


EC Conditions Six Monthly Compliance Report

(by Project Proponent)



Proposal No : IA/TN/IND/21367/1910

1. Name of the Entity / Corporate Office :

File No. :	J-11011/450/2008-IA.II(I)	Proposal Name :	Expansion and Conversation of mercury based caustic soda plant into membrane technology
Date Of EC. :	03 Sep 2008	EC Letter :	
Name of the Entity / Corporate Office :	CHEMPLAST SANMAR LIMITED	Email Address :	ks17@sanmargroup.com
Address :	Sethu Rastha, Vedaranyam	Mobile No :	9442471730

2. Proponent Details :

Proponent Name :	Palaniappan	Designation :	Vice President
Telephone No :	4298-230381	Mobile No :	+91 9842833177
Fax No :	4298-	Email Address :	vpp1@sanmargroup.com
Website :		Pin Code :	636403
State :	Tamil Nadu	District :	Salem
Village/Town :			

3. Compliance Letter/Report (Proponent):

Compliance Period :	2022 / 01 Dec (01 April - 30 Sep)	Compliance Submission Date :	26 Nov 2022 16:24:32:550
Remarks :	Expansion and Conversation of mercury based caustic soda plant into membrane technology Compliance status report 2022 (01 April -30 Sep)		
Site Visit Report :	N/A	Site Visit Date :	N/A
ATR Report :	N/A	ATR Date :	N/A
Additional Attachment (If Any) :	N/A	Additional Remarks (If Any) :	

4. Summary Status of Compliance :


Total Condition :	29		
Complied :	13	Being Complied :	16
Not Complied :	0	Partially Complied :	0
Agreed to Comply :	0		



5. Details of Production and Project Area :

Date of Commencement of Project/Activity :	08 Mar 2007	Project Area as Per EC Granted (In Case of Mine Lease):	42.1	
Actual Project Area(In Case of Mine Lease):	42.1			
PRODUCTION CAPACITY :				
S.No	Name of the Product	Units	As per EC granted	Production during last financial year
1	Caustic Soda	Tons per Annum (TPA)	77970	46750
2	Chlorine	Tons per Annum (TPA)	68080	41612.175
3	Hydro Chloric Acid (30%)	Tons per Annum (TPA)	50886	29281.031
4	Hydrogen	Tons per Annum (TPA)	1920	1168.75
5	Bleach Liquor	Tons per Annum (TPA)	32300	5798.562
6	Dil. Sulphuric acid	Tons per Annum (TPA)	7635	4341.802

6. Specific Conditions (Proponent) :


S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	The Company shall install Chlorine gas detectors to detect leakage of Chlorine at liquid Chlorine storage tanks, Sodium hypo plant, HCl synthesis unit and Electrolysis area. The company shall install on-line analyser in HCl plant and hypo stack with recording facility	Complied	Chlorine monitors (12 Nos) were installed Plant and periphery. All 12 monitors are being recorded (which includes the monitors at HCl plant and at hypo stack) and it is connected with CAC, TNPCB	N/A	
2	The vent gases from Sodium hydrochloride plant and HCL acid plant shall be controlled at source by effective absorption system so that Chlorine concentration in the vent gases shall not exceed 5ppm. The vent gases shall be discharged from the stacks of adequate height for effective dispersion. Additional Chlorine sensors shall be installed to monitor Cl ₂ .	Being Complied	The vent gas from chlorine liquefaction system is absorbed with hydrated lime and converts into hypochlorite. Cl ₂ sensor was already installed and monitoring is being done.	N/A	
3	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000 and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes and a copy shall be submitted to the Ministry's Regional Office	Complied	Authorization obtained for collection, storage, transportation and disposal of Hazardous wastes from SPCB vide authorization No. 20HFC30743102 dated 22.10.2020 which is valid up to 31.03.2025.	N/A	
4	Solid waste generation shall not be more than 2078 TPA	Being Complied	Samples were sent to Ultratech	N/A	


	after expansion which contains CaCO ₃ , Mg(OH) ₂ and Barium Sulphate. The company should explore the possibilities of utilizing the solid waste by the cement plant. The company shall submit an action plan to the Ministry's Regional Office at Bangalore		& India cements and they declared that it is not suitable for co-processing. We are exploring the possibility of making bricks. At present, is being disposed at TSDF		
5	The emissions of Cl ₂ , SO ₂ , NO _x and particulate matter from various units shall conform to the standards prescribed in Environment (Protection) Rules 1986 and 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	Being Complied	Emission levels at the stacks are being monitored external & TNPCB Labs. These results are submitted every month to TNPCB. Consolidated statement of Last 6 months results attached		
6	Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored for all the relevant parameters. Emissions shall conform to the limits imposed by SPCB and reports shall be submitted to the Ministry's Regional Office at Bangalore/CPCB/SPCB.	Complied	Fugitive emission of Chlorine, HCl and VOC are measured on continuous basis and are connected with CAC, TNPCB. Emissions are within limit. Records are available for verification.	N/A	
7	The waste water discharge from the caustic plant shall be zero	Being Complied	Our Plant has achieved "Zero-Discharge" status since Sep-2009. Hence there is no discharge of effluent from the whole plant	N/A	
8	The company shall make the impervious and covered on site storage facility for the various solid and hazardous wastes generated from the plant. The storage facility shall be provided with garland drain with arrangement of collection pit for leachate/seepage/spillage etc	Complied	Company established an impervious and covered area for storing of Hazardous waste with proper arrangement	N/A	
9	Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act	Being Complied	Occupational Health surveillance of the workers is being done on regular basis as per Sec. 62N of factory Act and the records are maintained at our Occupational	N/A	


			Health Centre (OHC).		
10	During transfer of materials spillage of chemicals shall be avoided and garland drains be constructed to avoid mixing of accidental spillages with domestic waste and storm drains	Being Complied	The spillage of chemicals will not reach to the storm drains in case of accident spillages, during the chemical handling as the dyke wall provisions available to collect the spillages separately.	N/A	
11	The project authorities shall earmark adequate fund to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose	Being Complied	Project cost includes with environmental improvement. Additional funds requirement towards environmental improvements measures is being allocated from time to time. Latest ones are attached		
12	The company shall make arrangement for protection from possible fire hazards during manufacturing process in material handling	Complied	Fire protection facilities like hydrant ring main system, deluge system, fire extinguishers were installed as per the severity of associated fire hazards of the process/material handling.	N/A	
13	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the process emissions/fumes from various units in the complex. The scrubbed water shall be sent to ETP for further treatment	Complied	Hydrated lime scrubber & two-stage scrubber are available with appropriate stack height (12.4 M & 23.5 M) to control chlorine and HCL emission. The product from these scrubbers were sold.	N/A	
14	The company shall develop the green belt in 33% area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB	Complied	Company is currently having green belt in 41.5 Acres area (around 40% of plant area) to mitigate the effect of fugitive emission and noise.	N/A	
15	Regular monitoring of ground water by installing at least 4 peizometric wells around the plant area shall be periodically carried out and reports submitted to Ministry's	Being Complied	We have installed 12 Piezometric wells & 2 bore wells and the analysis of these test are being monitored on		

Regional Office at Bangalore, CPCB and SPCB.	monthly basis and submitted to the board.
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7. General Conditions (Proponent) :

S.No	Condition	Self Declaration	Remarks / Reason	Supporting Documents	Observation of IRO
1	The gaseous emissions (SO ₂ , NO _x , HCl, CO, VOC and HC) and particulate matter along with RSPM levels from various process 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 respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency	Being Complied	Stacks emission & AAQ are monitored by the third party & TNPCB labs. Results are in compliance with the stipulated standard and it is communicated to TNPCB on monthly basis. Please refer attachment		
2	The project authorities shall strictly adhere to the stipulations of the SPCB/state government or any statutory body	Being Complied	Complied with stipulations of TNPCB imposed from time to time.	N/A	
3	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report	Complied	Complied with all the environmental protection measures.	N/A	
4	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated	Being Complied	Locations of AAQ monitoring stations were established in consultation with TNPCB, which is based on the Guassian Air modelling	N/A	
5	Implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company	Being Complied	It is posted in the website.	N/A	
6	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	Complied	Noted. We will assure that no further expansion or modification in the plant will not be carried out without getting prior approval from MoEF.	N/A	

	imposed and to add additional environmental protection measures required, if any				
7	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions	Complied	Environmental cell already established with full-fledged lab facilities for monitoring all pollution control parameters. Company is certified for ISO-14001-& ISO 45001	N/A	
8	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 an	Complied	Advertisement on environmental clearance is already made in the daily newspapers. Copies of the same have already been submitted to Regional Office of the Ministry.	N/A	
9	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system 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	Complied	Emission norms are complied in all time and no deviation is observed. In future, In case of failure in the operation, operations will be put off until the desired efficiency of the same is achieved.	N/A	
10	The company shall undertake following Waste Minimization measures: Metering and control of quantities of active ingredients to minimize waste Reuse of by-products from the process as raw materials or as raw material substitutes in other processes or as raw material substitutes in other processes Use precise equipments for metering the pH Use of automated filling to minimize spillage Use of "Closed Feed" system into batch reactors Venting equipment through vapour recovery system Use of hig	Being Complied	Refer Attachment		
11	Levels of HC and VOC at various probable locations in the ambient air will be monitored. Regular monitoring of HC and VOC may be carried out in the ambient air in and around the plant	Being Complied	AAQ is monitored on monthly basis. VOC level in the ambient air is monitored on "real time" basis and the data is linked to CARE	N/A	

			AIR centre of Tamilnadu Pollution Control Board, Chennai.		
12	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 Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dbA (day time) and 70 dbA (night time).	Being Complied	Noise level monitored at 82 locations on monthly basis. Engg control measures on noise level in the plant equipments is adopted wherever possible. Noise levels are within the stipulated standard.	N/A	
13	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval	Being Complied	CSR activities are carried as per CSR policy. Refer supporting document		
14	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	Complied	The date of start of the project is 03.08.2007. Financial Closure of the project is 14th December 2006	N/A	
<input checked="" type="checkbox"/> I ' CHEMPLAST SANMAR LIMITED ' hereby give undertaking that the specific / general condition is entered by me is correct.					

E-Sign
CHEMPLAST SANMAR LIMITED
Date : 26 Nov 2022 16:24:32:550

****Note : N/A - Not Available**

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