



Chemplast Sanmar Limited

Paste PVC Plant:
SIPCOT Industrial Complex Phase-II
Semmankuppam Village Cuddalore 607005 India
Tel + 91 4142 202 010
E-mail: csl@sanmargroup.com
www.chemplastsanmar.com
CIN L24230TN1985PLC011637

CSL/CUD/ENV/06/2024/003

Date: 10.06.2024

To:

The Deputy Director General of Forest,
Ministry of Environment, Forests & Climate Change,
Integrated Regional Office (SEZ),
1st Floor Additional Office Block for GPOA, Shastri Bhavan,
Haddows Road,
Nungambakkam,
Chennai - 600006

Dear Sir,

Sub: Chemplast Sanmar Limited, SIPCOT Industrial Complex, Semmankuppam Village, Cuddalore,
Tamilnadu – Submission of EC Compliance report for the period October 2023 to March 2024 –
Reg.

Ref: Environment Clearance File No. IA-J-11011/132/2020-IA-II (I) dated 16th Nov, 2021.

With reference to the above, we herewith furnish the half yearly compliance report for the period of
October 2023 – March 2024 with respect to all specific and general conditions issued vide
Environment Clearance Identification No. EC21A020TN119228 dated 16th Nov, 2021

Thanking you.

For Chemplast Sanmar Limited,

G. Raguram
Plant Head

Encl: As above

Your (**Environment Clearance**) application has been **Submitted** with following details

Proposal No	IA/TN/IND2/156565/2020
Compliance ID	69637129
Compliance Number(For Tracking)	EC/M/COMPLIANCE/69637129/2024
Reporting Year	2024
Reporting Period	01 Jun(01 Oct - 31 Mar)
Submission Date	10-06-2024
IRO Name	V Geroge Jenner
IRO Email	tr025@ifs.nic.in
State	TAMIL NADU
IRO Office Address	Integrated Regional Offices, Chennai

Note:- SMS and E-Mail has been sent to V Geroge Jenner, TAMIL NADU with Notification to Project Proponent.

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

Proposal Name	Proposed Project of Poly Vinyl Chloride (PVC) Paste Resin Plant of 70,000 TPA Plant of M/s. Chemplast Sanmar Limited at Cuddalore, Tamilnadu		
Name of Entity / Corporate Office	CHEMPLAST SANMAR LIMITED		
Village(s)	N/A		
District	CUDDALORE		
Proposal No.	IA/TN/IND2/156565/2020	Category	Industrial Projects - 2
Plot / Survey / Khasra No.	N/A	Sub-District	N/A
State	TAMIL NADU	Entity's PAN	NA
MoEF File No.	IA-J-11011/132/2020-IA-II(I)	Entity name as per PAN	NA

Compliance Reporting Details

Reporting Year 2024
Remarks (if any)
Reporting Period 01 Jun(01 Oct - 31 Mar)

Details of Production and Project Area

Name of Entity / Corporate Office CHEMPLAST SANMAR LIMITED

	Project Area as per EC Granted	Annual Project Area in Possession
Private	0	0
Revenue Land	6.01	6.01
Forest	0	0
Others	0	0
Total	6.01	6.01

Production Capacity

Sr. no	Product Name	units	Valid Upto	Capacity	Production last year	Capacity as per CTO
1	Paste PVC Resin	Tons per Annum (TPA)	31/03/2028	70000	0	41000

Conditions

Specific Conditions

Sr.No.	Condition Type	Condition Details
1	AIR QUALITY MONITORING AND PRESERVATION	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 as amended time to time shall be followed.
PPs Submission: Complied The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9th November, 2012 is being followed and also in case of any amendment time to time is adhered.		Date: 10/06/2024
2	Risk Mitigation and Disaster Management	Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques.
PPs Submission: Complied Mitigation measures for credible scenarios will be derived from the Risk Assessment Studies, onsite emergencies related to operation & the emergency preparedness plan are ready. Mock drill to ensure the effectiveness of emergency preparedness conducted on 5th June 2024.		Date: 10/06/2024
3	Marine/Coastal	No project activity shall be undertaken in the CRZ-III (NDZ) area without prior permission from the Competent Authority. It shall be left in its natural state.
PPs Submission: Complied No project activity will be undertaken in CRZ-III (NDZ) area without prior permission from the Competent Authority.		Date: 10/06/2024
4	AIR QUALITY MONITORING AND PRESERVATION	Monitoring of compliance of EC conditions shall be submitted with third party audit every year.
PPs Submission: Agreed to Comply Monitoring of compliance of EC conditions will be submitted with Third party audit		Date: 10/06/2024
5	Marine/Coastal	The company/PP shall ensure that there will be no impact on mangroves plantation present in study area.
PPs Submission: Complied Not Applicable		Date: 10/06/2024
6	Risk Mitigation and Disaster Management	The company shall comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project shall be implemented.
PPs Submission: Being Complied All the Environmental Protection Measures and safeguards proposed to the Ministry are being complied. The recommendations made in the EIA/EMP in respect of environmental management, and risk mitigation measures relating to the project are completed.		Date: 10/06/2024
7	WATER QUALITY MONITORING AND PRESERVATION	Total water requirement is 1486 m3/day of which fresh water requirement is 1148 m3/day and it is proposed to be met from Chemplast Cuddalore Vinyls Limited(CCVL). The project proponent will treat and reuse the treated water within the factory and no waste or treated water shall be discharged outside the premises.

<p>PPs Submission: Complied</p> <p>Total water requirement for 41KTPA is 883 m³/day of which fresh water requirement is 708 m³/day. All the effluent and sewage waters are treated and reused within the factory and assure that no waste or treated water shall be discharged outside the premises. CSL is operating "Zero Liquid Discharge (ZLD)" system to treat and reuse the waste water generated.</p>		<p>Date: 10/06/2024</p>
8	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Comprehensive water audit to be conducted on annual basis and report to the concerned Regional Office of MoEF & CC. Outcome from the report to be implemented for conservation scheme.</p>
<p>PPs Submission: Agreed to Comply</p> <p>Comprehensive Water audit will be carried out and the report will be submitted to IRO, MoEF & CC, and Chennai. Recommendations of the Water audit will be implemented in phased manner.</p>		<p>Date: 10/06/2024</p>
9	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.</p>
<p>PPs Submission: Complied</p> <p>Storm water gutters and drains are designed in such a way, it will not get mixed with any process/waste streams and hence there is no requirement of Guard pond.</p>		<p>Date: 10/06/2024</p>
10	<p>MISCELLANEOUS</p>	<p>Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm, and solvent transfer to be done through pumps.</p>
<p>PPs Submission: Complied</p> <p>Hazardous chemicals are stored in tanks, drums, carboys, etc., Chemical storage tank farm is designed with dykes only. And all electrical equipment used in hazardous areas are Flame Proof and flame arrestors are provided. Chemicals are transferred using pumps only.</p>		<p>Date: 10/06/2024</p>
11	<p>WASTE MANAGEMENT</p>	<p>Process organic residue and spent carbon, if any, shall be sent to cement industries. ETP sludge, process inorganic & evaporation salt shall be disposed off to the TSDF. The ash from boiler shall be sold to brick manufacturers /cement industry.</p>
<p>PPs Submission: Agreed to Comply</p> <p>ETP Sludge and evaporation salt will be disposed off to TSDF. Process organic residue and spent carbon are not generated in our process. Ash from boiler is also not applicable to our plant, since boiler is not an integral part.</p>		<p>Date: 10/06/2024</p>
12	<p>AIR QUALITY MONITORING AND PRESERVATION</p>	<p>Regular VOC monitoring shall be done at vulnerable points.</p>
<p>PPs Submission: Complied</p> <p>VOC sensors for continuous monitoring are fixed at the 10 locations.</p>		<p>Date: 10/06/2024</p>
13	<p>WASTE MANAGEMENT</p>	<p>The oily sludge shall be subjected to melting pit for oil recovery and the residue shall be bio- remediated. The sludge shall be stored in HDPE lined pit with proper leachate collection system.</p>
<p>PPs Submission: Complied</p> <p>There is no generation of Oily sludge from our process or storage. Since VCM is supplied from CCVL and stored in Day Tank only.</p>		<p>Date: 10/06/2024</p>
14	<p>WATER QUALITY MONITORING AND PRESERVATION</p>	<p>Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.</p>

<p>PPs Submission: Complied Storm water gutters and drains are designed in such a way, it will not get mixed with any process/waste streams and hence there is no requirement of oil catchers / oil traps</p>		<p>Date: 10/06/2024</p>
15	WASTE MANAGEMENT	<p>The company shall undertake waste minimization measures as below: a. Metering and control of quantities of active ingredients to minimize waste. b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. c. Use of automated filling to minimize spillage. d. Use of Close Feed system into batch reactors. e. Venting equipment through vapour recovery system. f. Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.</p>
<p>PPs Submission: Complied Following waste minimization measures are implemented in the project. a. All raw material chemicals to reactor are fed through metering. b. No by -products generated from the reaction c. Automation incorporated for all additives of the process d. All reactant additives are fed to reactor as closed system and with automation e. Vent gases are passed through VCM recovery section and vent gas absorption system to recover VCM f. Reactor cleaning are done through automated high pressure devices</p>		<p>Date: 10/06/2024</p>
16	GREENBELT	<p>The green belt of 5-10 m width shall be developed in more than 40% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.</p>
<p>PPs Submission: Partially Complied Greenbelt Developed as on date is 0.174 Ha, covering 2.8% of total area. Around 180 trees are maintained as on date. Development of Greenbelt is under progress in phased manner.</p>		<p>Date: 10/06/2024</p>
17	Corporate Environmental Responsibility	<p>As per the Ministry's OM dated 30.09.2020 superseding the OM dated 01.05.2018 regarding the Corporate Environmental Responsibility, and as per the action plan proposed by the project proponent to address the socio-economic and environmental issues in the study area, the project proponent, as committed, shall provide education funds in technical training centers/ support in nearby village's schools, support in health care facilities, drinking water supply and funds for miscellaneous activities like solar street lights, battery, solar panel etc., in the nearby villages. The action plan shall to be completed within time as proposed.</p>
<p>PPs Submission: Agreed to Comply CER activities will be carried out as per Environment Impact Assessment report and our corporate policy.</p>		<p>Date: 10/06/2024</p>
18	MISCELLANEOUS	<p>The project proponent shall ensure 70% of the employment to the local people, as per the applicable law. The project proponent shall set up a skill development centre/provide skill development training to village people.</p>
<p>PPs Submission: Complied Almost 70% of the employees are local people. As part of CSR activity skill development trainings shall be provided to village peoples.</p>		<p>Date: 10/06/2024</p>
19	MISCELLANEOUS	<p>A separate Environmental Management Cell (having qualified person with Environmental Science / Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.</p>

<p>PPs Submission: Complied Environment Management cell is in place with qualified Engineer to carry out the Environmental Management and Monitoring functions at plant supported by Corporate Environment Team from Head Office. Organogram of Environment Cell is attached as Annexure. CSL established Full-fledged laboratory facilities for Environmental parameter monitoring.</p>		<p>Date: 10/06/2024</p>
20	Risk Mitigation and Disaster Management	The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Firefighting system shall be as per the norms.
<p>PPs Submission: Complied Company has provided with the following fire mitigation & control infrastructure: 1. Fire Hydrant Tank (2Nos. & Capacity 2000KL each) 2. Fire Hydrant Points - 49Nos. 3. Fire Water cum Foam monitors - 5Nos. 4. Fire escape hydrants (Risers) - 40nos. 5. Fire Extinguishers - 286Nos. (Foam/ABC/CO2) 6. Multi Sensor Fire Detectors - 201Nos. 7. Hydrogen Detectors - 4Nos. 8. Heat Detectors - 159Nos. 9. Manual Call points 66Nos. 10. PPEs relevant to fire emergency - Fire proximity suit, Trolley type SCBA apparatus and Self containing air breathing apparatus. Fire Fighting equipment Photos and list attached as annexure</p>		<p>Date: 10/06/2024</p>
21	AIR QUALITY MONITORING AND PRESERVATION	Continuous online (24x7) monitoring system for stack emissions shall be installed for measurement of flue gas discharge and the pollutants concentration, and the data to be transmitted to the CPCB and SPCB server. In case of the treated effluent to be utilized for irrigation/gardening, real time monitoring system shall be installed at the ETP outlet.
<p>PPs Submission: Complied Continuous Online Monitoring System for Stack Emission - PM and VOC monitors at Spray Dryer Stack and VOC Monitor in Vent Gas Absorption Stack are installed and real-time data connectivity established with TNPCB. Status of TNPCB Connectivity attached as Annexure. Flow meters are installed at the inlet & outlet of ETP and STP units and are being monitored on real time basis continuously.</p>		<p>Date: 10/06/2024</p>
22	Human Health Environment	PP to set up occupational health Centre for surveillance of the worker's health within and outside the plant on a regular basis. The health data shall be used in deploying the duties of the workers. All workers & employees shall be provided with required safety kits/mask for personal protection.
<p>PPs Submission: Complied Occupational Health Center with required facilities are available within the plant premises for surveillance of the workers health on a regular basis. Male Nurse is available on 24X7 and a Doctor is available on General Shift Hours. Photos of OHC is attached as Annexure. All workers and employees are provided with basic Personal Protective Equipment and also job specific Personal Protective Equipment.</p>		<p>Date: 10/06/2024</p>
General Conditions		
Sr.No.	Condition Type	Condition Details
1	MISCELLANEOUS	No further expansion or modifications in the plant, other than mentioned in the EIA Notification, 2006 and its amendments, shall be carried out without prior approval of the Ministry of Environment, Forest and Climate Change/SEIAA, as applicable. 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/SEIAA, as applicable, to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.

PPs Submission: Agreed to Comply Agree to Comply.		Date: 10/06/2024
2	ENERGY PRESERVATION MEASURES	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
PPs Submission: Complied LED lighting system is installed in the Plant and all motors used in our plant are energy efficient motors with IE3 compliance		Date: 10/06/2024
3	Noise Monitoring & Prevention	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed under the Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
PPs Submission: Complied 1. Provided acoustic hood enclosures and silencers for Emergency DG set source noise. 2. Periodic Ambient noise monitoring to comply with prescribed standards		Date: 10/06/2024
4	Corporate Environmental Responsibility	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. CER activities shall be undertaken by involving local villages and administration and shall be implemented. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
PPs Submission: Partially Complied CER activities will be carried out as per Environment Impact Assessment report and our corporate policy. CER activities for Construction phase are complied and operation phase agreed to comply		Date: 10/06/2024
5	MISCELLANEOUS	The company shall earmark sufficient funds towards capital cost and recurring cost per annum to implement the conditions stipulated by the Ministry of Environment, Forest and Climate Change as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so earmarked for environment management/ pollution control measures shall not be diverted for any other purpose.
PPs Submission: Being Complied Separate budget for the environmental protection measures (Capital and Recurring cost) is earmarked and are not diverted for any other purpose. All the expenses are recorded in advanced accounting system (SAP) of the company. Capital and R&M cost utilized for Environment safe guard and protection measures during the compliance period (Sept 23 to March 24) is Rs. 56,90,200/- 1. CTO Fees - 50,40,200 2. ETP / STP-ZLD Operation - 4,00,000 3. TNPCB - Care Air Centre Connectivity - 2,50,000		Date: 10/06/2024
6	Statutory compliance	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zilla Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
PPs Submission: Complied Copy of Environment Clearance sent to the semmankuppam village Panchayat vides our Ref. Letter No. CSL/Safety/2023/02 dated:25.02.2023		Date: 10/06/2024

7	Statutory compliance	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data (both in hard copies as well as by e-mail) to the respective Regional Office of MoEF&CC, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.
PPs Submission: Complied EC Compliance status report for the compliance period April'23 to September'23 submitted to MoEF & CC , CPCB and TNPCB vide our Letter Ref No. CSL/CUD/PASTE/ENV/2023/Q3/002 dated 27.11.2023. Copy of Environmental Clearance and Six monthly Compliance Status reports posted in our company website. URL: https://www.chemplastsanmar.com/pvc-ec-cuddalore.php		Date: 10/06/2024
8	Statutory compliance	The environmental statement for each financial year ending 31st March in Form-V as is mandated shall be submitted to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental clearance conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.
PPs Submission: Agreed to Comply Environmental Statement in Form-V for each financial year ending 31st March will be submitted to concerned State Pollution Control Board and also will be displayed in Company website during operation phase.		Date: 10/06/2024
9	Statutory compliance	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/Committee and may also be seen at Website of the Ministry and at https://parivesh.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 concerned Regional Office of the Ministry.
PPs Submission: Complied Advertisement copy of Environmental Clearance published in Newspaper (Tamil - Thinamani & English - The New Indian Express Dt.: 23.11.2021) Copy of the same is submitted to IRO, MoEF & CC, vide our Letter dated: 30.07.2022		Date: 10/06/2024
10	Statutory compliance	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.
PPs Submission: Complied Date of Start of Project: 01/06/2022 Date of commencement of Production: 02/03/2024		Date: 10/06/2024
11	Statutory compliance	This Environmental clearance is granted subject to final outcome of Hon'ble Supreme Court of India, Hon'ble High Court, Hon'ble NGT and any other Court of Law, if any, as may be applicable to this project.
PPs Submission: Agreed to Comply Noted		Date: 10/06/2024

Visit Remarks

Last Site Visit Report Date:

N/A

Additional Remarks:

All Pollution Control Measure are being complied as per the guidance. Project completed and production trial phase on going.