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 U24230TN1985PLC011637

YGB/RJ//MOEF/2021
OCTOBER -29, 2021

Addtional Principal Chief Conservation of Forests(c),
Mintryof Environment & Forests and Climate Change,
Regional Office (SEZ)
Ist and II nd Floor ,Handloom Export Promotion Council,
34, Cathedral Garden Road, Numgambakkam,
Chennai-600034

Sir,

Sub: Submission of SIX-MONTHLY PROGRESS REPORT ON THE IMPLEMENTATION STATUS OF ENVIRONMENTAL CONDITIONS – April-2021 to September 2021

We submit herewith the Six-monthly Progress Report on the implementation status of Environmental Conditions, for the period from April 2021 to September 2021.

Kindly acknowledge receipt.

Thanking you,

Yours faithfully,
For CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN.

29/10/2021
YOGEESWARA BASAPPA GOWDA
SR. VICE PRESIDENT - Operations

Encl: Six-monthly Report along with attachments.

Cc: The District Environmental Engineer,
Tamil Nadu Pollution Control Board,
HOSUR.

Along with copies of the enclosures.

CHEMPLAST SANMAR LIMITED.
SANMAR SPECIALITY CHEMICAL DIVISION., 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 RO system and multiple effect evaporator (MEE). The water recovered is totally reused in the process plant itself. The domestic waste water is also treated in the ETP. 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 board office, Chennai every month and once in six months to Additional Director, MoEF Regional office, Chennai. Enclosed as **Annexure-I**
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.
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. Ambient air quality survey and stack monitoring are conducted every month by authorized thirdparty and twice in a year by District Environment Laboratory, TNPCB, Hosur. Emission Levels are within the prescribed standards. **Reports enclosed as Annexure-II**

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 survey report and stack monitoring 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.
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-III**
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 have engaged a third party environment-monitoring agency to monitor AAQ survey 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-II**
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.** **D.System of leak detection and repair of**	 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 are 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. D. Periodic preventive maintenance and

S. No	Conditions Imposed	Compliance
	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.	inspection is done for all the equipments by the in-house Engineering team. 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-III**
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.
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
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-IV** and running cost for Effluent treatment systems are given as **Annexure V.**
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.

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. There is one exclusive sprinkler system, provided for bulk storage 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.**	Project activities were completed and there is no project activity at present. How ever, while starting new projects, Manpower required will be sourced from the neighbouring villages and facilities needed will be provided.

SANMAR SPECIALITY CHEMICALS LTD., BERIGAI.

COMPLIANCE TO THE CONDITIONS OF THE MINISTRY OF ENVIRONMENT AND FORESTS

S. No	Conditions Imposed	Compliance
1	General Condition. 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. We will approach the Ministry whenever expansion is proposed.
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 the manufacture, storage and import of hazardous chemicals rules, 1989, as amended in May 2000. We have the Authorisation from TNPCB for collection, Storage, Transportation and Disposal of Hazardous waste and valid upto 31.03.2026.
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.	AAQ survey is conducted on monthly basis in accordance with the predominant wind direction and AAQ survey conducted by TNPCB, twice a year is based on the down wind direction. **Reports enclosed as Annexure-II**
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 treated in the effluent treatment plant.

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 upto 25.06.2023
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 3 months in totally 7 locations in 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-VI**
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.
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.**	Conditions noted and six monthly progress report is sent to concerned monitoring agencies.
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**	The details about the Environment Clearance obtained for Project is already advertised in two local new papers and it has communicated to MoEF, Regional office, Chennai, Chennai Vide our letter no. mv/mdk/MoEF/090508 dated 21.05.2009.
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.**	Conditions noted and being compiled.

Date: 29.10.2021
Place: Berigai

29/10/2021
Name And Signature of Head of Facility
YOGEESWARA BASAPPA GOWDA

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Hosur

Stack Details

Report No. 03 /AAQ/SM/2020 – 2021

1. Name and Address of the Industry : SanmarSpecialityChemicals Ltd.
44 – TheerthamRoad ,Hosur (Tk)

2. Date of Survey : 27.05.2020

Sl. No.	Particulars		1	2
1.	Stack attached to		Boiler	Plant IVSC 101 A
2.	Details of process stack		SteamGeneration	AE Phenol Reaction
3.	Height from G.Level in (m)		40	6.0
4.	Diameter in (m)		0.4	0.2
5.	Port hole height from Ground Level or bends or ducts in (m)		25	3.0
6.	Fuel Used (with % Sulphur content)		Furnace oil 0.6%	NA
7.	Fuel Consumption rate per day (mention units)		--	NA
8.	Boiler type and capacity		6 T / Hr	NA
9.	APC Measures provided		MDC	Double Stage Wet Scrubber
10.	APC functional status		Functioning	Functioning
11.	Composition of flue gas	CO %	--	--
		CO_2	--	--
		O_2 %	--	--
12.	Moisture content in %		--	--
13.	Ambient temp in °K		304	303
14.	Temp of flue gas in °K		363	300
15.	Velocity of flue gas in m/sec		9.9644	15.6900
16.	Volume of flue gas sampled in m^3		1.008	0.060
17.	Gaseous Discharge rate per Hr in Nm^3/Hr		3698.73	1761.77
18.	Combustion efficiently %		--	--

Dy.C.S.O, 08/06/2020
DEL,TNPCB,Hosur.

Chief Scientific Officer,
District Environmental Laboratory,
TNPCB / Hosur.

TAMILNADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Hosur

Stack Details

Report No. 03 /AAQ/SM/2020 – 2021

1. Name and Address of the Industry : SanmarSpecialityChemicals Ltd.
   44 – TheerthamRoad ,Hosur (Tk)
2. Date of Survey : 27.05.2020

Sl. No.	Particulars		3	4
1.	Stack attached to		Plant IV SC 103 A	Plant II 2-2C
2.	Details of process stack		Room Scrubber	Caustic Lye Scrubber
3.	Height from G.Level in (m)		6.0	6.0
4.	Diameter in (m)		0.4	0.2
5.	Port hole height from Ground Level or bends or ducts in (m)		2.5	2.5
6.	Fuel Used (with % Sulphur content)		NA	NA
7.	Fuel Consumption rate per day (mention units)		NA	NA
8.	Boiler type & Capacity		NA	NA
9.	APC Measures provided		Double Stage Wet Scrubber	Double Stage Wet Scrubber
10.	APC functional status		Functioning	Functioning
11.	Composition of flue gas	CO %	--	--
		CO_2	--	
		O_2 %	--	--
12.	Moisture Content in %		--	
13.	Ambient temp in °K		304	304
14.	Temp of flue gas in °K		302	301
15.	Velocity of flue gas in m/sec		17.0035	18.1474
16.	Volume of flue gas sampled in m^3		0.06	0.06
17.	Gaseous Discharge rate per Hr in Nm^3/Hr		7586.47	2030.93
18.	Combustion efficiently %		--	--

Dy.C.S.O, 06/06/2020
DEL,TNPCB,Hosur.

Chief Scientific Officer,
District Environmental Laboratory,
TNPCB / Hosur.

TAMIL NADU POLLUTION CONTROL BOARD

District Environmental Laboratory, Hosur .

AMBIENT/SOURCE NOISE LEVEL SURVEY - Report of Analysis

Report No.03 / NLS/2020-2021 Date:05.06.2020

1.	Name of the Industry	M/s. SanmarSpeciality Chemicals Ltd ,
2.	Address of the Industry	44 – Theertham Road,Berigai ,Hosur (Tk)
3.	Date of Survey	27.05.2020

Category	Red / Large	**Land use Classification**	Unclassified
Type of Survey	Ambient	**Time of Survey**	Day
Meteorological conditions			Calm

Logging Parameters

Instrument Used	Quest Technologies			Serial No	C8110029
Logging Interval	10 Minutes each point			**Measuring Range**	40 - 100
Weighting	" A"	**Peak Weighting**	"C"	**Time Weighting**	FAST
Sound Incidence	RANDOM			**Time in hrs**	12.35 Hrs

Report of Noise Level Monitoring

Sl No	Location	Duration (min)	Distance (M)	Direction	Sound Level – dB (A)					
					L_{eq}	L_{90}	L_{50}	L_{10}	Min	Max
1	Near Labour Room	10	175	NE	52.8	51.5	50.7	53.8	49.6	60.2
2	Near OHT	10	175	SE	53.9	51.1	52.6	53.2	49.9	58.8
3	Near Gate No :03	10	225	SW	49.9	48.8	43.2	45.1	40.8	59.4
4	At Open Land	10	400	W	50.2	50.4	50.7	50.3	49.1	59.8
5	Behind AE Phenol Plant	10	200	NW	54.0	54.1	54.6	55.0	51.6	61.8

Note: L90 Value refers to background noise: L50 Value refers to mean noise. L10 value refers to nuisance or annoyance level :Leq value is the average energy for the measured period.

Dy.C.S.O, 06/06/2020
DEL,TNPCB,Hosur.

Chief Scientific Officer,
District Environmental Laboratory,
TNPCB / Hosur.

TAMIL NADU POLLUTION CONTROL BOARD
District Environmental Laboratory, Hosur.

INFERENCE REPORT ON AAQS/ S.M.

1. Name of Industry : M/s. Sanmar Speciality Chemicals Ltd, 44–Theertham Road, Berigai, Hosur(Tk)
2. Pollution Category : Red / Large
3. Date of A.A.Q. Survey : 27.06.2020
4. Predominant Wind Direction : South West to North West
5. Weather condition : Clear Sky

STATUS OF POLLUTANTS LEVEL

I. AMBIENT AIR QUALITY :-

1. Total No. of A.A.Q. stations monitored : 5
2. No. of A.A.Q. stations in which Pollutants Level exceeded the Boards standards : Nil.

Maximum and Minimum values of Pollutants Level observed:

Sl. No	POLLUTANT	Values in microgram/m^3.		BOARD's STANDARD (As per consent order)
		Maximum	Minimum	
1.	PM_{10}	62	40	100
2.	GASEOUS POLLUTANTS:-			
	(i) SO_2	14	-7-	80
	(ii) NO_2	18	-9-	80

II. STACK MONITORING:-

1. Total No. of Stacks Monitored : 4
2. No. of Stacks in which Pollutants level Exceeded the Boards standards : Nil

Dy.C.S.O, 06/06/2020
DEL,TNPCB,Hosur.

Chief Scientific Officer,
District Environmental Laboratory,
TNPCB / Hosur.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVISION. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF Apr-2021

Date	COD *250 ppm	BOD *30 ppm	TDS *2100 PPM	pH *5.5- 9.0	Phenolic compounds	Cyanide content	REMARKS
1-Apr-2021	210.0	NA	1550.0	6.9	BDL	BDL	
2-Apr-2021	200.0	NA	1600.0	7.0	BDL	BDL	
3-Apr-2021	200.0	NA	1500.0	6.9	BDL	BDL	
4-Apr-2021	190.0	NA	1450.0	7.8	BDL	BDL	
5-Apr-2021	200.0	NA	1500.0	7.4	BDL	BDL	
6-Apr-2021	190.0	NA	1450.0	7.8	BDL	BDL	
7-Apr-2021	180.0	NA	1450.0	7.0	BDL	BDL	
8-Apr-2021	200.0	NA	1400.0	7.2	BDL	BDL	
9-Apr-2021	200.0	NA	1550.0	7.3	BDL	BDL	
10-Apr-2021	210.0	NA	1550.0	7.2	BDL	BDL	
11-Apr-2021	220.0	NA	1500.0	7.1	BDL	BDL	
12-Apr-2021	200.0	NA	1600.0	7.4	BDL	BDL	
13-Apr-2021	190.0	NA	1500.0	6.8	BDL	BDL	
14-Apr-2021	210.0	NA	1450.0	6.9	BDL	BDL	
15-Apr-2021	220.0	NA	1650.0	7.0	BDL	BDL	
16-Apr-2021	220.0	NA	1550.0	7.2	BDL	BDL	
17-Apr-2021	200.0	NA	1500.0	7.6	BDL	BDL	
18-Apr-2021	190.0	NA	1400.0	6.8	BDL	BDL	
19-Apr-2021	220.0	NA	1650.0	6.8	BDL	BDL	
20-Apr-2021	180.0	NA	1450.0	7.5	BDL	BDL	
21-Apr-2021	200.0	NA	1500.0	7.5	BDL	BDL	
22-Apr-2021	220.0	NA	1450.0	7.7	BDL	BDL	
23-Apr-2021	210.0	NA	1550.0	7.2	BDL	BDL	
24-Apr-2021	190.0	NA	1400.0	7.2	BDL	BDL	
25-Apr-2021	210.0	NA	1500.0	6.8	BDL	BDL	
26-Apr-2021	190.0	NA	1450.0	7.1	BDL	BDL	
27-Apr-2021	180.0	NA	1550.0	7.6	BDL	BDL	
28-Apr-2021	190.0	NA	1400.0	6.9	BDL	BDL	
29-Apr-2021	220.0	NA	1500.0	7.4	BDL	BDL	
30-Apr-2021	220.0	NA	1550.0	7.6	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 DIVISION. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF May-2021

Date	COD *250 ppm	BOD *30 ppm	TDS *2100 PPM	pH *5.5- 9.0	Phenolic compounds	Cyanide content	REMARKS
1-May-2021	230.0	NA	1500.0	6.6	BDL	BDL	
2-May-2021	220.0	NA	1600.0	6.8	BDL	BDL	
3-May-2021	210.0	NA	1550.0	7.0	BDL	BDL	
4-May-2021	190.0	NA	1400.0	7.2	BDL	BDL	
5-May-2021	180.0	NA	1450.0	7.3	BDL	BDL	
6-May-2021	200.0	NA	1550.0	7.0	BDL	BDL	
7-May-2021	210.0	NA	1600.0	6.9	BDL	BDL	
8-May-2021	220.0	NA	1550.0	7.0	BDL	BDL	
9-May-2021	230.0	NA	1500.0	7.1	BDL	BDL	
10-May-2021	220.0	NA	1450.0	7.6	BDL	BDL	
11-May-2021	210.0	NA	1400.0	6.8	BDL	BDL	
12-May-2021	190.0	NA	1600.0	6.7	BDL	BDL	
13-May-2021	200.0	NA	1500.0	6.9	BDL	BDL	
14-May-2021	220.0	NA	1550.0	7.2	BDL	BDL	
15-May-2021	210.0	NA	1600.0	7.1	BDL	BDL	
16-May-2021	200.0	NA	1450.0	7.0	BDL	BDL	
17-May-2021	190.0	NA	1400.0	7.6	BDL	BDL	
18-May-2021	180.0	NA	1500.0	6.9	BDL	BDL	
19-May-2021	220.0	NA	1550.0	6.8	BDL	BDL	
20-May-2021	210.0	NA	1600.0	6.7	BDL	BDL	
21-May-2021	230.0	NA	1700.0	6.6	BDL	BDL	
22-May-2021	220.0	NA	1450.0	7.2	BDL	BDL	
23-May-2021	210.0	NA	1650.0	7.0	BDL	BDL	
24-May-2021	220.0	NA	1600.0	6.9	BDL	BDL	
25-May-2021	200.0	NA	1450.0	7.2	BDL	BDL	
26-May-2021	190.0	NA	1550.0	7.3	BDL	BDL	
27-May-2021	180.0	NA	1700.0	7.1	BDL	BDL	
28-May-2021	190.0	NA	1450.0	7.0	BDL	BDL	
29-May-2021	180.0	NA	1400.0	7.6	BDL	BDL	
30-May-2021	200.0	NA	1650.0	6.9	BDL	BDL	
31-May-2021	220.0	NA	1700.0	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 DIVISION. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF Jun-2021

Date	COD *250 ppm	BOD *30 ppm	TDS *2100 PPM	pH *5.5- 9.0	Phenolic compounds	Cyanide content	REMARKS
1-Jun-2021	200.0	NA	1400.0	6.9	BDL	BDL	
2-Jun-2021	220.0	NA	1600.0	7.0	BDL	BDL	
3-Jun-2021	210.0	NA	1500.0	7.2	BDL	BDL	
4-Jun-2021	220.0	NA	1550.0	7.1	BDL	BDL	
5-Jun-2021	200.0	NA	1600.0	7.0	BDL	BDL	
6-Jun-2021	190.0	NA	1450.0	6.8	BDL	BDL	
7-Jun-2021	180.0	NA	1400.0	6.9	BDL	BDL	
8-Jun-2021	190.0	NA	1500.0	7.2	BDL	BDL	
9-Jun-2021	180.0	NA	1550.0	7.1	BDL	BDL	
10-Jun-2021	200.0	NA	1650.0	7.4	BDL	BDL	
11-Jun-2021	220.0	NA	1500.0	6.8	BDL	BDL	
12-Jun-2021	200.0	NA	1550.0	6.7	BDL	BDL	
13-Jun-2021	210.0	NA	1650.0	6.9	BDL	BDL	
14-Jun-2021	220.0	NA	1550.0	6.8	BDL	BDL	
15-Jun-2021	190.0	NA	1500.0	6.8	BDL	BDL	
16-Jun-2021	220.0	NA	1400.0	7.0	BDL	BDL	
17-Jun-2021	180.0	NA	1550.0	7.2	BDL	BDL	
18-Jun-2021	200.0	NA	1500.0	7.3	BDL	BDL	
19-Jun-2021	220.0	NA	1600.0	7.0	BDL	BDL	
20-Jun-2021	210.0	NA	1500.0	6.9	BDL	BDL	
21-Jun-2021	200.0	NA	1500.0	7.0	BDL	BDL	
22-Jun-2021	220.0	NA	1600.0	7.1	BDL	BDL	
23-Jun-2021	210.0	NA	1550.0	7.6	BDL	BDL	
24-Jun-2021	190.0	NA	1400.0	7.2	BDL	BDL	
25-Jun-2021	180.0	NA	1450.0	7.1	BDL	BDL	
26-Jun-2021	200.0	NA	1550.0	7.0	BDL	BDL	
27-Jun-2021	210.0	NA	1600.0	7.6	BDL	BDL	
28-Jun-2021	220.0	NA	1550.0	6.9	BDL	BDL	
29-Jun-2021	210.0	NA	1500.0	6.8	BDL	BDL	
30-Jun-2021	220.0	NA	1450.0	6.7	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 DIVISION. Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF Jul-2021

Date	COD *250 ppm	BOD *30 ppm	TDS *2100 PPM	pH *5.5- 9.0	Phenolic compounds	Cyanide content	REMARKS
1-Jul-2021	220.0	NA	1450.0	6.8	BDL	BDL	
2-Jul-2021	210.0	NA	1500.0	7.1	BDL	BDL	
3-Jul-2021	200.0	NA	1600.0	6.9	BDL	BDL	
4-Jul-2021	230.0	NA	1600.0	7.2	BDL	BDL	
5-Jul-2021	200.0	NA	1550.0	7.1	BDL	BDL	
6-Jul-2021	220.0	NA	1500.0	6.9	BDL	BDL	
7-Jul-2021	230.0	NA	1450.0	6.8	BDL	BDL	
8-Jul-2021	210.0	NA	1400.0	6.9	BDL	BDL	
9-Jul-2021	200.0	NA	1500.0	7.1	BDL	BDL	
10-Jul-2021	200.0	NA	1600.0	7.4	BDL	BDL	
11-Jul-2021	200.0	NA	1550.0	6.9	BDL	BDL	
12-Jul-2021	220.0	NA	1450.0	7.0	BDL	BDL	
13-Jul-2021	210.0	NA	1400.0	7.2	BDL	BDL	
14-Jul-2021	220.0	NA	1500.0	7.0	BDL	BDL	
15-Jul-2021	200.0	NA	1450.0	6.9	BDL	BDL	
16-Jul-2021	190.0	NA	1400.0	6.8	BDL	BDL	
17-Jul-2021	180.0	NA	1600.0	7.4	BDL	BDL	
18-Jul-2021	190.0	NA	1550.0	7.2	BDL	BDL	
19-Jul-2021	180.0	NA	1400.0	6.8	BDL	BDL	
20-Jul-2021	200.0	NA	1550.0	7.0	BDL	BDL	
21-Jul-2021	220.0	NA	1600.0	7.2	BDL	BDL	
22-Jul-2021	210.0	NA	1450.0	7.1	BDL	BDL	
23-Jul-2021	220.0	NA	1500.0	6.9	BDL	BDL	
24-Jul-2021	190.0	NA	1550.0	6.8	BDL	BDL	
25-Jul-2021	220.0	NA	1400.0	7.0	BDL	BDL	
26-Jul-2021	180.0	NA	1500.0	7.2	BDL	BDL	
27-Jul-2021	200.0	NA	1500.0	7.3	BDL	BDL	
28-Jul-2021	220.0	NA	1450.0	6.7	BDL	BDL	
29-Jul-2021	210.0	NA	1550.0	6.9	BDL	BDL	
30-Jul-2021	200.0	NA	1500.0	6.7	BDL	BDL	
31-Jul-2021	220.0	NA	1600.0	6.9	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 DIVISION, Berigai

Annexure I

REPORT ON TREATED EFFLUENT WATER MONTH OF Aug-2021

Date	COD *250 ppm	BOD *30 ppm	TDS *2100 PPM	pH *5.5- 9.0	Phenolic compounds	Cyanide content	REMARKS
1-Aug-2021	200.0	NA	1400.0	7.3	BDL	BDL	
2-Aug-2021	210.0	NA	1550.0	7.1	BDL	BDL	
3-Aug-2021	220.0	NA	1500.0	6.9	BDL	BDL	
4-Aug-2021	20.0	NA	1400.0	6.8	BDL	BDL	
5-Aug-2021	200.0	NA	1450.0	7.0	BDL	BDL	
6-Aug-2021	210.0	NA	1600.0	7.2	BDL	BDL	
7-Aug-2021	220.0	NA	1400.0	7.3	BDL	BDL	
8-Aug-2021	220.0	NA	1450.0	6.7	BDL	BDL	
9-Aug-2021	210.0	NA	1550.0	6.9	BDL	BDL	
10-Aug-2021	200.0	NA	1500.0	6.7	BDL	BDL	
11-Aug-2021	230.0	NA	1450.0	6.9	BDL	BDL	
12-Aug-2021	210.0	NA	1350.0	6.8	BDL	BDL	
13-Aug-2021	190.0	NA	1450.0	7.1	BDL	BDL	
14-Aug-2021	210.0	NA	1500.0	6.9	BDL	BDL	
15-Aug-2021	220.0	NA	1550.0	7.5	BDL	BDL	
16-Aug-2021	180.0	NA	1600.0	7.1	BDL	BDL	
17-Aug-2021	190.0	NA	1400.0	6.9	BDL	BDL	
18-Aug-2021	210.0	NA	1550.0	6.7	BDL	BDL	
19-Aug-2021	220.0	NA	1450.0	6.9	BDL	BDL	
20-Aug-2021	210.0	NA	1550.0	7.1	BDL	BDL	
21-Aug-2021	200.0	NA	1400.0	7.4	BDL	BDL	
22-Aug-2021	190.0	NA	1450.0	6.9	BDL	BDL	
23-Aug-2021	180.0	NA	1350.0	7.0	BDL	BDL	
24-Aug-2021	200.0	NA	1550.0	7.2	BDL	BDL	
25-Aug-2021	210.0	NA	1500.0	7.0	BDL	BDL	
26-Aug-2021	220.0	NA	1500.0	6.9	BDL	BDL	
27-Aug-2021	190.0	NA	1450.0	6.7	BDL	BDL	
28-Aug-2021	180.0	NA	1450.0	7.5	BDL	BDL	
29-Aug-2021	200.0	NA	1500.0	7.2	BDL	BDL	
30-Aug-2021	210.0	NA	1500.0	6.8	BDL	BDL	
31-Aug-2021	200.0	NA	1600.0	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 I

REPORT ON TREATED EFFLUENT WATER MONTH OF September-2021

Date	COD *250 ppm	BOD *30 ppm	TDS *2100 PPM	pH *5.5- 9.0	Phenolic compounds	Cyanide content	REMARKS
1-Sep-2021	230.0	NA	1450.0	7.5	BDL	BDL	
2-Sep-2021	200.0	NA	1500.0	7.1	BDL	BDL	
3-Sep-2021	220.0	NA	1400.0	7.2	BDL	BDL	
4-Sep-2021	210.0	NA	1300.0	7.0	BDL	BDL	
5-Sep-2021	200.0	NA	1450.0	7.0	BDL	BDL	
6-Sep-2021	210.0	NA	1500.0	7.2	BDL	BDL	
7-Sep-2021	210.0	NA	1400.0	7.1	BDL	BDL	
8-Sep-2021	200.0	NA	1500.0	6.9	BDL	BDL	
9-Sep-2021	190.0	NA	1400.0	7.2	BDL	BDL	
10-Sep-2021	200.0	NA	1500.0	7.4	BDL	BDL	
11-Sep-2021	210.0	NA	1450.0	7.2	BDL	BDL	
12-Sep-2021	220.0	NA	1350.0	6.9	BDL	BDL	
13-Sep-2021	220.0	NA	1400.0	7.1	BDL	BDL	
14-Sep-2021	210.0	NA	1450.0	7.7	BDL	BDL	
15-Sep-2021	200.0	NA	1500.0	7.7	BDL	BDL	
16-Sep-2021	200.0	NA	1450.0	7.2	BDL	BDL	
17-Sep-2021	210.0	NA	1400.0	7.3	BDL	BDL	
18-Sep-2021	220.0	NA	1450.0	6.9	BDL	BDL	
19-Sep-2021	220.0	NA	1400.0	7.4	BDL	BDL	
20-Sep-2021	200.0	NA	1500.0	7.1	BDL	BDL	
21-Sep-2021	200.0	NA	1350.0	7.7	BDL	BDL	
22-Sep-2021	190.0	NA	1300.0	7.2	BDL	BDL	
23-Sep-2021	180.0	NA	1400.0	7.0	BDL	BDL	
24-Sep-2021	200.0	NA	1400.0	7.6	BDL	BDL	
25-Sep-2021	210.0	NA	1300.0	7.4	BDL	BDL	
26-Sep-2021	230.0	NA	1400.0	7.4	BDL	BDL	
27-Sep-2021	190.0	NA	1450.0	7.2	BDL	BDL	
28-Sep-2021	200.0	NA	1400.0	7.5	BDL	BDL	
29-Sep-2021	220.0	NA	1300.0	7.7	BDL	BDL	
30-Sep-2021	210.0	NA	1400.0	7.4	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 DIVISION. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:Apr-2021 FOR/SHE/044

WIND DIRECTION : East to SouthWest

DURATION OF SURVEY :24 HOURS

Station No.	Location of Sample	Temp °C		Relative Humudity %	Concentration µg/Nm^3								Conc. in mg/Nm^3	Conc. in ng/Nm^3		
		Max.	Min.		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	32.9	23.2	Max:74.7 Mini:46.5	62.0	34.0	6.7	22.0	10.0	0.05	2.0	2.0	0.309	20.0	0.1	0.04
2	NEAR TANK FARM AREA	32.9	23.2	Max:74.7 Mini:46.5	66.0	31.0	8.2	24.0	10.0	0.05	2.0	2.0	0.342	20.0	0.1	0.04
3	NEAR ENVIRONMENTAL LAB	32.9	23.2	Max:74.7 Mini:46.5	84.0	47.0	11.9	31.0	10.0	0.05	2.0	2.0	0.390	20.0	0.1	0.04
4	NEAR LANDFILLAREA	32.9	23.2	Max:74.7 Mini:46.5	53.0	26.0	4.9	15.0	10.0	0.05	2.0	2.0	0.268	20.0	0.1	0.04
5	NEAR PHYTO PLANT SECURITY GATE	32.9	23.2	Max:74.7 Mini:46.5	75.0	39.0	7.8	28.0	10.0	0.05	2.0	2.0	0.356	20.0	0.1	0.04

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

Note: Analysis carried out by Nawal labs, Hosur

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVISION. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:May-2021 FOR/SHE/044

WIND DIRECTION : East to SouthWest

DURATION OF SURVEY :24 HOURS

Station No.	Location of Sample	Temp °C		Relative Humudity %	Concentration µg/Nm^3								Conc. in mg/Nm^3	Conc. in ng/Nm^3		
		Max.	Min.		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	31.2	22.6	Max:76.1 Mini:47.5	57.0	32.0	5.0	17.0	10.0	0.05	2.0	2.0	0.275	20.0	0.1	0.10
2	NEAR TANK FARM AREA	31.2	22.6	Max:76.1 Mini:47.5	51.0	28.0	6.9	20.0	10.0	0.05	2.0	2.0	0.361	20.0	0.1	0.10
3	NEAR ENVIRONMENTAL LAB	31.2	22.6	Max:76.1 Mini:47.5	76.0	43.0	12.6	29.0	10.0	0.05	2.0	2.0	0.371	20.0	0.1	0.10
4	NEAR LANDFILLAREA	31.2	22.6	Max:76.1 Mini:47.5	45.0	21.0	5.0	12.0	10.0	0.05	2.0	2.0	0.245	20.0	0.1	0.10
5	NEAR PHYTO PLANT SECURITY GATE	31.2	22.6	Max:76.1 Mini:47.5	68.0	36.0	9.1	26.0	10.0	0.05	2.0	2.0	0.334	20.0	0.1	0.10

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

Note: Analysis carried out by Nawal labs, Hosur

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVISION. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:Jun-2021 FOR/SHE/044

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

Station No.	Location of Sample	Temp °C		Relative Humudity %	Concentration µg/Nm^3								Conc. in mg/Nm^3	Conc. in ng/Nm^3		
		Max.	Min.		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	27.3	21.3	Max:81.1 Mini:52.6	66.0	35.0	6.3	21.0	10.0	0.05	2.0	2.0	0.311	20.0	0.1	0.10
2	NEAR TANK FARM AREA	27.3	21.3	Max:81.1 Mini:52.6	60.0	33.0	7.7	25.0	10.0	0.05	2.0	2.0	0.328	20.0	0.1	0.10
3	NEAR ENVIRONMENTAL LAB	27.3	21.3	Max:81.1 Mini:52.6	82.0	46.0	10.8	32.0	10.0	0.05	2.0	2.0	0.385	20.0	0.1	0.10
4	NEAR LANDFILLAREA	27.3	21.3	Max:81.1 Mini:52.6	40.0	17.0	5.0	15.0	10.0	0.05	2.0	2.0	0.260	20.0	0.1	0.10
5	NEAR PHYTO PLANT SECURITY GATE	27.3	21.3	Max:81.1 Mini:52.6	72.0	38.0	8.4	28.0	10.0	0.05	2.0	2.0	0.356	20.0	0.1	0.10

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

Note: Analysis carried out by Nawal labs, Hosur

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVISION. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:Jul-2021 FOR/SHE/044

WIND DIRECTION : East to SouthWest

DURATION OF SURVEY :24 HOURS

Station No.	Location of Sample	Temp °C		Relative Humudity %	Concentration µg/Nm^3								Conc. in mg/Nm^3	Conc. in ng/Nm^3		
		Max.	Min.		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	27.3	21.3	Max:81.1 Mini:52.6	66.0	35.0	6.3	21.0	10.0	0.05	2.0	2.0	0.311	20.0	0.1	0.10
2	NEAR TANK FARM AREA	27.3	21.3	Max:81.1 Mini:52.6	60.0	33.0	7.7	25.0	10.0	0.05	2.0	2.0	0.328	20.0	0.1	0.10
3	NEAR ENVIRONMENTAL LAB	27.3	21.3	Max:81.1 Mini:52.6	82.0	46.0	10.8	32.0	10.0	0.05	2.0	2.0	0.385	20.0	0.1	0.10
4	NEAR LANDFILLAREA	27.3	21.3	Max:81.1 Mini:52.6	40.0	17.0	5.0	15.0	10.0	0.05	2.0	2.0	0.260	20.0	0.1	0.10
5	NEAR PHYTO PLANT SECURITY GATE	27.3	21.3	Max:81.1 Mini:52.6	72.0	38.0	8.4	28.0	10.0	0.05	2.0	2.0	0.356	20.0	0.1	0.10

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
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CO → Carbon mono oxide
BaP → Benzo pyrene
As → Arsenic
Ni → Nickel

Note: Analysis carried out by Nawal labs, Hosur

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

FOR/SHE/044

MONTH:Aug-2021
WIND DIRECTION : East to SouthWest
DURATION OF SURVEY :24 HOURS

Station No.	Location of Sample	Temp °C	Relative Humudity %	Concentration µg/Nm^3								Conc. in mg/Nm^3	Conc. in ng/Nm^3		
		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	28.0	56	53.5	21.7	10.2	12.6	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
2	NEAR TANK FARM AREA	28.0	56	58.6	22.7	9.6	13.6	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
3	NEAR ENVIRONMENTAL LAB	28.0	56	59.2	24.7	7.6	11.6	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
4	NEAR PHYTO PLANT SECURITY GATE	28.0	56	47.0	23.5	7.8	10.4	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 - 2

AMBIENT AIR QUALITY SURVEY - ANALYSIS REPORT

MONTH:September-2021
WIND DIRECTION : East to SouthWest
DURATION OF SURVEY :24 HOURS

FOR/SHE/044

Station No.	Location of Sample	Temp °C	Relative Humudity %	Concentration µg/Nm^3								Conc. in mg/Nm^3	Conc. in ng/Nm^3		
		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	30.0	58	30.5	15.2	8.8	12.9	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
2	NEAR TANK FARM AREA	32.0	56	59.2	18.1	10.0	13.5	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
3	NEAR ENVIRONMENTAL LAB	30.0	57	30.2	18.1	9.1	15.7	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
4	NEAR PHYTO PLANT SECURITY GATE	32.0	56	48.5	14.0	8.8	12.9	BDL	BLQ	BLQ	BLQ	BDL	BDL	BLQ	BLQ
	LAND FILL AREA	33.0	56	503.0	18.1	18.5	14.1	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 DIVISION. Berigai

Annexure - 3 Anaysis Report For the month of Apr-2021

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C		Gas Discharge velocity (m/sec)	Analysis Results			
			Ambient	Flue gas		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)
1	Boiler 6T/hr	--	34.00	168.00	5.65	90.00	713.00	358.00	123.00
2	Plant -4 Scrubber-101A	-	33.00	46.00	7.34	BDL	BDL	BDL	16.00
3	Plant -4 Scrubber-102		33.00	36.00	5.28	BDL	BDL	BDL	21.00
4	Plant -4 Scrubber-103	--	33.00	35.00	8.25	BDL	BDL	BDL	32.00
5	Plant -2 scrubber - 2	--	33.00	33.00	5.40	BDL	BDL	BDL	24.00

Note:Analysis carried out by NAWAL Labs,Hosur.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVISION. Berigai

Annexure - 3 Anaysis Report For the month of May-2021

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C		Gas Discharge velocity (m/sec)	Analysis Results			
			Ambient	Flue gas		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)
1	Boiler 6T/hr	--	31.00	175.00	5.32	79.00	625.00	311.00	98.00
2	Plant -4 Scrubber-101A	-	30.00	41.00	7.05	BDL	BDL	BDL	23.00
3	Plant -4 Scrubber-102		31.00	35.00	5.54	BDL	BDL	BDL	18.00
4	Plant -4 Scrubber-103	--	31.00	34.00	8.50	BDL	BDL	BDL	26.00
5	Plant -2 scrubber - 2	--	30.00	30.00	5.28	BDL	BDL	BDL	30.00

Note:Analysis carried out by NAWAL Labs,Hosur.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVISION. Berigai

Annexure - 3 Anaysis Report For the month of Jun-2021

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C		Gas Discharge velocity (m/sec)	Analysis Results			
			Ambient	Flue gas		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)
1	Boiler 6T/hr	--	29.00	164.00	5.57	87.00	686.00	334.00	115.00
2	Plant -4 Scrubber-101A	-	28.00	40.00	7.28	BDL	BDL	BDL	14.00
3	Plant -4 Scrubber-102		29.00	33.00	5.36	BDL	BDL	BDL	22.00
4	Plant -4 Scrubber-103	--	29.00	31.00	8.71	BDL	BDL	BDL	33.00
5	Plant -2 scrubber - 2	--	28.00	28.00	5.63	BDL	BDL	BDL	25.00

Note:Analysis carried out by NAWAL Labs,Hosur.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVISION. Berigai

Annexure - 3 Anaysis Report For the month of Jul-2021

S.NO	STACK DETAILS	TNPCB LIMIT SPM (mg/Nm3)	Temperature C		Gas Discharge velocity (m/sec)	Analysis Results			
			Ambient	Flue gas		SPM (mg/Nm3)	SO2 (mg/Nm3)	NOX (mg/Nm3)	CO(MG/Nm3)
1	Boiler 6T/hr	--	29.00	164.00	5.57	87.00	686.00	334.00	115.00
2	Plant -4 Scrubber-101A	-	28.00	40.00	7.28	BDL	BDL	BDL	14.00
3	Plant -4 Scrubber-102		29.00	33.00	5.36	BDL	BDL	BDL	22.00
4	Plant -4 Scrubber-103	--	29.00	31.00	8.71	BDL	BDL	BDL	33.00
5	Plant -2 scrubber - 2	--	28.00	28.00	5.63	BDL	BDL	BDL	25.00

Note:Analysis carried out by NAWAL Labs,Hosur.

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 3 Anaysis Report For the month of Aug-2021

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)
1	Boiler 6T/hr	--	28.00	BDL	11.10	49.00	164.00	119.00
2	Plant -4 Scrubber-101A	-	28.00	BDL	14.50	BDL	BDL	16.00
3	Plant -4 Scrubber-102		28.00	BDL	16.40	BDL	BDL	31.00
4	Plant -4 Scrubber-103	--	28.00	BDL	17.80	BDL	BDL	14.00
5	Plant -2 scrubber - 2	--	28.00	BDL	13.80	28.40	2.00	BDL

Note:Analysis carried out by Glens lab,chennai

BDL-Below detection limit

CHEMPLAST SANMAR LIMITED

SANMAR SPECIALITY CHEMICALS DIVN. Berigai

Annexure - 3 Anaysis Report For the month of September-2021

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)
1	Boiler 6T/hr	--	30.00	NA	54.60	32.70	144.00	103.00
2	Plant -4 Scrubber-101A	-	30.00	BDL	41.10	BDL	2.00	21.00
3	Plant -4 Scrubber-102		30.00	BDL	28.10	BDL	2.00	42.00
4	Plant -4 Scrubber-103	--	30.00	BDL	24.60	BDL	2.00	21.00
5	Plant -2 scrubber - 2	--	30.00	BDL	44.50	4.40	5.00	BDL

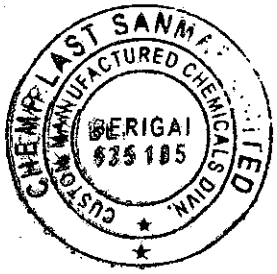
Note:Analysis carried out by Glens lab,chennai

BDL-Below detection limit

CHEMPLAST SANMAR *LIMITED,*
SANMAR SPECIALITY CHEMICALS DIVISION, BERIGAI
ANNEXURE -IV

PROPOSED INVESTMENT DURING THE CURRENT FINANCIAL YEAR 2021-2022

NO	Description	Cost of installations (Rs. In lakhs)	Purpose
1	Biological Treatment Plant expansion	100.0	To Enhance the treated effluent quality
	Total	100.0	



ANNEXURE - V

CHEMPLAST SANMAR LIMITED, SANMAR SPECIALITY CHEMICALS DIVISION, BERIGAI.

EXPENDITURE INCURRED FOR ETP OPERATIONS

APRIL-2021 to SEPTEMBER-2021

Month and year	Chemicals & Consumables Rs.	Electricity Rs.	Manpower Rs.	Steam Cost for MEE Rs.	Total Expenditure Rs.
Apr-21	**72416.00**	1390699.00	954463.00	3112657.00	**5,530,235.00**
May-21	**151835.00**	1202515.00	894635.00	3273208.00	**5,522,193.00**
Jun-21	**64931.00**	1167050.00	875864.00	3356546.00	**5,464,391.00**
Jul-21	**54929.00**	1143109.00	931166.00	3572941.00	**5,702,145.00**
Aug-21	**99202.00**	807816.00	844041.00	3273713.00	**5,024,772.00**
Sep-21	**252726.00**	720611.00	836552.00	3879322.00	**5,689,211.00**

Total Expenditure FROM APRIL-2021 to SEPTEMBER-2021 Rs. 32,932,947.00

CHEMPLAST SANMAR LIMITED CUSTOM MANUFACTURED CHEMICALS DIVN. BERIGAI 635 105

Annexure VI

CHEMPLAST SANMAR LIMITED
SANMAR SPECIALITY CHEMICALS DIVISION , BERIGAI

Noise level monitoring for the period April-2021 to September- 2021

Sl No	Location	Direction	Distance	Noise Level (A)	
				05.04.2021	08.07.2021
1	Near Main Security	S	144	48	52
2	Opposite to Phyto Plant Entrance	SW	210	42	54
3	Behind Phyto Crushing area	W	170	52	58
4	Near Scrap Yard	NW	100	58	55
5	Near ETP area entrance	NW	65	50.0	48
6	Near storm water collection tank	NE	100	47	42
7	Near overhead water tank	SE	155	45	45

.Done By.

Checked By.

CHEMPLAST SANMAR LIMITED MANUFACTURED CHEMICALS DIVN. BERIGAI 635 105 CUSTOM