HOSUR Ph: 245311

For NAWAL Analytical Laboratories

Authorized Signatory
S.Elamathi
Deputy Technical Manager

End of Report

NAWaL Analytical Laboratories

198440

Test Report

Recognized by: BIS, MoEF, Approved by AGMARK & Certified as per ISO 9001:2015, ISO 45001: 2018

Report No. TC583422000046080 Date. 25/10/2022

Sample ID No.	:	NAL/202210EN00007128
Discipline / Group	:	Chemical / Atmospheric Pollution
Name of the Customer	:	SANMAR SPECIALITY CHEMICALS (Division of Chemplast Sanmar Ltd)
Address	:	#44, Sullgunta Village, Thiertham Road, Berigai-635 105.
Source of the Monitoring	:	STACK EMISSION
Requested by	:	Mr. Jayakumar - Environment
Date of Monitoring	:	21.10.2022
Stack Attached to	:	SCRUBBER-02 (Organic)
Ambient temperature	:	28°C
Flue Gas Temperature	:	28°C (in sampling point)
Velocity of Flue Gas	:	5.44 m/Sec
Volumetric Flow rate	:	061 m^3/hr
Stack area	:	0.0491 sq.mt
Observation during Monitoring	:	Full Operation Level.
Customer Reference.	:	By Letter Dated.21/10/2022
Date of Sample Receipt	:	22/10/2022
Date of Test Starting	:	22/10/2022
Date of Test Completed	:	23/10/2022

S.No.	PARAMETERS	UNITS	TEST RESULTS	TEST PROTOCOL
1	Cyanide	mg/m3	BLQ(LOQ-1.0)	EPA Method

Note: BLQ-Below Limit of Quantification, LOQ- Limit of Quantification Instrument used for Sampling Envirotech Stack Sampler VSS 1, Calibration validity- 01.06.2023

For NAWaL Analytical Laboratories

NAWaL ANALYTICAL LABORATORIES HOSUR Ph. 245841

Authorized Signatory

S.Elangathi

Deputy Technical Manager

End of Report

Regd. Office & Lab: Plot No: 98-A1,100 & 109 New SIDCO Industrial Estate, Sri Nagar, Hosur - 635109, Tamil Nadu.
Phone: 04344 - 245841, 9894785841. E-mail: ecogreen.labs@gmail.com, green_balu74@yahoo.com
Marketing Office: No.10, 1st Floor, The commodity Exchange Building, Plot No. 2, 3 & 4, Sector-19A, Vashi, Navi Mumbai - 400 705, Maharashtra

ANNEXURE - 4

TAMIL NADU POLLUTION CONTROL BOARD

Report of Analysis

1.	Name of the Industry		M/s. Chemplast Sanmar Limite	
2.	Address of the Industry		Sanmar Speciality Chemicals Div S.F.No : 44, Theertham Road, Berigai, Shoolagiri Taluk	
3.	Date of Survey		14.9.2022 & 15.9.2022	
Category		Red / Large	Land use Classification	Un – Classified/Rural
Type of Survey		Ambient	Time of Survey	Day
Meteorological conditions			Clear Sky	

Logging Parameters

Instrument Used	**CASELLA**	Serial No	**CEL 63X 2206850**
Logging Interval	10 Minutes each point	Measuring Range	50 – 110 dBA
Weighting	" A"	Time Weighting	FAST
Sound Incidence	Frontal	Time in **Hrs**	13.00 -14.10

Report of Noise Level Monitoring

S. No	Location	Duration (min)	Distance (M)	Direction	Sound Level – dB (A)		
					L_{eq}	Min	Max
1	Near Occupation Health Center	10	NE	80	50.7	48.2	55.3
2	Opposite to Petroleum Tank	10	SE	85	49.7	45.3	50.3
3	Near Vehicle Parking Area	10	SW	110	55.8	51.3	58.4
4	Near Scrap Unit	10	W	119	52.6	50.2	61.3
5	Near Emergency Control Room	10	NW	95	60.2	58.2	64.3

23/11/22
Environmental Scientist

K. Rajamanoor 23/11/22
Deputy Chief Scientific Officer
District Environmental Laboratory
TamilNadu Pollution Control Board
Hosur

ANNEXURE - 5

SMSLA

SANMAR

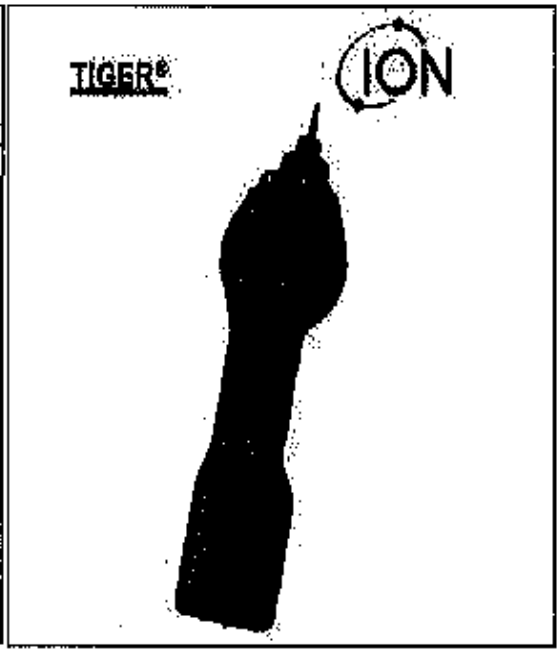
Report on Leak Detection and Repair Study

M/s. CHEMPLAST SANMAR LIMITED,

CUSTOM MANUFACTURED CHEMICALS DIVISION

44, Theertham Road, Berigai, Hosur-635105, Tamilnadu.

August - 2022



LDAR Study Conducted by

SMSLA

M/s. SMS LABS SERVICES PVT LTD

39/6, Ground and 1st Floor, T.H. Road, Puduchatram,

Thirumazhisai (Via), Poonamallee Taluk, Chennai – 600124,

Tamilnadu, India.

SMSLA

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Executive Summary

In the month of July 2022, **M/s. SMS Labs Services Private Limited** has received a Purchase order from **M/s. Chemplast Sanmar Limited-Custom Manufactured Division,** 44, Theertham road, Berigai, Hosur-635105 to carry out the LDAR Study. The LDAR Study was carried out on 22nd Aug 2022 SMS Labs team. The results obtained were then compared with standard guidelines.

About LDAR:

LDAR is a work practice designed to identify leaking equipment so that emissions can be reduced through repairs. A component that is subject to LDAR requirements must be monitored at specified, regular intervals to determine whether or not it is leaking. Any leaking component must then be repaired or replaced within a specified time frame.

The environmental regulations as per EPA M 21 prescribed LDAR programs as a means of reducing emissions have very specific standards and applied to a monitoring and repair program. The LDAR study included the following protocols:

- **Chemical streams that must be monitored**
- **Types of components (pumps, valves, connectors, etc.) to be monitored**
- **Measured concentration in PPM that indicates a leak**
- **Frequency of monitoring**
- **Method of monitoring**
- **Actions to be taken if a leak is discovered**
- **Length of time in which an initial attempt to repair the leak must be performed**
- **Length of time in which an effective repair of the leak must be made**
- **Actions that must be taken if a leak cannot be repaired within guidelines**
- **Record-keeping and reporting requirements**

Regulations for LDAR:

LDAR programs are required by many New Source Performance Standards (NSPS), National Emission Standards for Hazardous Air Pollutants (NESHAP), State Implementation Plans (SIPs), Resource Conservation and Recovery Act (RCRA) and other state or local requirements. There are 25 federal standards that require facilities to implement LDAR programs. Appendix A shows the 25 federal standards that require the implementation of a formal LDAR program using Method 21. Appendix B lists 28 other federal regulations that require some Method 21 monitoring, but do not require LDAR programs to be in place.

Many state and local air agencies incorporate federal LDAR requirements by reference, but some have established more stringent LDAR requirements to meet local air quality needs.

EPA has determined that leaking equipment, such as valves, pumps, and connectors, are the largest source of emissions of volatile organic compounds (VOCs) and volatile hazardous air pollutants (VHAPs) from petroleum refineries and chemical manufacturing facilities. The Agency has estimated that approximately 70,367 tons per year of VOCs and 9,357 tons per year of HAPs have been emitted from equipment leaks. Emissions from equipment leaks exceed emissions from storage vessels, wastewater, transfer operations, or process vents. VOCs contribute to the formation of ground-level ozone. Ozone is a major component of smog, and causes or aggravates respiratory disease, particularly in children, asthmatics, and healthy adults who participate in moderate exercise. Many areas of the United States, particularly those areas where refineries and chemical facilities are located, do not meet the National Ambient Air Quality Standard (NAAQS) for ozone. Ozone can be transported in the atmosphere and contribute to nonattainment in downwind areas.

Benefits of an LDAR Program:

When the LDAR requirements were developed, EPA estimated that petroleum refineries could reduce emissions from equipment leaks by 63% by implementing a facility LDAR program. Additionally, EPA estimated that chemical facilities could reduce VOC emissions by 56% by implementing such a program.

1. Reducing Product Losses
2. Increasing Safety for Facility Workers and Operators
3. Decreasing Exposure for the Surrounding Community
4. Potentially Reducing Emission Fees
5. Avoiding Enforcement Actions

Affected Sources: Each pump, compressor, pressure relief device, sampling connection system, open-ended valve or line, flange and connector that contains or contacts a fluid or gas. That is exceedingly more than 5000ppm of pump and compressor seals and 3000 ppm other components is an affected source.

Equipment Leak: A leak is defined as greater than or equal to 3,000 & 5000 ppmv as methane, for organic compounds, as determined by EPA Reference Method 21.Most of the emissions are from valves and connectors because these are most prevalent components and can number in the thousands. The major cause of emissions from valves and connectors is seal or gasket failure due to normal wear or improper maintenance. More than 90% of emissions from the leaking equipment with valves are being the most significant source. The open-ended lines and sampling connections account for as much as 5 - 10% of total VOC emissions from equipment leaks.

Minimum Requirements for an Acceptable Organic LDAR Program:

- Each affected source is screened initially using Method 21. Sources that are unsafe to monitor is not screened, but documentation is provided to substantiate the unsafe nature.

- Monitoring of each affected source is to be conducting quarterly using Method 21.

All potential leak points associated with a component must be identified and screened for leaks. The detected leaks by Method 21 test were tagged and repaired. The leak sources are measured after repair and the same is recorded.

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METHODOLOGY OF THE STUDY

EPA has found significant widespread noncompliance with Leak Detection and Repair regulations and more specifically non-compliance with Method 21 requirements.

Step 1: Preparation of LDAR project

- Information exchange meeting
- Project introduction
- Project scooping
- Coding & naming conventions
- Prepare technical information (medium, stream, drawings,)
- Stream composition
- YTD production time per stream
- Leak definition, repair definition and tag definition per stream
- Detection equipment to use

Step 2: Database preparation:

- Build site structure (unit - sections - drawings - streams)
- Prepare Basic data
- Prepare Customer data

Step 3: Source inventory:

- Project kick-off meeting
- Safety training
- Site visit
- Define monitoring routes
- Start inventory program
- Prepare monitoring phase

Step 4: Unit monitoring phase

- Prepare detection devices and gather relevant information

- Start monitoring program
- Regular status meetings
- Database update

Step 5: First repair attempt

- Prepare tightening lists (sources with leak-rate > repair definition)
- Guide mechanical/operator to leaking sources
- Perform on-line reparation
- Re-monitoring after repair attempt

Step 6: Reporting

- Consolidate all gathered data
- Prepare lessons learned
- Create LDAR report
- Detail list of all leaking sources
- Repair orders
- Equipment overview per EPA source
- Top leakers (in costs and losses)
- Sort on most leaking equipment (EPA sources)

Sampling Methodology:

Initial Screening: Screening tests must be conducted initially and include:

1. The type of affected source (e.g. pump, compressor, etc.).
2. Site specific ID of each affected source.
3. Date of the Method 21 test.
4. Type of Method 21 detector.
5. Calibration results of Method 21 detector.
6. Screening results in ppmv.

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CALCULATION:

Component Type	Default Zero Factor [Kg/hr]	Correlation Equation [Kg/hr]
Valves	[7.8E-06]	[2.27E-06(SV)^0.747]
Pump Seals	[1.9E-05]	[5.07E-05(SV)^0.622]
Others	[4.0E-06]	[8.69E-06(SV)^0.642]
Connectors	[7.5E-06]	[1.53E-06(SV)^0.736]
Flanges	[3.1E-07]	[4.53E-06(SV)^0.706]
Open-ended Lines	[2.0E-06]	[1.90E-06(SV)^0.724]

The default zero factors apply only when the screening value (SV) corrected for background equals 0 ppmv.

The correlation equations apply for actual screening values, corrected for background.

The "other" component type includes instruments, loading arms, pressure relief valves, vents, compressors, dump lever arms, diaphragms, drains, hatches, meters and polished rods stuffing boxes. This "other" component type should be applied for any component type other than connectors, flanges, open-ended lines, pumps or valves.

For example:

The screening value (SV) concentration in Valves is 2600 ppm = RF (% of VOC Flow/100)*0.0000023*SV^0.746

RF = Response Factor = 1

Response Factors of Different Volatiles:	
Gasoline Vapours	1.05
Naphta	1.0
Heavy Oil	1.1
Petrol & Diesel	0.8
Gasoline Vapours 2	0.7
Light Oil	1.0

% of VOC Flow = material passing on that particular pipe line.

0.00000227 = Correlation factor

SV = Screening Value in ppm

Applying the values in the below formula

= RF (% of VOC Flow/100)*0.0000023*SV^0.746

= 1 (100/100)*0.0000023*2600^0.746

= 0.000815 kg/hr

Total hours of operation per year are 8760 (24 hours x 365 days)

The Volatile emission = 7.139 Kg/year.

Results

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CONCLUSION

Based on the LDAR (500 Locations) study M/s. **Chemplast Sanmar Limited-Custom Manufactured Division,** 44, Theertham road, Berigai, Hosur-635105 has a **yearly emission of VOCs is 16.8 kg/year.**

Based on the LDAR (500 Locations) study, most of the components are zero VOC emission and maximum VOC emission is 39.0 ppm in plant-2B organic reactor R-26 flange. The overall VOC emission is 1258.1 ppm. **All locations are below standard values and found satisfactory as per CPCB guidelines (CPCB/PCLS/02/2010).**

CPCB Guidelines

Component	General Hydrocarbon (ppm)
Pump/Compressor	5000
Valves/Flange	3000
Other components	3000

ANNEXURE - 6

CHEMPLAST SANMAR LTD
SANMAR SPECIALITY CHEMICALS DIVN., BERIGAI.

Green belt details - Area, list of trees & numbers

S. No	Area	Saplings available	Species Name
1	North Side boundary	1710	1. Neem 2. Silver Oak 3. Eucalyptus 4. Pongamia 5. Gulmohur 6. Spathodia 7. Ashoka 8. Banyan 9. Bamboo 10. Peapal
2	West side boundary	1650	
3	South side boundary	1850	
4	East side boundary	1650	
5	Process Plants	3420	
6	Eucalyptus grove	5970	
	Total	16250	

ANNEXURE - 7

CHEMPLAST SANMAR LIMITED,
SANMAR SPECIALITY CHEMICALS DIVISION, BERIGAI

PROPOSED INVESTMENT DURING THE CURRENT FINANCIAL YEAR 2022-2023

NO	Description	Cost of installations (Rs. In lakhs)	Purpose
1	Green Belt Development	12	To improve Green Belt inside the premises
2	ZLD Improvement	20	To Enhance the Effluent treatment
	Total	32	

CHEMPLAST SANMAR LIMITED,
SANMAR SPECIALITY CHEMICALS DIVISION, BERIGAI

APRIL-2022 TO SEPTEMBER-2022

Month and year	Chemicals & Consumables Rs.	Electricity Rs.	Manpower Rs.	Steam Cost for MEE Rs.	Total Expenditure Rs.
Apr-22	226370.90	938986.32	911270.55	5090032.78	7166660.55
May-22	302613.66	676896.41	668351.88	4097653.61	5745515.56
Jun-22	305877.30	1399462.62	873555.30	5915128.43	8494023.65
Jul-22	329755.69	951657.70	828415.24	6223381.90	8333210.53
Aug-22	282287.14	975759.63	832950.44	5076471.29	7167468.49
Sep-22	238198.13	983744.87	822425.05	4234036.90	6278404.94

Total Expenditure FROM OCTOBER-2021 to MARCH-2022 Rs. 4,31,85,283.73

ANNEXURE - 8

ANNEXURE - 9

CHEMPLAST SANMAR LIMITED
CUSTOM MANUFACTURED CHEMICALS DIVN - BERIGAI.

(Periodical Medical Examination as per Rule 62N of Tamil Nadu Factories Rules, 1950

Name	: S. VIJayakumar	Designation	: DEM
Father's Name	: M. Shanmugam	Date of Joining	: 02/02/1995
Date of Birth	: 27.03.1966	Nature of Job	: ETP
Marital Status / Children	: married / two	Identification Marks	:
Department	: MEE - ETP	Employee/ Contractor	:

Details of Examination	19/01/20. 17/6/20 Date of Examination			
Present History	No complaints	No complaints		
Relevant Past History	K/C/O T2DM x 6y.	K/C/O T2DM x 6y.		
Family History	father - T2DM, mother - DM			
Height in cm	176	176		
Weight in Kg	58	56		
Pulse rate / Min	88	97 v. 88/min		
Blood Pressure	140/90	160/80		
Chest in cm - Expiration /Inspiration	79/85	79/85		
Respiratory System Chest	BAE NVBS (+)	BAE, NVBS (+)		
Blood				
Hemoglobin				
Total Count				
Differential Count				
Platlet Count				
ESR				
Random Blood Sugar				
Serum Bilirubin (Direct, Indirect & Total)				
SGOT, SGPT				
Gamma Glutamyl Transferase				
Alkaline Phosphatase (ALKP)				
Total Cholestrol				
Triglycerides				
Creatinine				
Blood Urea Nitrogen				
Uric Acid				
Eyes -CV/AV/NV				
Urine : Routine				
Skin	Normal	Normal		
Musculoskeletal system	NAD.	NAD		
BMI	18.72	[illegible]		
Other issues:				
Relevant Investigations, if required				
Sign of the Medical Officer	[signature] 19/01/20	[signature] Dr. S. MURALI, MBBS Reg No : 157[illegible] Registered Medical Practitioner		

Dr. B. SATHIYA SEELAN, MBBS.,
Reg No. 141119
Registered Medical Practitioner

SANMAR SPECIALITY CHEMICALS
DIVISION OF CHEMPLAST SANMAR LIMITED - BERIGAI.

(Periodical Medical Examination as per Rule 62N of Tamil Nadu Factories Rules, 1950

Name	: S. VIJAYAKUMAR	Designation	: DEM
Father's Name	: Mr. SHANMUGAM	Date of Joining	: 02/08/1995
Date of Birth	: 27/03/1966	Nature of Job	: ETP
Marital Status / Children	: Married / two	Identification Marks	:
Department	: MEE-ETP	Employee/ Contractor	:

Details of Examination	Date of Examination			
	9/01/2010	[illegible]	[illegible]	[illegible]
Present History	NIL	No Complaints	No Complaints	No complaint
Relevant Past History	K/c/o DM for 6 yrs on Rx	K/c/o T2DM 6 years on Rx	K/c/o T2DM 6 yrs on Rx	K/c/o T2DM 6 yrs on Rx
Family History	NIL	No +ve History	No +ve history	No +ve history
Height in cm	174 cm	174 cms	174 cms	174 cm
Weight in Kg	48 / kg	50 kgs	53 kgs	53 kg
Pulse rate / Min	89 / min	85 / min	100 / min, 97%	87 / min 97%
Blood Pressure	110 / 70 mmHg	120/80 mmHg	130/80 mmHg	180/80 mmHg
Chest in cm - Expiration /Inspiration	74 / 79	80 / 84 cms	79 / 83 cm	77 / 80 cm
Respiratory System Chest	BL AE+, NVBS+	BL AE+, NVBS+	BL AE+, NVBS+	BL AE+, NVBS+
Blood				
Hemoglobin				
Total Count				
Differential Count				
Platlet Count				
ESR				
Random Blood Sugar				
Serum Bilirubim (Direct, Indirect & Total)				
SGOT, SGPT				
Gamma Glutamyl Transferase				
Alkaine Phosphatase (ALKP)				
Total Cholestrol				
Triglycerides				
Creatinine				
Blood Urea Nitrogen				
Uric Acid				
Eyes -CV/AV/NV				Musculosuke
Urine : Routine				NIL complaint
Skin	Normal	Normal	Normal	Normal
Relevant Investigations, if required	BMI - UW	BMI - UW	BMI - UW	BMI - UW
Sign of the Medical Officer	Dr. K S DEEPAK M.B.B.S. TNMC Reg No. [illegible] Registered Medical Practitioner	Dr. K S DEEPAK M.B.B.S. TNMC Reg No. [illegible] Registered Medical Practitioner	Dr. K S DEEPAK M.B.B.S. TNMC Reg No. [illegible] Registered Medical Practitioner	Dr. C. SAKTHIVEL M.S.P. Reg No: 140531 Registered Medical Practitioner

SANMAR SPECIALITY CHEMICALS LIMITED, BERIGAI

(Periodical Medical Examination as per Rule 62N of Tamil Nadu Factories Rules, 1950)

Name	S. VIJAYAKUMAR	Designation	DFM
Father's Name	SHANMUGAM	Date of Joining	02/08/1995.
Date of Birth	27/08/1966	Nature of Job	ETP
Marital Status / Children	Married/Two	Identification Marks	—

Details of Examination	Date of Examination			
	21/12/17	19/7/18	21/12/19	20.6.19.
Present History	No Complaints	Nil	Nil	Nil
Relevant Past History	K/c/o DM on Rx,	K/c/o DM x Stjaan.	K/c/o DM on Rx	K/c/o DM on Rx previously.
Family History	No Relevant Family Hx.	Nil	Nil	Nil
Height in CM	177 cm	173 cm.	177 Cm	174.4 cm
Weight in Kg	53 kg.	50.7 kg.	54 Kg	49.1 Kg
Pulse rate / min	76/min	86 bpm	86 bpm	78/min, 98%
Blood Pressure	130/70 mmHg	110/70 mmHg	120/80 mmHg	120/70 mmHg
Chest in cm - Expiration / Inspiration	81/83 cm	78/79.7 cm.	79/81 cm	76/78.5 cm
Respiratory System Chest PFM	NAD	NAD. Pm [illegible], NVBS	NAD B/L [illegible] NVBS	B/L AE(+) NVBS(+)
C.N.S Refluxes vibration	(N)	(N)	(N)	
Gastro Intestinal system & Lever	NAD	(N)	(N)	
Genito urinary system	NAD	(N)	(N)	
ENT / Hearing - TFT	(N)		(N)	
Eyes - CV/AV/NV				
Vacination - Inj. TT	Given		Given	
Skin	NAD	Normal.	Normal	(N)
Relevant Investigations, if required	NO	—	—	
Sign of the Medical Officer	[signature]	[signature] 19/7/18	[signature] 31.12.18	[signature] 20.6.19.

SANMAR SPECIALITY CHEMICALS LIMITED, BERIGAI

(Periodical Medical Examination as per Rule 62N of Tamil Nadu Factories Rules, 1950)

Name	S. VIJAYAKUMAR	Designation	DEM I
Father's Name	SHANMUGAM	Date of Joining	02.08.1995
Date of Birth	27.03.1966	Nature of Job	ETP
Marital Status / Children	Married two	Identification Marks	→

Details of Examination	Date of Examination			
	01.12.2015	14.6.2016	15/12/16	08/07/16
Present History	No problem	- Nil -	No Pain	NIL
Relevant Past History	No Any Ailment			K/C/O DM on Rx
Family History	None Special	- Nil -		NIL
Height in CM	177 Cm	177 cm	177 cm	177 cm
Weight in Kg	52 Kg	52.1 kg	53.2	53 KG
Pulse rate / min	90/min	92/min	96/m	75/min
Blood Pressure	130/80 mmHg	120/80	130/80 mm	130/80 mmHg
Chest in cm - Expiration / Inspiration	75/78 Cm	75/78 cm	96/79 cm	81/84 cm
Respiratory System Chest ~~PEM~~	NAD no crackles	NAD	NAD	NAD
Blood				
Hemoglobin				
Total Count				
Differential Count				
Platlet Count				
ESR				
Random Blood Sugar				
Serum Bilirubim (Direct, Indirect & Total)				
SGOT, SGPT				
Gamma Glutamyl Transferase				
Alkaine Phosphatase (ALKP)				
Total Cholesterol				
Triglycerides				
Creatinine				
Blood Urea Nitrogen				
Uric Acid				
Urine : Routine				
Skin	Normal	Normal	Normal	Normal
Relevant Investigations, If required	—	—		
Sign of the Medical Officer				02/06/16

SANMAR SPECIALITY CHEMICALS LIMITED, BERIGAI

(Periodical Medical Examination as per Rule 62N of Tamil Nadu Factories Rules, 1950)

Name	S. VIJAYAKUMAR	Designation	DGM
Father's Name	K. Shanmugam	Date of Joining	03.08.1995
Date of Birth	27.03.1966	Nature of Job	ETP
Marital Status / Children	Married	Identification Marks	A scar over the female region

Details of Examination	Date of Examination			
	17.10.2013	12.04.2014	29.11.2014	[illegible]
Present History	No Complaint	No Complaint	No Complaint	N
Relevant Past History	Nothing relevant	No relevant PH	Nothing relevant	O
Family History	Nothing detect	Nothing detect	Nothing known	T
Height in CM	177 CM	177 Cm	177 Cm	
Weight in Kg	57.0 kg	56 Kg	55 Kg	D
Pulse rate / min	86/min	83/min.	85/min.	O
Blood Pressure	180/90 mmHg	140/80 mmHg	120/80 mmHg	N
Chest in cm - Expiration / Inspiration	78/82 cm	85/87 Cm	77/81 Cm	E
Respiratory System Chest PFM	NAD on auscultation	NAD on auscultation	NAD on auscultation	
Blood				
Hemoglobin				
Total Count				
Differential Count				
Platlet Count				
ESR				
Random Blood Sugar				
Serum Bilirubim (Direct, Indirect & Total)				
SGOT, SGPT				
Gamma Glutamyl Transferase				
Alkaine Phosphatase (ALKP)				
Total Cholesterol				
Triglycerides				
Creatinine				
Blood Urea Nitrogen				
Uric Acid				
Urine : Routine				
Skin	Normal	Normal	Normal	
Relevant Investigations, If required	—	—	—	
Sign of the Medical Officer	Dr. CHRISTOPHER MBBS, MD(Gen Med), DGO, DHA, PGDCC, DCPP, Industrial Physician			

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MEDICAL RECORD

NABH

Name: Mr. S. Vijaya Kumar

Date of Medical Examination: 20.01.2022

Age / Sex: 55 yrs / Male

Company: **Chemplast Sanmar Ltd, Custom Manufactured Chemical Divn, Berigai.**

E.NO: SV505

MEDICAL EXAMINATION

1. Physical Examination:

a. BP	- 120/80 mm of Hg
b. Pulse	- 78 b/mt
c. Spo2	-98
d. Vision	- Right: 6/6 Left: 6/6 Colour: Normal
2. Respiratory System:	- NVBS +
3. Cardiovascular system:	- S1, S2 Heard, No murmurs
4. Abdominal Examinations:	- Soft
5. ENT	- Nil
6. Specific Ailment	- **Physician Opinion**
7. IMPRESSION:	- Certified that the above Medical Examinee is **Medically Fit**

Signature of the medical examiner

Dr. S. ANURADHA
Reg. No. 57623
Medical Officer
VIJAY HOSPITAL

*This is a medical form which cannot be used for other purpose.

A Unit of Vijay Sai Healthcare Hosur Pvt. Ltd.,
#76 R, Old Bangalore Road, HOSUR - 635 109
T +91 4344 320 888 / 310 000

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www.vijayhospital.in E-mail : vijayhospital.lab@gmail.com

LABORATORY REPORT

Name	: Mr VIJAYAKUMAR. S		
UHID	: VJH-147464	Bill No	: BILL-OP-105844
Age/Sex	: (55 Y / Male)	Collected On	: 20-01-2022 12:57 PM
Lab No	: LAB-OP-20426	Reported On	: 25-01-2022 12:57 PM
Consultant	: Dr.Rajeshkumar(HBTL)		
Specimen	: BLOOD / SERUM / URINE		

Test Name	Result	H/L	Units	Reference Range
HAEMATOLOGY				
COMPLETE BLOOD COUNT				
RBC	4.06 *	(L)	x10^6/uL	4.6 - 6.0
HB	11.6 *	(L)	g/dL	13.0 - 17.0
PCV	35.6 *	(L)	%	40 - 54
MCV	88.0		fL	80 - 100
MCH	28.6		pg	26 - 32
MCHC	32.6		%	32 - 36
PLATELETS	254		x10^3/uL	150 - 450
TOTAL LEUCOCYTE COUNT	6.10		x10^3/uL	4.5 - 11.5
NEUTROPHILS	62.2		%	50 - 70
LYMPHOCYTES	29.4		%	18 - 42
MONOCYTES	6.0		%	2.0 - 11.0
EOSINOPHIL	2.0		%	1.0 - 8.0
BASOPHIL	0.4		%	0.0 -2.0
ERYTHROCYTE SEDIMENTATION RATE (ESR)				
ESR	19		mm/hr	5 - 25
BIO CHEMISTRY				
RANDOM BLOOD SUGAR (RBS)				
RBS	316.0 *	(H)	mg/dL	80 - 140 mg/dL
BLOOD UREA NITROGEN (BUN)				
BUN	17.0		mg/dL	Adults (18-60 years) 6-20 mg/dL
CREATININE-SERUM				
CREATININE	1.20		mg/dL	Males (0.70 - 1.20

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www.vijayhospital.in E-mail : vijayhospital.lab@gmail.com

LABORATORY REPORT

Name	: Mr VIJAYAKUMAR. S		
UHID	: VJH-147464	Bill No	: BILL-OP-105844
Age/Sex	: (55 Y / Male)	Collected On	: 20-01-2022 12:57 PM
Lab No	: LAB-OP-20426	Reported On	: 25-01-2022 12:57 PM
Consultant	: Dr.Rajeshkumar(HBTL) .		
Specimen	: BLOOD / SERUM / URINE		

Test Name	Result	H/L	Units	Reference Range
				mg/dL)
URIC ACID - SERUM				
URIC ACID	5.0		mg/dl	3.4 - 7.0 mg/dL
SGOT				
SGOT/AST	13.0		IU/L	< 40 U/L
SGPT				
SGPT/ALT	15.0		IU/L	< 41 U/L
TOTAL CHOLESTEROL				
TOTAL CHOLESTEROL	168.0		mg/dL	< 200 mg/dL
GAMMA GLUTAMYL TRANSPEPTIDASE (GGT)				
GAMMA GT	18.0		U/L	8.0 - 61.0 U/L
BILIRUBIN SERUM - TOTAL/DIRECT//INDIRECT				
BILIRUBIN TOTAL	0.27 *	(L)	mg/dL	0.3 - 1.2 mg/dL
Method: (COLORIMETRIC DIAZO METHOD ? COBAS C311)				
BILIRUBIN DIRECT	0.13		mg/dL	0.0 - 0.3 mg/dL
Method: (DIAZO METHOD ? COBAS C311)				
BILIRUBIN INDIRECT	0.14 *	(L)	mg/dL	0.2 - 0.7
TRIGLYCERIDES - SERUM				
TRIGLYCERIDES	143.0		mg/dL	< 150 mg/dL
ALKALINE PHOSPHATASE				
Alkaline Phosphatase	18.0 *	(L)	IU/L	40 - 129 IU/L

CLINICAL PATHOLOGY

COMPLETE URINE EXAMINATION

VOLUME 25 ML

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LABORATORY REPORT

Name	: Mr VIJAYAKUMAR. S		
UHID	: VJH-147464	Bill No	: BILL-OP-105844
Age/Sex	: (55 Y / Male)	Collected On	: 20-01-2022 12:57 PM
Lab No	: LAB-OP-20426	Reported On	: 25-01-2022 12:57 PM
Consultant	: Dr.Rajeshkumar(HBTL) .		
Specimen	: BLOOD / SERUM / URINE		

Test Name	Result	H/L	Units	Reference Range
COLOUR	PALE YELLOW			
APPEARANCE	SLIGHTLY TURBID			
PH	5.0			4.6 - 8.0
SPECIFIC GRAVITY	1.020			1.003 - 1.030
GLUCOSE	PRESENT (+++)			
PROTEIN	PRESENT (++)			
BLOOD	NIL			
KETONE BODIES	NIL			
BILE SALT	NEGATIVE			
BILE PIGMENT	NEGATIVE			
UROBILINOGEN	NEGATIVE			
NITRATE	NEGATIVE			
PUS CELLS	PLENTY *			1 - 2 Cells/hpf
EPITHELIAL CELLS	8 - 10*	(H)		0 - 2/hpf
RBC's	1 - 3			0 - 2 RBC's/hpf
CAST	NIL			
CRYSTALS	NIL			
BACTERIA	PRESENT			
OTHERS	AMORPHOUS URATES PRESENT			

*** End of the Report ***

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www.vijayhospital.in E-mail : vijayhospital.lab@gmail.com

LABORATORY REPORT

Name	: Mr VIJAYAKUMAR. S		
UHID	: VJH-147464	Bill No	: BILL-OP-105844
Age/Sex	: (55 Y / Male)	Collected On	: 20-01-2022 12:57 PM
Lab No	: LAB-OP-20426	Reported On	: 25-01-2022 12:57 PM
Consultant	: Dr.Rajeshkumar(HBTL)		
Specimen	: BLOOD / SERUM / URINE		

Test Name	Result	H/L	Units	Reference Range

Lab InCharge

Lab Technologist

ANNEXURE-10

AUTHORISATION No. 21HFC36507044 dated 24/06/2021

Proceeding No. T6/TNPCB/F.0027HSR/HWA/RL/HSR/2021 dated 24/06/2021

Sub: Tamil Nadu Pollution Control Board – Hazardous Waste Authorization-Fresh- M/s. CHEMPLAST SANMAR LIMITED - SANMAR SPECIALITY CHEMICALS DIVISION , S.F.No. 5,7/1,2,3A,3B,8/1,2A,2B,9/1,2,3,10/1,2,3A,3B,4,12/1A,1B,13/1,14/1A,2A, SULIGUNTA Village, SHOOLAGIRI Taluk, Krishnagiri District - Authorization under Rule 6 (2) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 enacted under Environment (Protection) Act, 1986 – Issued- Reg.

Ref: 1. TNPCB Proceeding No. T5/TNPCB/F.0027HSR/HWA/RL/HSR/2020 dated 16/12/2020.
2. Application No. 36507044 dated: 05-02-2021 filed under HOWM Rules 2016
3. HWA-IR.No.0027HSR/HWA/RL/JCEE-M/HSR/2021 dated 05/03/2021.

FORM 2

[See rule 6 (2)]

FORM FOR GRANT OR RENEWAL OF AUTHORISATION TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

1. Number of authorization: 21HFC36507044 and dated : 24/06/2021
2. The Director of M/s. CHEMPLAST SANMAR LIMITED - SANMAR SPECIALITY CHEMICALS DIVISION is hereby granted an Authorisation based on the based on the enclosed signed Inspection report for Generation & Handling of hazardous or other wastes or both on the premises situated at S.F.No. 5,7/1,2,3A,3B,8/1,2A,2B,9/1,2,3,10/1,2,3A,3B,4,12/1A,1B,13/1,14/1A,2A, SULIGUNTA Village, SHOOLAGIRI Taluk, Krishnagiri District.

Sl No	Schedule / Name of the Processes	Name of Hazardous Waste (with category No)	Quantity	Activities for which Authorization is issued
1	Schedule I /20. Production and/or industrial use of solvents	20.1-Contaminated aromatic, aliphatic or napthenic solvents may or may not be fit for reuse	6 T/Annum	Generation, Collection, storage & send for Disposal by incineration in the common TSDF, M/s. TNWML, Gummidipoondi (Incinerable)
2	Schedule I /20. Production and/or industrial use of solvents	20.3-Distillation residues	20 T/Annum	Generation, Collection, Storage& send for Disposal by incineration in the common TSDF, at M/s. TNWML, Gummidipoondi (Incinerable)
3	Schedule I /5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications	5.1-Used or spent oil	10 T/Annum	Generation, Collection, Storage & send to TNPCB Authorized Recyclers (Recyclable)
4	Schedule I /35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's)	35.3-Chemical sludge from waste water treatment	2500 T/Annum	Generation, Collection, storage & send for Disposal at common TSDF, M/s. TNWML, Gummidipoondi for Landfilling (Landfillable)
5	Schedule I /33. Handling of hazardous chemicals and wastes	33.1-Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	40 T/Annum	Generation, Collection, storage & send to TNPCB Authorized Recyclers for Recovery and Reuse. (Utilizable)
6	Schedule I /28. Production/formulation of drugs/pharmaceutical and health care product	28.2-Spent catalyst	1 T/Annum	Generation, Collection, Storage and send to M/s. Ravindra Hereaus Pvt Ltd plant , Udaipur Udaipur District , Rajasthan for Recovery and Reuse. (Recyclable)
7	Schedule I /33. Handling of hazardous chemicals and wastes	33.2-Contaminated cotton rags or other cleaning materials	2 T/Annum	Generation, Collection, Storage & send for Disposal by incineration in the common TSDF at M/s. TNWML, Gummidipoondi (Incinerable)
8	Schedule I /28. Production/formulation of drugs/pharmaceutical and health care product	28.6-Spent solvents	350 T/Annum	Generation,Collection, Storage & send to TNPCB Authorized Recyclers (Recyclable)

3. This authorization shall be valid for a period upto 31/03/2026.

The Authorization is issued subject to the following general and special conditions annexed.

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

A. GENERAL CONDITIONS OF AUTHORIZATION

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986 and the rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an officer authorized by Tamil Nadu Pollution Control Board.

5. 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.

6. The person authorised shall comply with the provisions outlined in the CPCB guidelines on "Implementing Liabilities for Environmental damages due to Handling and Disposal of Hazardous Wastes and Penalty".

7. It is the duty of the authorized person to take prior permission of Tamil Nadu Pollution Control Board to close down the facility.

8. The imported Hazardous and other wastes shall be fully insured for transit as well as the accidental occurrences and its clean-up operation.

9 The record of consumption and fate of the imported hazardous and other wastes shall be maintained.

10. The Hazardous and other wastes which gets generated during recycling or reuse or recovery or pre-processing 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 or mitigation of damages if any.

12 An application for the renewal of an authorization shall be made as laid down under these Rules.

13 13. Any other conditions for compliance as per the Guidelines issued by the MoEF and CC or CPCB from time to time.

14 Annual returns shall be filed by June 30th for the period ending 31st March of the previous financial year.

B. SPECIFIC CONDITIONS - HW Generator

1. The occupier/generator shall be responsible for safe and environmentally sound management of hazardous and other wastes.

2. The occupier shall follow the following steps for the management of hazardous and other wastes. (a) prevention (b) minimization (c) reuse (d) recycling (e) recovery, utilisation including co-processing and (f) safe disposal

3. The occupier shall take all the steps while managing hazardous and other wastes - (a) To contain contaminants and prevent accidents and limit their consequences on human beings and the environment; and (b) To provide persons working in the site with appropriate training, equipment and the information necessary to ensure their safety.

4. The occupier shall store the hazardous and other wastes for a period not exceeding ninety days and shall maintain a record of sale, transfer, storage, recycling, recovery, pre-processing, co-processing and utilisation of such wastes and make these records available for inspection:

5. The hazardous and other wastes shall be stored temporally 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 fenced properly and a sign of danger shall be placed at the storage site.

6. The containers holding the hazardous and other wastes shall be kept in good condition and made of materials which can withstand the physical and environmental conditions during storage and transportation. Only properly cleaned containers shall be used for storage of hazardous and other wastes.

7. The occupier handling hazardous or other wastes shall maintain records of such operations of generation, handling, storage and disposal as per Form 3.

8. The hazardous and other wastes generated in the establishment of the occupier shall be sent or sold to an authorised actual user or shall be disposed of in an authorised disposal facility.

9. 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

10. 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.

11. The hazardous and other wastes shall be transported from the occupier's establishment to an authorised actual user or to an authorised disposal facility in accordance with the provisions of these rules.

12. The transport of the hazardous and other wastes shall be in accordance with the provisions of these rules and the rules made by the Central Government under the Motor Vehicles Act, 1988 and the guidelines issued by the Central Pollution Control Board from time to time in this regard

15. The transporter/sender of the hazardous and other wastes shall prepare and maintain manifest in Form 10.

16. The occupier or the operator or the transporter shall immediately intimate TNPCB 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

17. The occupier who intends to get its hazardous and other wastes treated and disposed of by the operator of a treatment, storage and disposal facility shall give to the operator of that facility, such specific information as may be needed for safe storage and disposal.

18. The occupier shall be liable for all damages caused to the environment due to improper handling and management of the hazardous and other wastes.

19. The occupier handling hazardous and other wastes shall submit annual returns containing the details specified in Form 4 to TNPCB on or before the 30th day of June of every year for the preceding period April to March.

20. 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 TNPCB and fresh authorization shall be obtained.

ADDITIONAL SPECIFIC CONDITIONS

1. The unit shall comply with the provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 while handling hazardous waste.

2. The unit shall collect, store, transport and send the HW Item 28.2, 28.6,5.1, to SPCB Authorized Recyclers & Dispose HW Item 35.3 to TNPCB Authorized facilitator for land filling & HW item 20.1, 20.3,&33.2 to Authorized facilitator for incineration having valid consent under Water & Air Acts & Authorization under HOWM Rules, 2016.

3. The unit shall store the hazardous waste on impervious floor under closed shed within the premises for a period not exceeding ninety days as per the Rule 8 of HOWM Rules, 2016.

4. The unit shall maintain records in FORM-3 for hazardous waste generation & disposal, furnish Annual Returns in FORM-4 for every financial year before 30th June & manifest document in Form-10 for transport of hazardous waste as per provisions of HOWM Rules, 2016.

5. The unit shall maintain the Hazardous waste display Boards in front of the factory clearly indicating the same regularly as mandated by the Hon'ble Supreme Court order dated 14.10.2003.

6. The unit shall ensure that the total quantity of trade effluent is not increased from the consented quantity and shall ensure that the existing ETP/ZLD system is adequate to handle the change in quantity of lean/high TDS effluent.

7. The unit shall comply with the provision of Rule 18 -"Transportation of hazardous and other wastes" of Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 with respect to the HW 28.2-Spent catalyst.

8. The unit shall operate with valid Consent under Water Act & Air Act, Authorization under HOWM Rules, 2016 and policy under PLI Act, 1991 at all times.

9. The unit shall possess valid agreement with Hazardous waste facilitators at all times.

10. With the issue of this revised HW Authorization, the earlier authorization Proceeding No. T5/TNPCB/F.0027HSR/HWA/RL/HSR/2020 dated 16/12/2020 for the Hazardous waste categories 5.1,

31/03/2025 to Board within a week's time.

For Member Secretary
Tamil Nadu Pollution Control Board
Chennai

To
The Director
CHEMPLAST SANMAR LIMITED - SANMAR SPECIALITY CHEMICALS DIVISION
No. 9, CATHEDRAL ROAD,
II FLOOR,CHENNAI
Pin:600086

Copy to:

1. The JCEE-Monitoring, Tamil Nadu Pollution Control Board, Vellore.
2. The District Environmental Engineer, Tamil Nadu Pollution Control Board, HOSUR.

TAMIL NADU POLLUTION CONTROL BOARD

ANNEXURE - II

REPORT OF ANALYSIS

1. Name of the Industry : M/s. Chemplast Sanmar Limited
2. Address of the Industry : (Speciality Chemicals Division)
   S.F.No : 44, Theertham Road Berigai, Shoolagiri Taluk
3. Category/Classification : Red /Large
4. Land Use Classification : Un – Classified/Rural
5. Date of Survey : 14.9.2022 & 15.9.2022
6. Duration of Survey : 24 Hours
7. Consent Order Number : 2005227031342

Meteorological Conditions

	Min	Max		Min	Max
Ambient Temperature (^{0} C)	24	29	Relative Humidity (%)	51	68
Weather Condition	Clear Sky		Rain Fall (mm)	NIL	
Predominant Wind Direction	SW-NE		Mean Wind Speed (km/hr)	7.2	

Ambient Air Quality Survey Results

Sl. No	Location	Direction *	Distance (m) *	Height From GL (m)	Pollutants Concentration			
					$PM_{(10)}$ µg/m^3	$PM_{(2.5)}$ µg/m^3	SO_2	NO_2
1	On the top of the Scaffolding Near Occupation Health Center	S	80	2	40	-	19	21
2	On the top of the Scaffolding Opposite to Petroleum Tank	NE	120	2	45	12	19	38
3	On the top of the Scaffolding Near Vechicle Parking	NW	100	2	11	-	12	24
4	On the top of the Scaffolding Near Scrap Unit	SE	170	2	18	-	15	28
5	On the top of Scaffolding Near Emergency Room	SW	100	2	32	13	23	30
6	On the top of the Scaffolding Production Plant	E	110	2	35	-	22	23

25/11/22
Environmental Scientist

K. Rajarammar 25/11/22
Deputy Chief Scientific Officer
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Hosur

TAMIL NADU POLLUTION CONTROL BOARD

AMBIENT AIR QUALITY SURVEY

1. Name of the Industry : M/s. Chemplast Sanmar Limite
2. Date of Survey : 14.9.2022 & 15.9.2022
3. Predominant Wind Direction : SW - NE
4. Weather Condition : Clear Sky

Station III –(S)
PM_{10} – 40 µg/m^3
SO_2 – 19 µg/m^3
NO_2 – 21 µg/m^3

Station I –(NE)
PM_{10} – 45 µg/m^3
$PM_{2.5}$ – 12 µg/m^3
SO_2 – 19 µg/m^3
NO_2 – 38 µg/m^3

Station VI –(NW)
PM_{10} – 11 µg/m^3
SO_2 – 12 µg/m^3
NO_2 – 24 µg/m^3

SOURCE

Station II –(E)
PM_{10} – 35µg/m^3
SO_2 – 22 µg/m^3
NO_2 – 23 µg/m^3

Station V –(SW)
PM_{10} – 32 µg/m^3
$PM_{2.5}$ 13 µg/m^3
SO_2 – 23 µg/m^3
NO_2 – 30 µg/m^3

Station IV –(SE)
PM_{10} – 18 µg/m^3
SO_2 – 15 µg/m^3
NO_2 – 28 µg/m^3

Meteorological Conditions:	
Predominant Wind Direction	SW – NE
Wind Speed	7.2 Km/hr
Weather Condition	Clear Sky
Rainfall	Nil

23/11/2022
Environmental Scientist

K. Rajaramrao 23/11/22
Deputy Chief Scientific Officer
District Environmental Laboratory
Tamil Nadu Pollution Control Board
Hosur

TAMIL NADU POLLUTION CONTROL BOARD

REPORT OF ANALYSIS

1. Name of the Industry : M/s. Chemplast Sanmar Limite

2. Address of the Industry : Sanmar Speciality Chemicals Div
S.F.No : 44, Theertham Road Berigai, Shoolagiri Taluk

3. Date of Survey : 14.9.2022 &15.9.2022

Stack Monitoring Survey Results

Sl. No.	Stack attached to	Stack Temp °K	Velocity in (m/ sec)	Discharge rate In (Nm^3/ Hr)	Pollutants (mg / Nm^3/hr)			
					PM	SO_2	NO_2	Acid Mist (HCL)
1.	Bioler 6 MT / hr **Fuel :** Wood **APC :** Stack	371	15.4	5597	21	19	46	--
2.	Scrubber Plant IV SC 101 A **Fuel :** Electric Power **APC :** Stack	303	16.8	1877	--	1.2	7.4	(2.6)
3.	Scrubber Plant IV DC 103 **Fuel :** Electric Power **APC :** Stack	302	15.7	7023	--	2.1	9.2	(6.1)
4.	Scrubber Plant 2-2C **Fuel :** Electric Power **APC :** Stack	303	16.3	1818	--	5.4	6.3	(3.2)

23/11/22
Environmental Scientist

K. Rajaraman 23/11/22
Deputy Chief Scientific Officer
District Environmental Laboratory
TamilNadu Pollution Control Board
Hosur

TAMIL NADU POLLUTION CONTROL BOARD

1. Name of the Industry : M/s. Chemplast Sanmar Limite
2. Address of the Industry : Sanmar Speciality Chemicals Div
   S.F.No : 44, Theertham Road,
   Berigai, Shoolagiri Taluk
3. Date of Survey : 14.9.2022 &15.9.2022
4. Category/Classification : Red /Large

Stack Monitoring Additional details

Sl. No.	Details of Stack mentioned in the Air Consent Order For which sampling have not done	Justification for the left out of stack Emission Sampling
1	Scrubber Plant I	Sampling not carried due to non-operation as reported by units letter dated 26.8.2022 and depends upon the product mix.
2	Absorber Plant I	
3	Scrubber Plant II	
4	Scrubber Rand D plant	
5	Phytoplant Srcubber	
6	Thermic Fluid Heater	
7	Scrubber at Pilot Point	
8	Scrubber Plant I	
9	DG Set (600KVA)	
10	Scrubber (Plant II)	
11	DG Set (600KVA)	
12	DG Set (600KVA)	
13	DG Set (600KVA)	

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Environmental Scientist

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ANNEXURE - 12

CHEMPLAST SANMAR LIMITED,
SANMAR SPECIALITY CHEMICALS DIVISION, BERIGAI

Details of Air pollution control system (APC system)

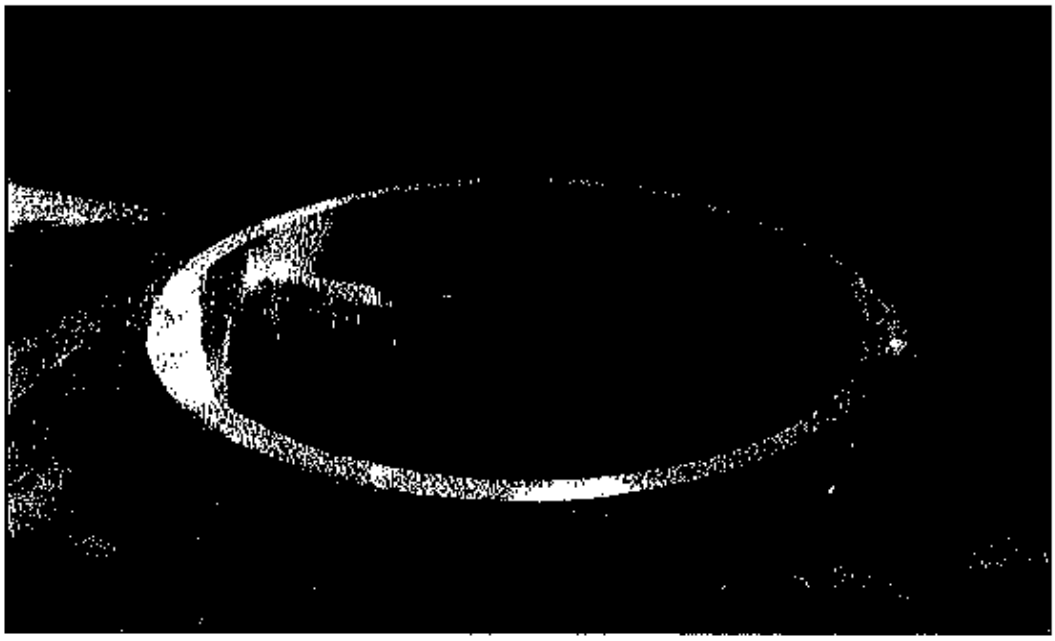
Technical Specification of APC System

SL.No.	Stack No	Source	Types of Air Pollution Control System	Top dimension	Height above GL	Material of Construction	Exit Gas Velocity	Exit Gas Temp	Max Discharge
1	1	Scrubber at Plant - I	Wet Alkali Scrubber, stack	0.25	6.1	PP- FRP Coat	19.747	30	35715.214
2	2	Scrubber at Plant - II	Wet Alkali Scrubber, stack	0.2	17	PP- FRP Coat	19.644	30	35528.924
3	3	Scrubber at Plant - II	Wet Alkali Scrubber, stack	0.25	17	PP- FRP Coat	19.644	30	35528.924
4	4	Scrubber at Plant - II	Wet Alkali Scrubber, stack	0.25	15	PP- FRP Coat	19.747	30	35715.214
5	5	Absorber at Plant - I	Wet Alkali Scrubber, stack	0.02	4	PP- FRP Coat		30	
6	6	Scrubber at R & D plant	Two stage wet alkali scrubber, stack	0.35	12	PP- FRP Coat	6.48	30	35892.46
7	7	Phyto Plant Scrubber (Process)	Wet Alkali Scrubber, stack	0.2	19	PP- FRP Coat	15.72	30	11106.18
8	9	Boiler -6 MT/Hr	Stack	0.7	40	MS	10.537	30	58362.913
9	11	Thermic Fluid Heater (11.akh Kcal/Hr)	Stack	0.25	9	PP- FRP Coat	14.43	30	10194.795
10	12	Diesel Generator Set 750 KVA	Stack	0.2	12	MS	24	30	10870
11	13	Diesel Generator Set 320 KVA	Stack	0.2	9.8	MS	18.36	30	8302
12	15	Scrubber at Plant - II	Wet Alkali Scrubber, stack	0.25	15	PP- FRP Coat	18.95	30	34273.728
13	16	Scrubber at Pilot Plant	Wet Alkali Scrubber, stack	0.25	6.1	PP- FRP Coat	17.48	30	24205.255
14	17	Scrubber at Plant - IV	Wet Alkali Scrubber, stack	0.2	17	FRVE	1.2	30	800
15	18	Scrubber at Plant - IV	Wet Alkali Scrubber, stack	0.25	17	FRVE	4.4	30	8600
16	19	Scrubber at Plant - IV	Wet Alkali Scrubber, stack	0.25	17	FRVE	0.8	30	416
17	20	Diesel Generator Set 600 KVA	Stack	0.2	12	MS	0.03	30	7080
18	21	Diesel Generator Set 600 KVA	Stack	0.2	12	MS	0.03	30	7080

ANNEXURE - 13.

Roof Rainwater Harvesting

RWH 1



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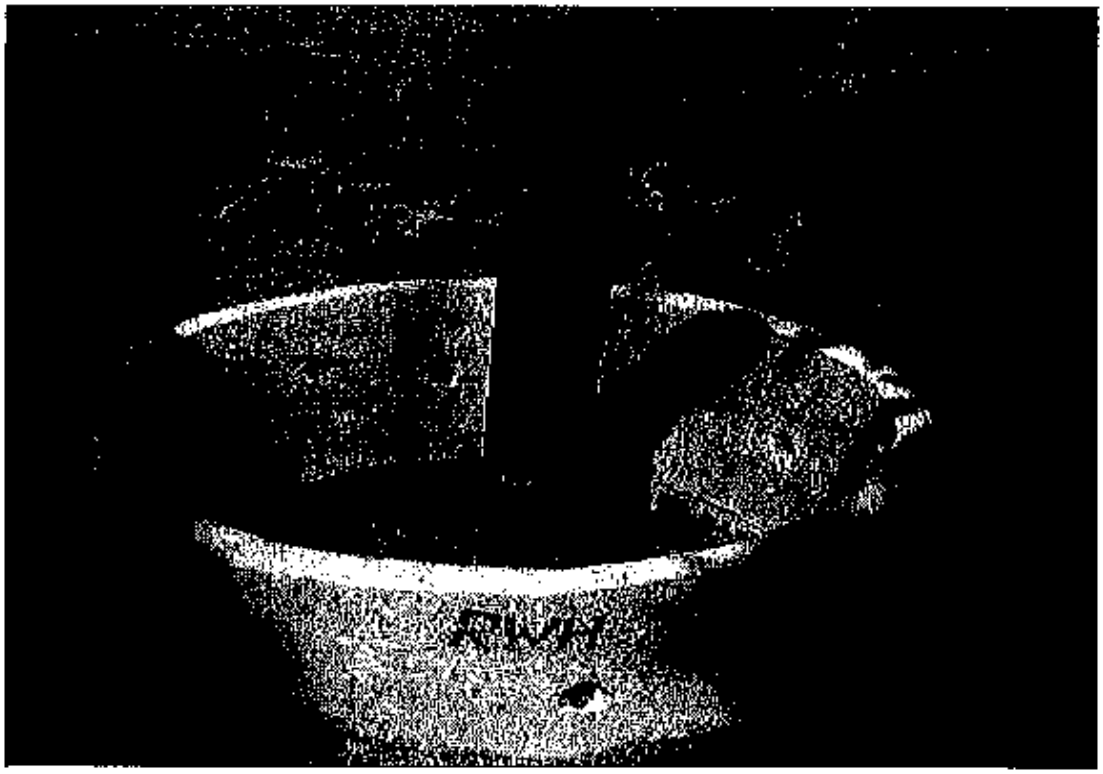

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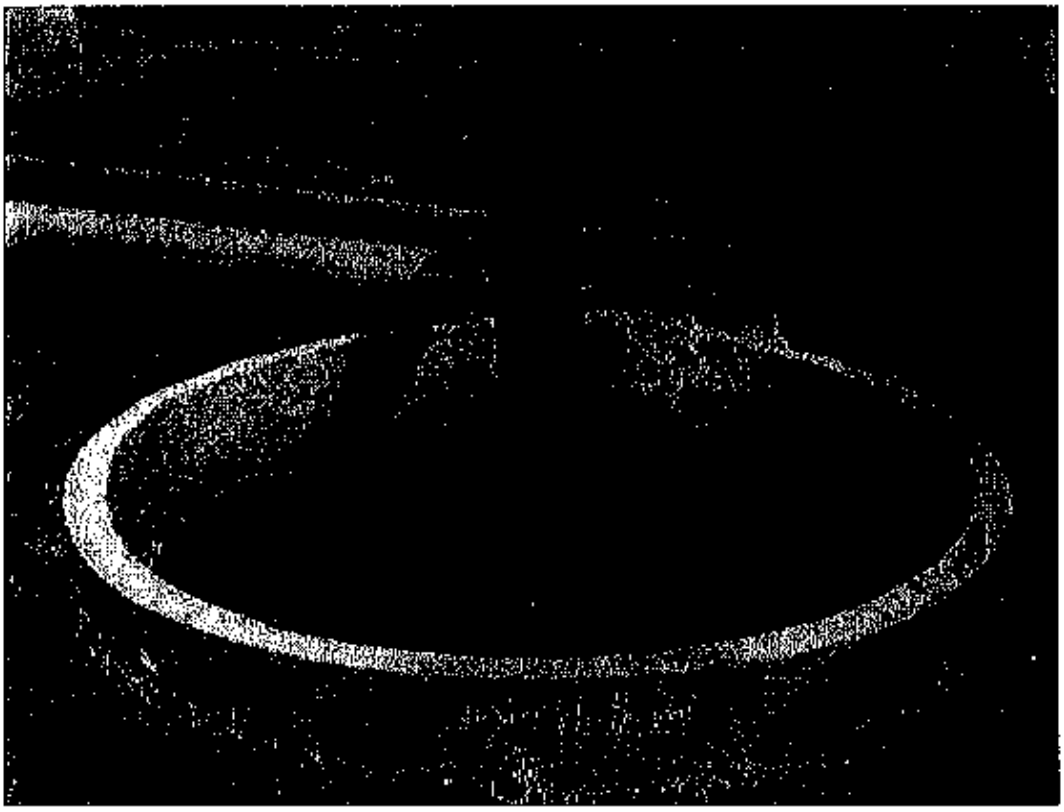

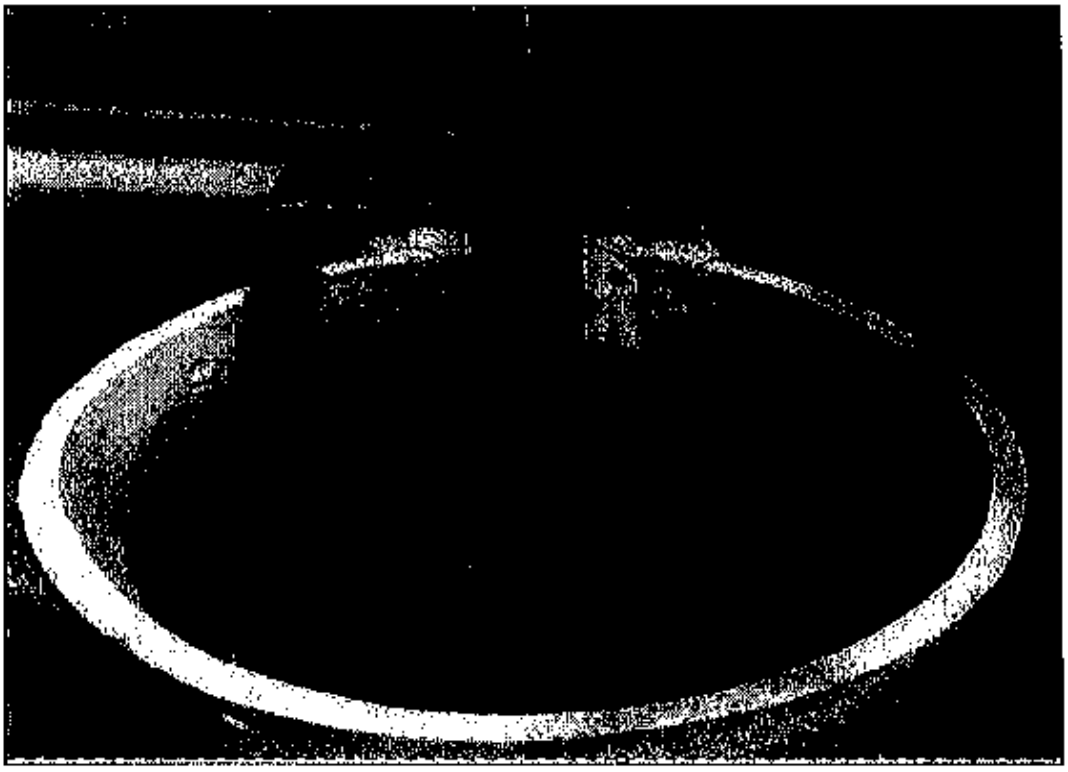

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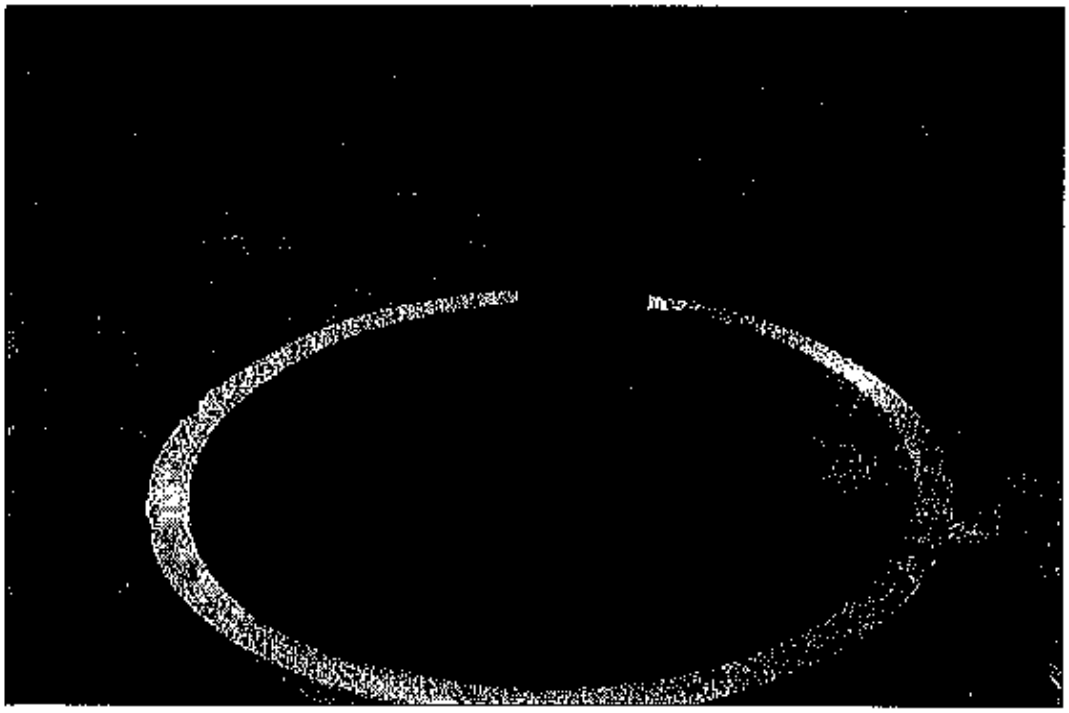

RWH 5