सत्यमेव जयते

File No: IA-J-11011/119/2022-IA-II(I)
Government of India
Ministry of Environment, Forest and Climate Change
IA Division
****

Date **24/05/2024**

To,

Krishna Kumar Rangachari
CHEMPLAST SANMAR LIMITED
9 Cathedraql Road Chennai, TAMIL NADU - 600086
gss1@sanmargroup.com

Subject: **Proposed Project for Custom Manufactured Chemicals Division (CMCD) of Chemplast Sanmar Limited at Village Melavanjore, T. R. Pattinam, Karaikal, Puducherry UT by M/s. Chemplast Sanmar Limited - Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 -regarding.**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/PY/IND3/432721/2023 dated 11/09/2023 for grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 and as amended thereof.

2. The particulars of the proposal are as below :

(i) EC Identification No.	EC23A2002PY5108221N
(ii) File No.	IA-J-11011/119/2022-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(b) Pesticides industry and pesticide specific intermediates (excluding formulations),5(f) Synthetic organic chemicals industry ,5(b) Pesticides industry and pesticide specific intermediates (excluding formulations)
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	Environment Clearance for Proposed Project for Custom Manufactured Chemicals Division (CMCD) of Chemplast Sanmar Limited at Village Melavanjore, T. R. Pattinam, Karaikal, Puducherry UT by M/s. Chemplast Sanmar Limited
(viii) Name of Company/Organization	CHEMPLAST SANMAR LIMITED

(ix) Location of Project (District, State)	KARAIKAL, PUDUCHERRY
(x) Issuing Authority	MoEF&CC
(xi) Applicability of General Conditions as per EIA Notification, 2006	No

3. The Ministry of Environment, Forest and Climate Change has examined the proposal seeking environmental clearance for the proposed Project for Custom Manufactured Chemicals Division (CMCD) of Chemplast Sanmar Limited at Village Melavanjore, T. R. Pattinam, Karaikal, Puducherry UT by M/s. Chemplast Sanmar Limited.

4. The project/activity is covered under Category 'A' of Item 5(b) Pesticides industry and pesticide specific intermediates (excluding formulations)), 5(f) Synthetic organic chemicals of Schedule of EIA Notification, 2006. Therefore, proposal was appraised by RAC (Industry -3).

5. The Standard ToR was issued by the Ministry vide letter No IA-J-11011/119/2022-IA-II(I) dated 7.12.2022. The PP applied for Environment Clearance in the Common Application Form and submitted EIA/EMP Report and other documents. The PP in the Form reported that it is a **Fresh EC case.** The proposal was placed in the EAC meetings held on 30th -31st December, 2023 and 13th -14th March, 2024, wherein the PP along with accredited Consultant, M/s. Kadam Environmental Consultants (NABET Accreditation Number NABET/EIA/2326/RA 0303 valid till 19/03/2026) made a detailed presentation on the salient features of the project.

6. The PP reported that the total land area is 31,485 m^2 for the proposed project and no R& R is involved in the Project. The details of products and capacity are as follows:

S. No.	Product Detail		CAS No.	Existing Quantity	Proposed Quantity	Total Quantity	Uses
1	Aromatic/ Aliphatic substituted Nitriles, Cyanohydrins, Amines and its derivatives	4- (2-Aminoethyl)-2-methoxyphenol (A.E.Phenol)	554-52-9	--	5000 MTPA	5000 MTPA	In general intermediates for Agro & other industries
		5-Ethyl-5-Phenyl Hydantoin	65567-32-0				
		CO_X	83841-00-3				
		CP (4-t-butylphenylacetonitrile)	3288-99-1				
2	Halogenation of Aromatic/Aliphatic aniline	1-Bromo-3,5-dichlorobenzene. (DCBB)	19752-55-7				
		T4C	5107-67-5				
		4-Chloro-2-Nitro benzoic acid	6280-88-2				
		2-Chloro-5-chloromethyl-1,3-thiazole (CCMT)	105827-91-6				
		Tetrachloro butyric Acid (TCBA)	4387-77-3				
		1-Chloro-3-Nitrobenzene	121-73-3				
		2,4,6- Trichloro Aniline	634-93-5				
		Pivaloyl Chloride	3282-30-2				
		5-Chloro Valeroyl Chloride	1575-61-7				
		4-FLUORO PHENYL ACETIC ACID	405-50-5				
		4-BROMO FLUOROBENZENE	460-00-4				
		3-Fluorotoluene	352-70-5				
		4-Fluorotoluene	352-32-9				
3	Aromatic compounds Alkylations/ Acylations and its derivatives	Ionophor	133338-85-9				
		4-Bromo-2-Fluoro hydroxy biphenyl (BFB)	116831-27-7				
		Para methyl phenyl chloride (PMPC)	4209-24-9				
		Sodium 4-(2,4-dichlor M-Toluoyl)-1,3-di methyl -5-pyrazolate (MY710Na)	172343-40-7				
		4-chloro-butyl veratrate	69788-75-6				
		Ortho Nitro Anisole	91-23-6				
		Para Nitro Anisole	100-17-4				

		O-Chloro P-Nitro Toluene	121-86-8				
		3-Amino- 4- Chloro Benzoic Acid Methyl Ester	40872-87-5				
		3-Amino 4-Methyl Benzoic Acid Isopropyl Ester	21447-47-2				
		5-Amino-2-Methyl Benzene Sulphonic Acid Phenyl Ester	1089339-15-0				
		(3-Aminophenyl) benzenesulfonate	26408-93-5				
		4 -Amino Benzoic Acid Methyl Ester	619-45-4				
		2-FLUOROANISOLE	321-21-8				
		4-FLUOROANISOLE	459-60-9				
4	Sulphonamides, Amides, Imides & Amines	2-Trifluoromethyl benzene sulfonamide (TBSA)	1869-24-5				
		(4-methoxyphenyl)-N-methylpropan-2-amine [Mebamine]	22331-70-0				
		TR1400	1078-19-9				
		2-Phenoxyethylamine	1758-46-9				
		TR1600	94133-84-3				
		Methyl carbazate	6294-89-9				
		Tetralone imine	79560-20-6				
		4-[[2-(4-chloro-2,6-dimethylphenyl)acetyl]methylamino]-1-methoxy-N-phenylpiperidin-4-carboxamide [Diamide]	1644459-63-1				
		Spiropidion (SPID)	1229023-00-0				
		Sulfonamide	227605-94-9				
		4-Amino Benzamide	2835-68-9				
		P-Toluidine	106-49-0				
5	Alkaloids	5-CHLORO-8-HYDROXY-QUINOLINE (CHQ)	130-16-5				
		Phenylguanidine carbonate (PGC)	405095-33-2				
		Fe (III) Acetyl acetanoate	14024-18-1				
		m-Anisidine	536-90-3				
6	Inorganic Metal Complexes (Electronic chemicals)	Anode [Tetra Sodium Manganese (II) hexacyanide monohydrate]	Not reported				
		Cathode [Tetra Sodium Ferrous(II) hexacyanide decahydrate]	Not reported				

7. The PP reported that there is no violation case as per the Notification No. S.O. 804(E) dated 14.03.2017 and no direction is issued under E (P) Act/Air Act/Water Act.

8. PP informed that the proposed project site does not fall in CRZ line and it is 0.609 km away from CRZ III line. PP has submitted CRZ demarcation map in 1:4000 scale prepared by IRS Anna University.

9. The PP reported that there are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. lies within 10 km distance from the project site. Following water bodies are located in study area

S. No.	Sensitive Ecological Features	Name of feature / Location	Distance (~km)	Direction	Reason of Significance

1	Water courses / water bodies	Bay of Bengal	1.89	E	Near to site within study area
		Puravadaiyanar River	0.4	N	
		Arasalar River	7.28	N	
		Thirumalai Rajanar River	4.0	N	

10. There are 3 numbers of the Schedule-1 Species within 10 km distance from the project site. Names of Schedule-1 Species are Indian Monitor Lizard, Olive ridley turtle, Eurasian Spoonbill for which conservation plan is prepared and submitted to Chief Wildlife Warden.

11. The PP reported that the **Ambient air quality monitoring** was carried out at eight (8) locations during 1st July to 30th September, 2023 and the baseline data indicates the ranges of average concentrations as: PM_{10} (minimum 72 µg/m^3 to maximum 78 µg/m^3), $PM_{2.5}$ (minimum 17 µg/m^3 to maximum 21 µg/m^3), SO_2 (minimum 8.7 µg/m^3 to maximum 10.1 µg/m^3), NO_x (minimum 13.6 µg/m^3 to maximum 19.4 µg/m^3), CO (minimum 0.75 µg/m^3 to maximum 0.96 µg/m^3) and HC (minimum 913 µg/m^3 to maximum 1051 µg/m^3). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 8.503 µg/m^3, 0.122 µg/m^3 and 7.473 µg/m^3 with respect to PM_{10}, SO_2 and NO_X. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

12. The PP reported that the total water requirement for proposed project will be 2409 KLD, of which fresh water requirement from the existing desalination plant will be 1279 KLD. 1115 KLD waste water will be generated from Industrial activity and it will be treated in the proposed ETP (Capacity: 2000 KLD) followed by recycling RO system and MEE with ATFD to achieve "Zero Liquid Discharge". 25 KLD Sewage will be generated and treated in the proposed STP (Capacity: 30 KLD). Treated Sewage will be used for horticulture purpose.

13. Power requirement for proposed project will be 500 kVA during construction phase and 5000 kVA during operation phase and will be met from Puducherry Electricity Department (PED). 2 DG sets of 2000 kVA will be used as standby during power failure. Stack (height: 30 m) will be provided as per CPCB norms to the proposed DG sets.

14. LSHS fired 40 TPH boiler and HSD fired 2,00,000 Kcal/hr Thermic Fluid Heater will be installed in the proposed project. The stack of 40 m height will be installed for controlling the particulate emissions within the statutory limit of 75 mg/Nm^3 for the proposed boilers.

15. Details of Process Emissions Generation and its Management:

Proposed Flue Gas Stack						
Sr. No.	**Source of Emission**	**No. of Stacks**	**Stack Height (m)**	**Stack Top Diameter (m)**	**Pollutant Expected**	**Detail of APCM**
1	DG Set (2000 KvA)	1	30	0.5	PM, SO_2, NO_X	Adequate Stack Height
2	DG Set (2000 KvA)	1	30	0.5	PM, SO_2, NO_X	Adequate Stack Height
3	Boiler (40 TPH)	1	40	0.5	PM, SO_2, NO_X	Adequate Stack Height
4	Thermic Fluid Heater 2,00,000 Kcal/hr	1	10	0.5	PM, SO_2, NO_X	Adequate Stack Height

S. No.	Stack number	Nos. of Stacks	Stack Height in m	Stack Top Diameter, m	Pollutants expected	Air pollution control measures
1	Scrubber-1	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
2	Scrubber-2	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
3	Scrubber-3	1	20	1	SPM, HCl, SOx,	Two stage wet alkali scrubber

					NOx	with stack
4	Scrubber-4	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
5	Scrubber-5	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
6	Scrubber-6	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
7	Scrubber-7	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
8	Scrubber-8	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
9	Scrubber-9	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
10	Scrubber-10	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
11	Scrubber-11	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
12	Scrubber-12	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
13	Scrubber-13	1	20	1	SPM, HCl, SOx, NOx	Two stage wet alkali scrubber with stack
14	Scrubber-14	1	20	1	HCN, SOx, NOx, SPM	Two stage scrubber with Sodium Hypo Chlorite and Caustic soda with stack
15	Scrubber-15	1	20	1	NH3, SOx, NOx, SPM	Wet scrubber with stack

16. Details of Solid Waste / Hazardous Waste Generation and its Management:

A	**Solid Waste**				
Sr. No.	**Type of Waste**	**Source**	**Waste Category**	**Quantity**	**Disposal Method**
	Municipal Solid Waste	Canteen, Office blocks	-	Construction phase = 160 kg/day (max.) Operation phase = 40 kg/day (max.)	Shall be segregated into wet and dry waste as per the Solid Waste Management Rules, 2016 as amended from time to time. Wet waste shall be converted into compost at project site and compost shall be used as manure for the greenbelt development.
	Biomedical Wastes	On-site Occupational Health Centre	-	As & when generated	Shall be handled as per the Bio-Medical Waste Management Rules, 2016 as amended from time to time
	Used Lead Acid Batteries	Company owned vehicles, other devices (such as UPS) being operated within the site	-	100% buyback scheme implemented at site. No waste generated due to this	Shall be handled as per the Batteries (Management & Handling) Rules, 2010 as amended from time to time.
	Electronic wastes	Entire Site	-	As & when generated	Shall be handled as per the E-Waste (Management) Rules, 2016 as amended from time to time
	Construction and Demolition (C&D) Wastes	Entire Site	-	As & when generated	Shall be handled as per the Construction and Demolition Waste Management Rules, 2016 as amended from time to time
	Plastic wastes	Entire Site (Office blocks,	-	As & when	Shall be handled as per the Plastic waste

		Canteen etc.		generated	(Management & Handling) Rules, 2016 as amended
	Non-Hazardous metallic scrap, wooden & paper scrap	Entire Site	-	As & when generated	Sold to scrap dealers duly approved by the company
	DM plant spent resin	Demineralization (DM) plan	-	As & when generated	Sent to captive TSDF for disposal
	STP Sludge	Sewage treatment plant (of 30 KLD capacity)	-	2 MT	Will be used as manure for gardening
B.					
Sr. No.	**Type of Waste**	**Source**	**Waste Category**	**Quantity**	**Disposal Method**
	Contaminated Solvent	Production and/or industrial use of solvents.	20.1	7500 MT	Authorized recycler
	Distillation Residue	Production and/or industrial use of solvents	20.3	1000 MT	Authorized common hazardous waste incineration facility
	Used or Spent Oil	Industrial operation using mineral or synthetic oils for lubrication of hydraulic system or other application	5.1	50 MT	Authorized recycler re-processors.
	Chemical Sludge from Waste water treatment	Purification of waste water in ETP.	35.3	12000 MT	Authorized common hazardous waste for land filling or to cement plants for co-processing.
	Empty barrels contaminated with hazardous waste	Handling of hazardous chemicals and waste	33.1	50MT	Authorized recycler.
	Spent Catalyst / Carbon	Production	28.2	10MT	Authorized recycler.

17. The Budget earmarked towards the Environment Management Plan (EMP) is 1105.5 lakh (capital) and the Recurring Cost (operation and maintenance) will be about 650.0 lakh per annum. Industry proposes to allocate Rs 3.0 crore towards CER.

18. Industry will develop greenbelt in an area of 34% i.e., 10,705 m^2 out of total 31,485 m^2 area of the project.

19. The PP reported that PP reported that the public hearing is exempted as per the Para 7.III. Stage (3) (i) (b) of the EIA Notification, 2006 as unit is located in notified industrial area which is notified vide letter No. TRP/ CP/E1 /28/89 dated: 2.3.1990

20. The PP proposed to set up an Environment Management Cell (EMC) by engaging Functional Compliance Officers - Strategic Business Unit Compliance Officers- Unit Head- Business head – whole time director EHS – Board of director for the functioning of EMC.

21. The PP submitted the Disaster Management Plan and On-site and Off-site Emergency Plans in the EIA report.

22. The estimated project cost is Rs 600.0 crores. Total Employment will be 20 persons as direct & 450-500 persons indirect during construction phase and 100-120 persons as direct & 175-200 persons indirect during operation phase.

23. PP vide letter dated 27.02.2024 submitted point wise ADS reply.

24. Deliberations by the EAC:

During deliberations, EAC discussed the following issues:

· PP submitted the dimensions of rain water collection tank.

· PP submitted the undertaking regarding the greenbelt that PP propose to develop greenbelt in 10,705m^2 which is 34% of the total project area of 31,485 m^2. Around 2700 trees will be planted in 2 years at the capital cost of Rs. 9.45 Lakhs.

· PP submitted the CER details

Sl. No.	**Activity**	**Village/Town Name**	**Budget Amount (Rs. in Crs.)**
1.	Rooftop rain water harvesting with percolation well in Govt Buildings like Govt School, Anganwadi and Panchayat Office etc. Cost of one RWH tank of 15 KL capacity, filtration unit and structure of Recharge Borewell- Rs. 5 Lakh Total no.of units planned to be installed in the villages – 12 nos. Thus, Total cost =Rs. 5 Lakh * 12 nos.= 60 Lakh Timeline for completion: Sep-27	Thirumalairayanpattinam (CT), Panangudi, Vadakkuvanjore	0.6
2.	Rooftop solar panel Installation at Govt Buildings like Govt. School, Anganwadi and Panchayat Office etc. Total 120 Kw of solar panels are planned to be installed in the villages Per KW cost of solar panel installation of Rs. 75,000/- Thus, total Cost=Rs. 75,000/- x 120 kw = Rs. 90 Lakh Timeline for completion: Sep-28	Thirumalairayanpattinam (CT), Panangudi, Vadakkuvanjore	0.9
3.	Providing infrastructure for “Resource recovery from waste material/compactor” to nearby town panchayat Rs. 30 lakh per village, total 90 lakh for three villages for building/structures and associated equipment like compactor etc. to segregate useful resources from municipal waste Timeline for completion: Sep-28	Thirumalairayanpattinam (CT), Panangudi, Vadakkuvanjore	0.9
4.	Community Tree Plantation at Govt School, Anganwadi and Public Places 4000 sampling plantation are planned in the open areas of nearby villages as community Greenbelt development initiative Total cost= 4000 trees x Rs. 500 per sapling Timeline for completion: Sep-27	Thirumalairayanpattinam (CT), Panangudi, Vadakkuvanjore	0.2
5.	Solar street lights for self-sustaining Green technology 250 solar street lights of 100 Watt are planned to be provided in the nearby villages and road routes. Thus, total cost = 250 nos. x Rs. 15,000/- = Rs. 37,50,000/- + transportation cost = Rs. 40 Lakh Timeline for completion: Sep-28	Panangudi, Vadakkuvanjore	0.4
Total CER Budget			3.0

· PP submitted the details of traffic study.

· PP submitted the emergency scrubbing for chlorine transportation through pipeline.

Chlorine is one of the raw materials required for the proposed Custom Manufactured Chemicals project of Chemplast Sanmar Limited.
Chlorine required for the above project is supplied through pipeline.
The following are the measures that will be incorporated in Chlorine transfer:
o Chlorine transportation in gaseous pipeline
o Pipeline thickness will be monitored once in 6 months and hydro testing in once in a year.
o Chlorine monitors will be installed in the pipeline route.
o Pipeline will be connected to two stage scrubbing system with automated cut off valves that will be operated upon chlorine sensing value. Brief drawing attached.
· PP submitted the details of retention period in biological system of ETP.

· PP submitted the details of hazardous waste generated in ETP and ATFD:

Sr. No.	Type of Waste	Source	Waste Category	Quantity	Disposal Method
	Chemical Sludge from Waste water treatment (ETP sludge)	Purification of waste water in ETP.	35.3	2000 MT	Authorized common hazardous waste for land filling at TSDF or to cement plants for co-processing. The Committee suggested that PP shall check the purity and possibility of co-processing of ETP sludge otherwise the same shall be disposed of at TSDF.
	Chemical Sludge from Waste water treatment (ATFD salt – low chloride salt)	Purification of waste water in ETP/MEE	35.3	5000 MT	Authorized common hazardous waste for co-processing in cement industry/fly ash brick manufacturing etc. The Committee suggested that PP shall check the purity and possibility of co-processing of ATFD salt – low chloride salt otherwise the same shall be disposed of at TSDF. The committee also suggested that ATFD salt shall not be used for co-processing and fly ash brick manufacturing.
	Chemical Sludge from Waste water treatment (ATFD salt)	Purification of waste water in ETP/MEE	35.3	5000 MT	Authorized common hazardous waste for land filling at TSDF.

The committee was satisfied with the response provided by PP on above information. Further, Committee desired to submit the above information in writing. Accordingly, PP has submitted the desired information and EAC found the information/commitments satisfactory.

The EAC deliberated the Onsite and Offsite Emergency plans and also the various mitigation measures proposed during the implementation of the project and advised the PP to implement the provisions of the Rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, as amended from time to time.
The EAC deliberated on the proposal with due diligence in the process as notified under the provisions of the EIA Notification, 2006, as amended from time to time and accordingly made the recommendations to the proposal. The Experts Members of the EAC found the proposal in order and recommended for the grant of environmental clearance.

The EAC is of the view that its recommendation and grant of environmental clearance by the regulatory authority to the project/activity is strictly under the provisions of the EIA Notification 2006 and its subsequent amendments. It does not tantamount/construe to approvals/consent/permissions etc. required to be obtained or standards/conditions to be followed under any other Acts/ Rules/ Subordinate legislations, etc., as may be applicable to the project. The PP shall obtain necessary permission as mandated under the Water (Prevention and Control of Pollution) Act, 1974 and the Air (Prevention and Control of Pollution) Act, 1981, as applicable from time to time, from the State Pollution Control Board, prior to construction & operation of the project.

25. Based on the proposal submitted by the project proponent and recommendations made by EAC in its 77th EAC meeting on 14th March, 2024, the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project "**Proposed Project for Custom Manufactured Chemicals Division (CMCD) of Chemplast Sanmar Limited at Village Melavanjore, T. R. Pattinam, Karaikal, Puducherry UT by M/s. Chemplast Sanmar Limited"** under the provisions of the EIA Notification, 2006, and subsequent amendments therein, subject to specific terms and conditions as mentioned in Annexure -1 and Standard EC Conditions.

26. The project proponent shall prominently advertise it at least in two local newspapers of the District or State, of which one shall be in the vernacular language within seven days indicating that the project has been accorded environment clearance and the details of MoEF&CC/SEIAA website where it is displayed.

27. The copies of the environmental clearance shall be submitted by the project proponents to the Heads of local bodies, Panchayats and Municipal Bodies in addition to the relevant offices of the Government who in turn has to display the same for 30 days from the date of receipt.

28. The project proponent shall have a well laid down environmental policy duly approved by the Board of Directors (in case of Company) or competent authority, duly prescribing standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest / wildlife norms / conditions.

29. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the project proponent (during construction phase) and authorized entity mandated with compliance of conditions (during operational phase) shall be prepared. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other purpose. Six monthly progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six-Monthly Compliance Report.

30. Concealing factual data or submission of false/fabricated data may result in revocation of this environmental clearance and attract action under the provisions of Environment (Protection) Act, 1986.

31. The Regional Office of this Ministry shall monitor compliance of the stipulated conditions. The project authorities should extend full cooperation to the officer (s) of the Regional Office by furnishing the requisite data / information/monitoring reports.

32. Any appeal against this EC shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.

33. This issues with the approval of the Competent Authority

Copy To

1. The Deputy Director General of Forests (C), Ministry of Environment, Forest and Climate Change Integrated Regional Office, Ist and IInd Floor, Handloom Export Promotion Council, 34, Cathedral Garden Road, Nungambakkam, Chennai – 34.

2. The Secretary, Department of Science, Technology & Environment, Govt. of Puducherry, III Floor, PHB Building, Anna Nagar (Near Indira Gandhi Statue), Puducherry - 605005.

3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, East Arjun Nagar, Delhi – 32.

4. The Member Secretary, Puducherry Pollution Control Committee (PPCC), 3rd Floor, Housing Board Complex, Anna Nagar, Puducherry – 605 005.

5. The Member Secretary, Central Ground Water Authority, Jamnagar House, 18/11, Man Singh Road Area, New Delhi, Delhi 110001.

6. The District Collector, Duplex St, Karaikal, Puducherry 609602.

Annexure 1

Specific EC Conditions for (Synthetic Organic Chemicals Industry)

1. Specific Conditions

S. No	EC Conditions
1.1	Stack height of 40 m shall be provided to LSHS fired boiler 40 TPH and stack height of 10 m shall be provided to HSD fired TFH 2,00,000 Kcal/hr as per CPCB norms. Position the DG set so that impact on receptor is minimal. Stack of adequate height shall be provided to DG set of 2000 KVA as per CPCB guidelines.
1.2	Two stage water and alkali Scrubbers system shall be provided to control process emissions viz., HCl and SO_2. Two stage scrubber with Sodium Hypo Chlorite and Caustic soda along with stack of adequate height shall be provided to control process emission namely HCN. Wet scrubber along with stack of adequate height shall be provided to control process emission viz. NH_3. The scrubbing media shall be sent to effluent treatment plant (ETP) for treatment. Efficiency of scrubber shall be monitored regularly and maintained properly. At no time, the emission levels shall go beyond the prescribed standards.
1.3	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 SPCB. Odour management plan shall be implemented.
1.4	The total fresh water requirement from the existing desalination plant shall not exceed 1279m3/day.
1.5	NOC from the concerned Authority shall be obtained before start of the construction of plant and drawing water from desalination water source. State Pollution Control Board shall not issue the Consent to Operate (CTO) under Air (Prevention and Control of Pollution) Act and Water (Prevention and Control of Pollution) Act till the project proponent shall obtain such permission.
1.6	Industrial Effluent of waste water shall not exceed 1115 KLD. Effluent shall be treated in proposed ETP of Capacity: 2000 KLD) followed by RO system. High TDS effluent stream shall be treated though MEE followed by ATFD to achieve “Zero Liquid Discharge”. 25 KLD Sewage will be generated from Domestic purpose shall be treated in Proposed STP (Capacity: 30 KLD) and further treated Sewage shall be used for horticulture purpose. Cyanide effluent treatment stream shall be treated in the dedicated treatment unit to ensure proper destruction of the cyanide, if any.

S. No	EC Conditions
1.7	Training shall be imparted to all employees on safety and health aspects of chemicals handling. Safety and visual reality training shall be provided to employees.
1.8	The green belt of at least 5 m-10m width shall be developed over an area of 10,705 m^2 (34% of the total project area) with tree density @ 2500 trees per hectares, mainly along the plant periphery. Indigenous species shall only be developed as part of greenbelt and non-indigenous / alien species shall be replaced with native species. No invasive or alien or non-native tree species shall be selected for plantation. PP shall develop at least 20 variety of species as a part of greenbelt. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. The budget earmarked for the plantation shall be kept in a separate account and should be audited annually. The PP shall annually submit the audited statement along with proof of activities viz. photographs (before & after with geo-location date & time), details of expert agency engaged, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during previous year.
1.9	A separate Environmental Management Cell (having qualified persons 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 by engaging Functional Compliance Officers - Strategic Business Unit Compliance Officers- Unit Head- Business head – whole time director EHS – Board of director . In addition to this, one safety & health officer as per the qualification given in Factories Act, 1948 shall be engaged within a month of grant of EC. The PP should annually submit the audited statement of amount spent towards the engagement of qualified persons in EMC along with details of person engaged to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
1.10	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. The budget proposed under EMP Rs. 1105.5 lakh (Capital cost) and 650.0 lakh per annum (Recurring cost)] shall be kept in a separate account and should be audited annually. The PP should submit the annual audited statement along with proof of implementation of activities proposed under EMP duly supported by photographs (before & after with geo-location date & time) and other document as applicable to the Regional Office of MoEF&CC before 1st July of every year for the activities carried out during the previous year.
1.11	All the hazardous waste shall be managed and disposed as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Hazardous waste such as Distillation Residue and Off Specification Products shall be either sent to common incineration site or sent for coprocessing. Solid waste shall be segregated into dry and wet garbage at site in accordance to the Solid Waste Management Rules, 2016. Wet garbage shall be converted into compost and used as manure for greenbelt development.
1.12	As committed, PP shall not manufacture banned pesticide.
1.13	Monitoring of the compliance of EC conditions shall be submitted with third party audit every year.
1.14	As proposed, an amount of 3.0 Crores lakhs shall be allocated towards CER.
1.15	The PP shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon

S. No	EC Conditions
	sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.16	The project proponent shall comply with the environment norms for 'synthetic organic chemicals' as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 608 (E), dated 21st July, 2010 and Pesticide Industry vide GSR 446 (E), dated 13.6.2011 under the provisions of the Environment (Protection) Rules, 1986.
1.17	All necessary precautions shall be taken to avoid accidents and action plan shall be implemented for avoiding accidents. The PP shall implement the onsite/offsite emergency plan/mock drill etc. and mitigation measures as prescribed under the rules and guidelines issued in the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, and the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996. The occupier of new as well as expansion projects shall be required to comply with the provisions of the MSHIC Rules, 1989 including notifying their activities or seeking site approval from the concerned authorities, to address operational safety aspects. In doing so, various schedule, particularly Schedule-5 of the said rules may be referred.
1.18	The volatile organic compounds (VOCs)/Fugitive emissions shall be controlled at 99.97 % with effective chillers/modern technology. Regular monitoring of VOCs shall be carried out.
1.19	PP shall provide adequate chlorine handling system with hood, suction device followed by scrubber and chlorine detector and alert system.
1.20	The storage of toxic/hazardous raw material shall be bare minimum with respect to quantity and inventory. Quantity and days of storage shall be submitted to the Regional Office of Ministry and SPCB along with the compliance report.
1.21	The occupational health centre for surveillance of the worker's health shall be set up. 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.
1.22	Training shall be imparted to all employees on safety and health aspects for handling chemicals. Safety and visual reality training shall be provided to employees. Action plan for mitigation measures shall be properly implemented based on the safety and risk assessment studies.
1.23	The unit shall make the arrangement for the protection of possible fire hazards during manufacturing process in material handling. Fire-fighting system shall be as per the norms.
1.24	The storm water from the roof top shall be channelized through pipes to the storage tank constructed for harvesting of rain water in the premises and harvested water shall be used for various industrial processes in the unit. No recharge shall be permitted within the premises. Process effluent/ any wastewater shall not be allowed to mix with storm water.
1.25	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 servers. For online continuous monitoring of effluent, the unit shall install web camera with night vision capability and flow meters in the channel/drain carrying effluent within the premises.
1.26	The PP shall undertake waste minimization measures as below (a) Metering and control of quantities of

S. No	EC Conditions
	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 vapor recovery system. (f) Use of high pressure-hoses for equipment cleaning to reduce wastewater generation.
1.27	No banned chemicals shall be manufactured by the PP. No banned raw materials shall be used in the unit. The PP shall adhere to the notifications/guidelines of the Government in this regard.
1.28	There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products and no parking to be allowed outside on public places.
1.29	Storage of raw materials shall be either in silos or in covered areas to prevent dust pollution and other fugitive emissions. All stockpiles should be constructed over impervious soil and garland drains with catch pits to trap runoff material shall be provided. Chemicals shall be stored in covered sheds and wind breaking walls/curtains shall be provided around biomass storage area to prevent its suspension during high wind speed. All Internal roads shall be paved. The Air Pollution Control System shall be interlocked with process plant/machinery for shutdown in case of operational failure of Air Pollution Control Equipment.
1.30	PP shall sensitize and create awareness among the people working within the project area as well as its surrounding area on the ban of Single Use Plastic in order to ensure the compliance of Notification published by MOEFCC on 12th August, 2021. A report along with photographs on the measures taken shall also be included in the six-monthly compliance report being submitted to concerned authority

Standard EC Conditions for (Synthetic organic chemicals industry)

1.

S. No	EC Conditions
1.1	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.
1.2	The Project proponent shall strictly comply with the rules and guidelines issued under the Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989, as amended time to time, the Chemical Accidents (Emergency Planning, Preparedness and Response) Rules, 1996, and Hazardous and Other Wastes (Management and Trans-Boundary Movement) Rules, 2016 and other rules notified under various Acts.
1.3	The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.4	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

S. No	EC Conditions
	(Protection) Act, 1986 Rules, 1989 viz. 75 dBA (day time) and 70 dBA (night time).
1.5	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. The activities shall be undertaken by involving local villages and administration. The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.
1.6	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.
1.7	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.
1.8	The project proponent shall also upload/submit six monthly reports on Parivesh Portal on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data to the respective Integrated 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.
1.9	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 Integrated Regional Office of MoEF&CC by e-mail.
1.10	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.
1.11	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.
1.12	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.

Annexure 2

Details of the Project

<table>
<tr><th>S. No.</th><th>Particulars</th><th>Details</th></tr>
<tr><td>a.</td><td>Details of the Project</td><td>Environment Clearance for Proposed Project for Custom Manufactured Chemicals Division (CMCD) of Chemplast Sanmar Limited at Village Melavanjore, T. R. Pattinam, Karaikal, Puducherry UT by M/s. Chemplast Sanmar Limited</td></tr>
<tr><td>b.</td><td>Latitude and Longitude of the project site</td><td>10.84349999953872,79.83643114346175 10.84542264965754,79.83795187286358</td></tr>
<tr><td>c.</td><td>Land Requirement (in Ha) of the project or activity</td><td><table><tr><th>Nature of Land involved</th><th>Area in Ha</th></tr><tr><td>Non-Forest Land (A)</td><td>3.1485</td></tr><tr><td>Forest Land (B)</td><td>0</td></tr><tr><td>Total Land (A+B)</td><td>3.1485</td></tr></table></td></tr>
<tr><td>d.</td><td>Date of Public Consultation</td><td>Public consultation for the project was held on</td></tr>
<tr><td>e.</td><td>Rehabilitation and Resettlement (R&R) involvement</td><td>NO</td></tr>
<tr><td>f.</td><td>Project Cost (in lacs)</td><td>60000</td></tr>
<tr><td>g.</td><td>EMP Cost (in lacs)</td><td>1105.5</td></tr>
<tr><td>h.</td><td>Employment Details</td><td>120</td></tr>
</table>

Signature Not Verified

Digitally Signed by : Mr A N Singh
Member Secretary, MoEFCC (EC)

Date: 24/05/2024