



File No: IA-J-11011/37/2025-IA-II
Government of India
Ministry of Environment, Forest and Climate Change
IA Division



Date **05/07/2025**



To,

Sh. Ramkumar Shankar
M/s. CHEMPLAST SANMAR LIMITED,
No. 9 CATHEDRAL ROAD CHENNAI, CHENNAI, TAMIL NADU, 600086
nnk1@sanmargroup.com

Subject: **Proposed Ethylene Dichloride (EDC) – 75400 TPA Manufacturing Unit Located at Plot No. A-196, B-57, C-10, C-11, C-21, C-22, G-2, G-8, G-9, G-10 & G-11, Pondicherry Industrial Promotion Development and Investment Corporation Limited (PIDIC), Industrial Growth Centre, Polagam (Village), Karaikal (District), Puducherry of M/s. Chemplast Sanmar Limited - Grant of prior Environmental Clearance (EC) to the proposed project under the provision of the EIA Notification 2006 reg**

Sir/Madam,

This is in reference to your application submitted to MoEF&CC vide proposal number IA/PY/IND2/538306/2025 dated 03/06/2025 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.	EC25A2302PY5537072N
(ii) File No.	IA-J-11011/37/2025-IA-II
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(e) Petroleum products and petrochemical based processing such as production of carbon black and electrode grade graphite (processes other than cracking), 5(f) Synthetic organic chemicals industry
(vi) Sector	Industrial Projects - 2
(vii) Name of Project	Proposed Ethylene Dichloride (EDC) Manufacturing Unit
(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** Yes

3. The Ministry of Environment, Forest and Climate Change has examined the proposal for proposed Ethylene Dichloride (EDC) – 75400 TPA Manufacturing Unit Located at Plot No. A-196, B-57, C-10, C-11, C-21, C-22, G-2, G-8, G-9, G-10 & G-11, Pondicherry Industrial Promotion Development and Investment Corporation Limited (PIPDIC), Industrial Growth Centre, Polagam (Village), Karaikal (District), Puducherry of M/s. Chemplast Sanmar Limited.

4. The proposal was considered in EAC (Ind-2) meeting held on 10th June, 2025 wherein the project proponent and their accredited Consultant M/s. Aqua-Air Environmental Engineers Pvt. Ltd. (NABET Accreditation No.: NABET/EIA/24-27/RA 0352 Valid up to April 09, 2027 made a detailed presentation on the salient features of the project. The minutes of the meeting and all the Application and documents submitted [(viz. Form-1 Part A, Part B, Part C EIA, EMP)] are available on PARIVESH portal which can be accessed by scanning the QR Code available above.

5. The project is covered under the Category B of item 5(e) of the Schedule of Environment Impact Assessment (EIA) Notification, 2006 (amended from time to time) and due to the applicability of the General Condition i.e., within 0.56 Km radius of Interstate Boundary of Puducherry and Tamilnadu, the project was appraisal at Central Level as a Category 'A' project.

6. The project details are provided in Annexure-2, while the product specifications and capacities are outlined in Annexure-3.

7. Standard Terms of Reference have been obtained vide IA-J-11011/37/2025-IA-II and Identification No. TO25A2302PY5757990N dated 22/01/2025. It was informed by PP that there is no litigation pending against the project.

8. Public Hearing is exempted as per clause 7(i)(iii) of OM No. J-11011/321/2016-IA. II(I) dated 27th April 2018 of EIA Notification, 2006 (amended from time to time) as the project site is located within the Pondicherry Industrial Promotion Development and Investment Corporation Limited (PIPDIC), Industrial Growth Centre, Polagam Notified Industrial Area declared by Government of Puducherry and notified vide dated 30/10/1998.

9. Total land area required is 12.4683 hectares (30.81 Acre). Greenbelt will be developed in total area of 4.11 hectares (10.16 Acre) i.e., 33% of total project area. The estimated project cost is Rs 1200 Crores. Capital cost of EMP would be Rs. 26.53 Crores and recurring cost for EMP would be Rs. 14.53 Crores per annum. Industry proposes to allocate Rs. 6 Crores towards Extended EMP (Corporate Environment Responsibility). Total Employment will be 130 persons as direct & 150 persons indirect.

10. There are no national parks, wildlife sanctuaries, Biosphere Reserves, Tiger/Elephant Reserves, Wildlife Corridors etc. within 10 km distance from the project site. Puravadaianar River is flowing at approximately 0.512 Km at South Direction from the Project Site. 5 Numbers of the Schedule-I species [i.e., Grey mongoose, Shikra, Indian peafowl, Indian cobra, Indian rat snake]. Conservation plan is submitted to the Deputy Conservator of Forest on 07/03/2025. Conservation plan is under approval.

11. Ambient air quality monitoring was carried out at 9 locations during 1st July 2022 to 30th September 2022 and the baseline data indicates the ranges of concentrations as: PM10 (40.50 – 54 µg/m3), PM2.5 (19.13 – 25.54 µg/m3), SO2 (6.65 – 8.38 µg/m3) and NOx (13.01 – 16.58 µg/m3). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.641 µg/m3, 0.427 µg/m3, 1.87 µg/m3 and 0.670 µg/m3 with respect to PM10, PM2.5, SO2 and NOx. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

12. The total fresh water requirement is 1,528 m³/day, which will be met through the Desalination Plant of Chemplast Sanmar Limited, Karaikal. NOC for the same has been obtained by M/s Chemplast Sanmar Limited vide letter no. F-31-529/Dev/2024/1320/8832 dated 03.04.2025. The proposed effluent generation will be 616 m³/day, which will be treated through an Effluent Treatment Plant (ETP) followed by a Reverse Osmosis (RO) system and a Multiple Effect Evaporator

(MEE) facility. The effluent comprises 245 m³/day of cooling tower blowdown, 30 m³/day of DM plant and boiler blowdown, 275 m³/day of process effluent, and 50 m³/day of plant wash effluent—all of which will be treated in the ETP followed by RO. The RO permeate (510 m³/day) will be reused, while the RO reject (90 m³/day) will be sent to the MEE. The MEE condensate (90 m³/day) will also be reused within the plant premises, and the MEE salt will be sent to a TSDF. Additionally, 16 m³/day of domestic wastewater will be treated in a Sewage Treatment Plant (STP) of 20 m³/day capacity and reused for greenbelt development. The plant will operate on a Zero Liquid Discharge (ZLD) system, ensuring that no treated effluent is discharged outside the factory premises.

13. The total power requirement will be 11 MW, comprising 8 MW from the grid and 3 MW generated from waste steam produced in the process. Four DG sets of 2000 kVA each will be used as standby during power failure, with 30 m high stacks provided as per CPCB norms. For emission control, two 25 TPH boilers will be installed with an adequate stack height of 40 m to control particulate emissions within the statutory limit of 50 mg/Nm³. One HF Reactor Heating Chamber (HAG) of 50 Lakh Kcal will be provided with a 35 m high stack, and one Fluorspar Dryer of 20 Lakh Kcal will be equipped with a 34 m high stack. Details of the power source, fuel, and emission control measures are enclosed at Annexure-4.

14. Details of Process emissions generation and its management:

- 1 No. of Central absorption system (AHF) with Adequate Stack height of 35 Meter.
- 1 No. of Anhydrite Scrubber Vent (AHF) with Wet scrubber + Adequate Stack Height of 35 Meter.
- 1 No. of R32 (Difluoromethane) with Adequate Stack height of 35 Meter.
- 1 No. of Oxy Vent scrubber with Adequate stack height of 30 meter + Online analyser.
- 1 No. of Sulphuric acid plant Final Absorption Tower stack with Adequate stack height of 35 Meter + Online analyser for SO₂
- 1 No. of Caustic Scrubber (Sulphuric acid plant) with Adequate stack height of 30 Meter
- 1 No. of Incinerator Vent with Adequate Stack height of 35 Meter + Scrubber.

The process emissions generation and its management details are given in Annexure-5.

15. Details of solid waste/Hazardous waste generation and its management:

The unit will generate eight categories of hazardous/solid wastes, as detailed in Annexure-6. The hazardous waste will be collected and stored in a dedicated storage area in compliance with the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. The company will dispose of ETP sludge, MEE sludge, spent catalyst (sulfuric plant), spent catalyst (oxy plant), and sulfur sludge at the Kalyana Karnataka Waste Management Project Private Limited, located approximately 300 km from the project site. A No Objection Certificate (NOC) will be obtained from the Karnataka Pollution Control Board and Puducherry Pollution Control Committee for waste disposal at the TSDF site after securing EC and CTO.

Details of Non-Hazardous Waste and Its Disposal:

Seven Categories of Non-Hazardous Waste will be generated from this Unit as per details given in Annexure-7.

16. During deliberations, EAC discussed following issues:

- It has been informed to the committee that the Ministry requested comments from Pondicherry Pollution Control Committee (PPCC) vide e-mail dated 22nd January, 2025 as per SOP mentioned in OM Q-15012/2/2022-CPW-Part(1)/e-240741 dated 14th January, 2025 for exemption of CTE. The comments/inputs were not received from PPCC. Hence, Ministry has requested a representative from the PPCC to attend the meeting for furnishing comments.
- Member Secretary, Pondicherry Pollution Control Committee has attended the meeting and desired one month time for providing the inputs informing that they have place it before PPCC committee for approval.
- The project proponent has informed the committee that they shall apply for CTE separately from PPCC. It was informed to the committee that the SOP mentioned in OM dated 14th January, 2025 has not been fully established yet on parivesh portal. Considering these facts, the committee accepted the request made by the PP.
- The project proponent has proposed to sell the plastic, battery and e-waste to authorized vendors. In this regard the

committee informed that as per updated rules the Industry needs to dispose/sell the plastic, battery and e-waste to authorized recyclers only.

- It was suggested that the fuel used for the proposed boilers shall be natural gas/ LSHS with the PM emission limit of 100 mg/nm³.

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.

17. The EAC, constituted under the provision of the EIA Notification, 2006 and comprising of Experts Members/domain experts in various fields, have examined the proposal submitted by the Project Proponent in desired form along with the EMP report prepared and submitted by the Consultant accredited by the QCI/NABET on behalf of the Project Proponent. The EAC noted that the Project Proponent has given undertaking that the data and information given in the application and enclosures are true to the best of his knowledge and belief and no information has been suppressed in the report. If any part of data/information submitted is found to be false/misleading at any stage, the project will be rejected and Environmental Clearance given, if any, will be revoked at the risk and cost of the project proponent.

18. The Committee noted that the EIA/EMP report is in compliance of the ToR issued for the project, reflecting the present environmental concerns and the projected scenario for all the environmental components. The Committee has found the baseline data is within NAAQ standards. The Committee has deliberated the action plan proposed by the project proponent to arrest the incremental GLC due to the project. The Committee has also deliberated on the CER plan and found to be addressing the issues in the study area. The EAC has deliberated the proposal and has made 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 have found the proposal in order and have **recommended** for grant of Environmental Clearance.

19. The Environmental Clearance granted to the project/activity is strictly under the provisions of the EIA Notification 2006 and its 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 project proponent 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.

20. Based on the proposal submitted by the project proponent and recommendations of the EAC (Industry-2), Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance to the project **proposed Ethylene Dichloride (EDC) – 75400 TPA Manufacturing Unit Located at Plot No. A-196, B-57, C-10, C-11, C-21, C-22, G-2, G-8, G-9, G-10 & G-11, Pondicherry Industrial Promotion Development and Investment Corporation Limited (PIPDIC), Industrial Growth Centre, Polagam (Village), Karaikal (District), Puducherry of M/s. Chemplast Sanmar Limited**, under the provisions of the EIA Notification, 2006, and the amendments therein, subject to compliance of the terms and conditions enclosed at Annexure-1.

21. The Ministry reserves the right to stipulate additional conditions, if found necessary at subsequent stages and the project proponent shall implement all the said conditions in a time bound manner. The Ministry may revoke or suspend the environmental clearance, if implementation of any of the above conditions is not found satisfactory.

22. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.

23. Any appeal against this Environmental Clearance 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.

24. The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Hazardous Waste (Management, Handling and Transboundary Movement) Rules, 2016 and the Public Liability Insurance Act, 1991

read with subsequent amendments therein.

25. This issues with the approval of the Competent Authority.

Copy To

1. The Principal Secretary, Department of Forest and Wildlife, Government of Puducherry, Mullaiyagram Forest Campus, Cuddalore Main Road, Mudaliarpet, Pondicherry - 605004.
2. The Regional Officer, Ministry of Environment, Forest and Climate Change, Regional Office, 1st and 2nd Floor, Handloom Export Promotion Council, 34 Cathedral Garden Road, Nungambakkam, Chennai - 34.
3. The Member Secretary, Central Pollution Control Board, Parivesh Bhawan, CBD-cum-Office Complex, East Arjun Nagar, Delhi - 32.
4. The Member Secretary, Puducherry Pollution Control Committee, Mettupalayam Road, Mothilal Nagar, Marie Oulgaret, Puducherry - 605010.
5. Compliance & Monitoring Division, Ministry of Environment, Forest and Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi.
6. District Collector, Karaikal, Puducherry.
7. Guard File/Monitoring File/ Parivesh Portal /Record File.

Annexure 1

Specific EC Conditions for (Petroleum Products And Petrochemical Based Processing Such As Production Of Carbon Black And Electrode Grade Graphite (Processes Other Than Cracking))

1. General Conditions

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 energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.
1.3	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).
1.4	The company shall undertake all relevant measures for improving the socio-economic conditions of the surrounding area. Extended EMP 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.
1.5	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

S. No	EC Conditions
	shall not be diverted for any other purpose.
1.6	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.
1.7	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.
1.8	The environmental statement for each financial year ending 31 st 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.
1.9	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.
1.10	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.
1.11	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.

2. Petroleum Products And Petrochemical Based Processing Such As Production Of Carbon Black And Electrode Grade Graphite (Processes Other Than Cracking)

S. No	EC Conditions
2.1	The project proponent shall prepare a site specific conservation plan and wildlife management plan in case of the presence of Schedule-I species in the study area, as applicable to the project, and submit to Chief Wildlife Warden for approval. The recommendations shall be implemented in consultation with the State Forest/Wildlife Department in a time bound manner.
2.2	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 (Annexure - 8).

S. No	EC Conditions
2.3	Total water requirement is 1528 m ³ /day which will be met from Desalination Plant of Chemplast Sanmar Limited, Karaikal. Necessary permission in this regard shall be obtained from the concerned regulatory authority. 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. Process effluent/any wastewater shall not be allowed to mix with storm water. Storm water drain shall be passed through guard pond.
2.4	The PP shall obtain CTE 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 Puducherry Pollution Control Committee, prior to construction & operation of the project.
2.5	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.
2.6	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.
2.7	Regular VOC monitoring shall be done at vulnerable points.
2.8	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.
2.9	Oil catchers/oil traps shall be provided at all possible locations in rain/ storm water drainage system inside the factory premises.
2.10	<p>The company shall undertake waste minimization measures as below:</p> <ul style="list-style-type: none"> • 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. • Use of automated filling to minimize spillage. • Use of Close Feed system into batch reactors. • Venting equipment through vapour recovery system. • Use of high pressure hoses for equipment cleaning etc. to reduce wastewater generation.
2.11	Greenbelt of at least 5-10 m width shall be developed in 4.11 hectares, i.e., ~33% of total project @ 2500 trees per hectares, 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. 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. Saplings 4-6 feet high shall be planted. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department and native species shall be developed. Records of tree canopy shall be monitored through remote sensing map. The PP shall annually submit the audited statement along with geotagging, details of species planted, number of species planted, survival rate, density of plantation etc. to the Regional Office of MoEF&CC before 1 st July of every year for the activities carried out during previous year. Trees shall be planted in the Green Belt under the campaign #Plant4Mother #एक पेड़ माँ के नाम and uploaded on the MeriLiFE portal (https://merilife.nic.in/).
2.12	PP proposed to allocate Rs. 6.00 Crores towards Extended EMP which shall be implemented as per

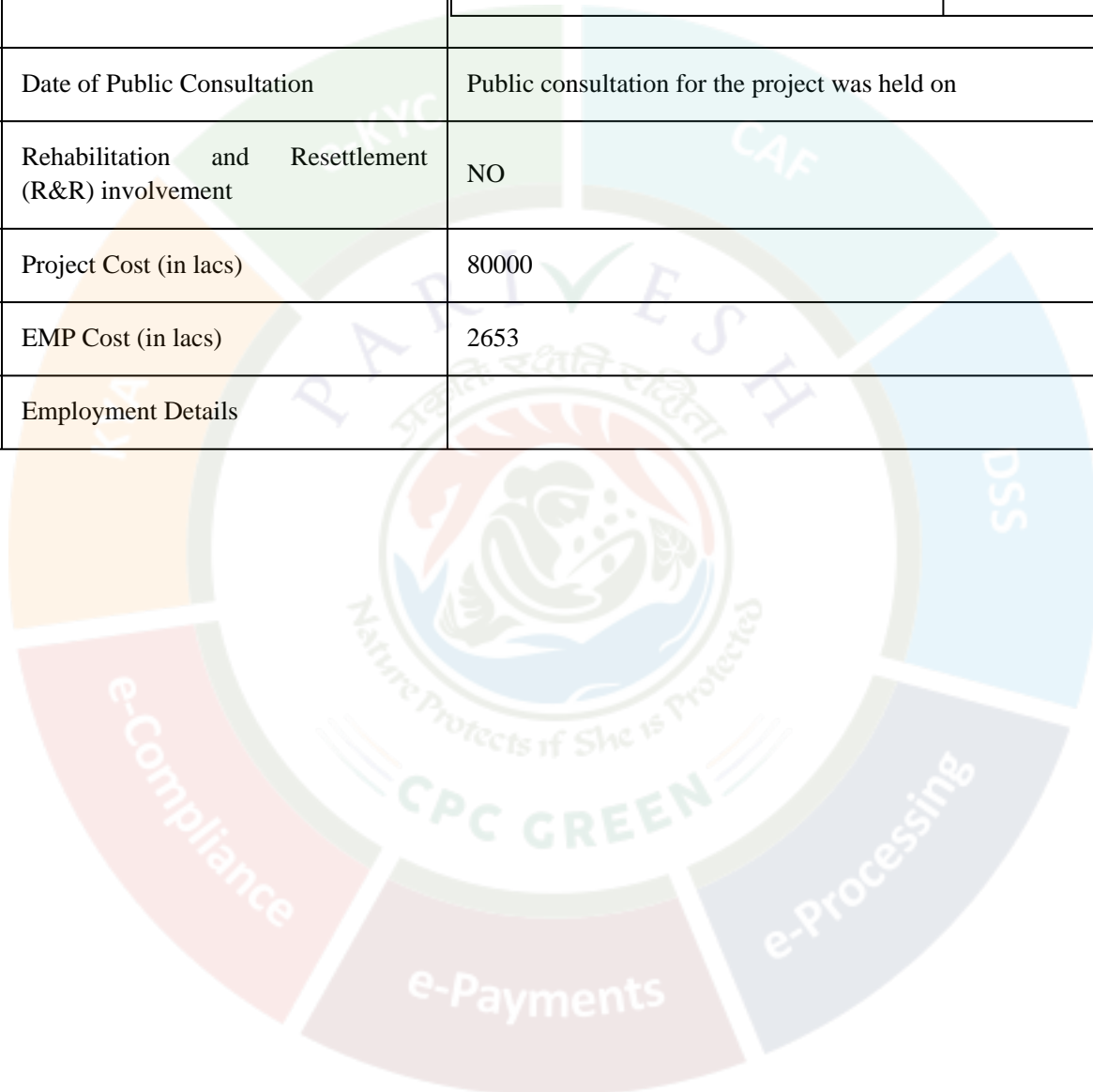
S. No	EC Conditions
	plan submitted (Annexure - 9) in consultation with District Administration.
2.13	A separate Environmental Management Cell (having qualified person with Environmental Science/Environmental Engineering/specialization in the project area) equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.
2.14	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.
2.15	The fuel used for the proposed 2 (25 TPH) boilers shall be natural gas/ LSHS with the PM emission limit of 100 mg/nm ³ . 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.
2.16	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.
2.17	The National Emission Standards for Petrochemical (Basic & Intermediates) issued by the Ministry vide G.S.R. 820 (E) dated 9 th November, 2012 as amended time to time shall be followed.
2.18	Recommendations of mitigation measures from possible accident shall be implemented based on advanced risk Assessment studies conducted for worst case scenarios using latest techniques.
2.19	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 12 th 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.

Annexure 2

Details of the Project

S. No.	Particulars	Details
a.	Details of the Project	Proposed Ethylene Dichloride (EDC) Manufacturing Unit
b.	Latitude and Longitude of the project site	10.8541466778895,79.82060726980318 10.85612255520612,79.82745600468162

S. No.	Particulars	Details	
		Nature of Land involved	Area in Ha
c.	Land Requirement (in Ha) of the project or activity	Non-Forest Land (A)	13.3146
		Forest Land (B)	0
		Total Land (A+B)	13.3146
d.	Date of Public Consultation	Public consultation for the project was held on	
e.	Rehabilitation and Resettlement (R&R) involvement	NO	
f.	Project Cost (in lacs)	80000	
g.	EMP Cost (in lacs)	2653	
h.	Employment Details		



The Details of Products and Capacity:

Sr. No.	Products	CAS No.	Production Capacity (TPA)
EC Products			
1.	Ethylene Di Chloride	107-06-2	75,400

Power Source, Fuel and Emission Control Details:

Sl. No	Stack attached To	Name of Fuel	Quantity of Fuel	APCM	Stack Height (m)
1.	Boiler (25 TPH) – 2 Nos.	Natural Gas / LSHS	84000 m ³ /day (NG) / 28.8 KL/Day (LSHS)	Adequate Stack Height	40
2.	HF Reactor Heating Chamber HAG (50 Lacs Kcal) - 1 No.	Natural Gas / LSHS	70000 m ³ /day (NG) / 24 KL/Day (LSHS)	Adequate Stack Height	35
3.	Emergency D.G Set – 4 nos. (2000 KVA each)	HSD	400 Lit/ Hr.	Adequate Stack Height	30
4	Fluorspar Dryer (20 Lacs Kcal) - 1 No.	Natural Gas / LSHS	10500 m ³ /day (NG) / 3.6 KL/Day (LSHS)	Adequate Stack Height + Bag Filter	34

Process Emissions Generation and Its Management:

Sr. No.	Process Stack Attached To	Air Pollution Control Measure (APCM)	Stack Height (meter)	Parameter
1.	Central absorption system (AHF)	Adequate Stack Height + Online analyser for HF	35	HF
2.	Anhydrite Scrubber Vent (AHF)	Wet Scrubber + Adequate Stack Height	35	HF
3.	HCl Absorber Vent	Adequate Stack Height	35	HCl HF
4.	Oxy Vent scrubber	Adequate Stack Height + Online analyser	30	HCl
5.	Sulphuric acid plant Final Absorption Tower stack	Adequate Stack Height + Online analyser for SO ₂	35	SO ₂
6.	Caustic Scrubber (Sulphuric acid plant)	Adequate Stack Height	30	SO ₂
7.	Incinerator Vent (1 No.)	Adequate Stack Height	30	SO ₂ NO _x HCl HF

Solid waste/Hazardous waste generation and its management:

Sr. No.	Hazardous Waste	Source of Generation	Category No.	Quantity (MT/Annum)	Mode of Disposal
1.	Used or Spent Oil	Equipment and Machineries	5.1	50	Collection, Storage, Transportation and Disposal by Selling to Registered Recycler for Recovery and Reuse (Recyclable).
2.	Wastes or Residue Containing Oil	Process	5.2	50	Collection, Storage, Transportation and Disposal by Selling to Registered Recycler for Recovery and Reuse (Recyclable).
3.	Empty Barrels / Containers / Liners Contaminated with Hazardous Chemicals / Wastes	Raw Material Storage	33.1	100	Collection, Storage, Transportation and Disposal by Selling to Registered Recycler for Recovery and Reuse (Recyclable).
4.	Chemical Sludge from Waste Water Treatment and MEE Plant	ETP & MEE	35.3	1000	Collection, Storage, Transportation and Disposal at common TSDF as per Hazardous and other Wastes (Management and Transboundary Movement) Rules 2016.
5.	Process or Distillation Residue	Process	36.1	1200	Collection, Storage and Captive Incineration or explore the possibility of Co-processing.
6.	Spent Catalyst (Sulphuric Plant)	Process	17.2	250	Collection, Storage, Transportation and Disposal at common TSDF as per Hazardous and other Wastes (Management and Transboundary Movement) Rules 2016.
7.	Spent catalyst (Oxy Plant)	Process	22.2	4	
8.	Sulfur Sludge	Process	--	5	

Non-Hazardous Waste and Its Disposal:

Sl. No.	Non - Hazardous Waste	Source of Generation	Quantity (MT/Annum)	Mode of Disposal
1.	STP Sludge	STP	60	Collection, Storage and used as Organic Manure for Green Belt Development.
2.	Plastic Waste	Raw Material Packaging	5	Collection, Storage, Transportation and sell to authorized recyclers or authorized vendors.
3.	M.S Scrap	Equipment	100	Collection, Storage, Transportation and sell to authorized recyclers or authorized vendors.
4.	E-Waste	From Electronic Equipment	1	Collection, Storage, Transportation and sell to authorized recyclers or authorized vendors.
5.	Battery Waste	From UPS & company vehicles	50 Nos.	Collection, Storage, Transportation and Sell to authorized recyclers or authorized vendors.
6.	Biomedical Waste	OHC	0.5	Collection, Storage, Transportation and sent to authorized Bio-Medical Waste Treatment Facility.
7.	Municipal Solid Waste (Dry Waste)	Canteen, Stationary, Pantry, etc.	5	Collection, storage, transportation and segregate it and send to recyclers.
	Wet Waste			Collection, storage, transportation and compost within premises and used as Organic Manure for green belt development.

Annexure-8

Details of Capital and Recurring Cost of EMP:

Sr. No.	Activity	Rs. in Lakhs	2025-26 (Rs. in Lakhs)	2026-27 (Rs. in Lakhs)	2027-28 (Rs. in Lakhs)	2028-29 (Rs. in Lakhs)	2029-30 (Rs. in Lakhs)
1.	Installation of 0.54 MW of Solar Energy Systems in nearby villages including Schools.	200	40	40	40	40	40
2.	Development of Greenbelt in nearby villages (40000 Nos. of Trees x Rs. 500/tree will be planted and maintained)	200	20	20	60	60	40
3.	Water Conservation - Desilting of Lakes / Ponds (About 100000 m3/Day x Rs.100/m3 of Soil will be desilted from irrigation)	100	25	--	50	--	25

	water reservoirs such as ponds and lakes.)						
4.	Providing of Drinking water facilities (Above ground tank: 1000 KL x Rs. 10000/KL (Rs. 10/Liter) in nearby villages	100	--	25	25	25	25
	Total	600 Lakhs	85 Lakhs	85 Lakhs	175 Lakhs	125 Lakhs	130 Lakhs

Annexure-9

Details of Extended EMP with Proposed Activities and Budgetary Allocation:

Sr. No.	Activity	Rs. in Lakhs	2025-26 (Rs. in Lakhs)	2026-27 (Rs. in Lakhs)	2027-28 (Rs. in Lakhs)	2028-29 (Rs. in Lakhs)	2029-30 (Rs. in Lakhs)
1.	Installation of 0.54 MW of Solar Energy Systems in nearby villages including Schools.	200	40	40	40	40	40
2.	Development of Greenbelt in nearby villages (40000 Nos. of Trees x Rs. 500/tree will be planted and maintained)	200	20	20	60	60	40
3.	Water Conservation - Desilting of Lakes / Ponds (About 100000 m ³ /Day x Rs.100/m ³ of Soil will be desilted from irrigation water reservoirs such as ponds and lakes.)	100	25	--	50	--	25
4.	Providing of Drinking water facilities (Above ground tank: 1000 KL x Rs. 10000/KL (Rs. 10/Liter) in nearby villages	100	--	25	25	25	25
	Total	600	85	85	175	125	130