



File No: IA-J-11011/21/2025-IA-II(I)  
Government of India  
Ministry of Environment, Forest and Climate Change  
IA Division  
\*\*\*



Date 18/06/2025



To,

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

**Subject:** Proposed 40000 TPA Difluoromethane (R-32) and 75400 TPA Ethylene Dichloride (EDC) 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 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/IND3/529760/2025 dated 24/03/2025 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.	EC25A2412PY5874312N
(ii) File No.	IA-J-11011/21/2025-IA-II(I)
(iii) Clearance Type	Fresh EC
(iv) Category	A
(v) Project/Activity Included Schedule No.	5(f) Synthetic organic chemicals industry ,5(e ) Petroleum products and petrochemical based processing such as production of carbon black and electrode grade graphite (processes other than cracking
(vi) Sector	Industrial Projects - 3
(vii) Name of Project	Proposed Difluoromethane (R-32) Manufacturing Unit
(viii) Name of Company/Organization	CHEMPLAST SANMAR LIMITED
(ix) Location of Project (District, State)	KARAİKAL, 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 establishment of **“Proposed 40000 TPA Difluoromethane (R-32) and 75400 TPA Ethylene Dichloride (EDC) 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 by M/s. Chemplast Sanmar Limited”**.

4. The project is covered under the Category A of item 5(f) of the Schedule of Environment Impact Assessment (EIA) Notification, 2006 (amended from time to time) due to the applicability of the general condition i.e. within 0.56 Km radius of Interstate Boundary of Puducherry and Tamil Nadu. Hence the proposal is appraised at the Central Level by the Expert Appraisal Committee (EAC).

5. ToR has been issued by Ministry vide letter No. IA-J-11011/21/2025-IA-II(I) and Identification No. TO25A2412PY5880327N dated 17/01/2025. The project proposal was earlier considered by the Expert Appraisal Committee (Industry-3) in its 98<sup>th</sup> meeting held on 7-8 April 2025 and 99<sup>th</sup> meeting held on 29-30 April 2025 wherein it was deferred for want of additional information. The project proposal was considered by the Expert Appraisal Committee (Industry-3) in its 101<sup>st</sup> meeting held on 23<sup>rd</sup> May 2025 wherein the Project Proponent and the accredited Consultant namely **M/s. Aqua-Air Environmental Engineers Pvt. Ltd. (NABET Accreditation Number: NABET/EIA/24-27/RA 0352 Valid till April 09, 2027)** made a detailed presentation on the salient features of the project and informed that:

6. Earlier PP has proposed 32.5 acre of land for the proposed project. PP has now revised the proposal by reducing land area to 30.81 Acre for proposed project for fulfilling the criteria of 500 m distance from the Puravadaianar river. Details / Status of Land Ownership / Land Possession:

Sr. No.	Plot No.	Plot area (sq. m.)	Date of land allotment	Date of land Possession	Date of lease /sale deed /land transfer	Validity of lease /sale deed or possession certificate	Name on allotment certificate
1.	Plot No. A-196, B-57, C-10, C-11, C-21, C-22, G-2, G-8, G-9, G-10 & G-11	30.81 Acre	16/12/2024	16/12/2024	Land registration under progress	Lease basis for a period of 30 years initially and extendable up to a maximum period of 99 years	Chemplast Sanmar Limited

**Pondicherry Industrial Promotion Development and investment Corporation Ltd. (PIPDIC) has allotted the land vide letter no. 31-529/Dev/2024/1320/7744 dated 16/12/2024.**

7. The details of products and capacity as under:

Sr. No.	Products	CAS No.	Production Capacity (TPA)
<b>EC Products</b>			
1	Difluoromethane (R32)	75-10-5	40,000
<b>Non-EC Products</b>			
3	Anhydrous Hydrofluoric acid (AHF)	7664-39-3	40,000

4	Hydrochloric acid (HCl) – 30 to 31%	7647-01-0	1,81,250
5	Sulphuric Acid (98%)	7664-93-9	89,600
6	Oleum (20%)	8014-95-7	21,500
By Product			
1	Dilute Sulphuric acid	7664-93-9	4,000
2	Dilute Hydrofluoric acid	7664-39-3	400
3	Anhydrite (Calcium Sulphate) -	7778-18-9	1,50,000
4	Hydrofluorosilicic Acid (15%)	16961-83-4	8,000

8. 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.

#### Details of project site proximity (in km) to sensitive areas:

§ Habitation - Polagam village – 0.6 Km in North

§ School - Govt. ITI Men College 1.3 KM North Direction

Govt. New Primary School, T.R Pattinam 1.5 Km North Direction

Cauvery Public School, Karaikal 4.8 Km North Direction

§ River / Waterbody - Puravadaianar River is flowing at approximately 0.512 Km at South Direction

§ Hospital - GL Hospital 6.6 Km in North Direction

§ Forest – No Forest Area within 10 Km from the Project Site.

§ Archaeological Survey of India (ASI) protected site – No ASI Site within 10 Km from the Project Site.

9. It is reported that no Eco-Sensitive Zone within 10 Km Radius from the Project Site. Coastal Regulatory Zone is approximately 1500 Meter away from the Project Site.

10. Ambient air quality monitoring was carried out at 9 locations during 1<sup>st</sup> July 2022 to 30<sup>th</sup> September 2022 and the baseline data indicates the ranges of concentrations as: PM<sub>10</sub> (40.50 – 54 µg/m<sup>3</sup>), PM<sub>2.5</sub> (19.13 – 25.54 µg/m<sup>3</sup>), SO<sub>2</sub> (6.65 – 8.38 µg/m<sup>3</sup>) and NO<sub>x</sub> (13.01 – 16.58 µg/m<sup>3</sup>). AAQ modeling study for point source emissions indicates that the maximum incremental GLCs after the proposed project would be 0.641 µg/m<sup>3</sup>, 1.87 µg/m<sup>3</sup> and 0.670 µg/m<sup>3</sup> with respect to PM<sub>10</sub>, SO<sub>x</sub> and NO<sub>x</sub>. The resultant concentrations are within the National Ambient Air Quality Standards (NAAQS).

11. Total water requirement is 2144 m<sup>3</sup>/day of which fresh water requirement of 1528 m<sup>3</sup>/day will be met from Desalination Plant of Chemplast Sanmar Limited, Karaikal or water supply of Puducherry Industrial Promotion Development and Investment Corporation (PIPDIC).

12. Industrial effluent of 600 m<sup>3</sup>/day quantity will be treated through ETP followed by RO and MEE facility. RO permeate and MEE condensate will be recycled/reused for cooling make up water and process. Sewage generation will be 16 KLD and treated sewage will be treated in the STP. 245 m<sup>3</sup>/day of cooling blowdown, 30 m<sup>3</sup>/day of DM plant reject and Boiler blowdown, 275 m<sup>3</sup>/day of process effluent, 50 m<sup>3</sup>/day of plant wash effluent will be treated in ETP followed by RO. RO Permeate 510 m<sup>3</sup>/day will be reuse and RO Reject 90 m<sup>3</sup>/day will be send to MEE facility. MEE condensate 90 m<sup>3</sup>/day will be reuse within plant premises. MEE Salt will be sent to TSDF. 16 m<sup>3</sup>/day of domestic waste water will be treated in the STP and then reused for green belt purpose. The plant will maintain Zero Liquid discharge (ZLD) system.

13. Rainwater storage tank capacity - (1 no. x 200 KL).

14. Power requirement will be 11 MW (Power from grid – 8 MW + Power generated from waste Steam produced in the Process – 3 MW). 2000 KVA of 4 Nos. of D.G set will be used as standby during power failure. Stack (height 30 m) will be provided as per CPCB norms to the proposed DG sets.

S.N.	Source	Total
1.	Total power requirement	11 MW
1a	Power from grid	8 MW
1b	Power generated from waste Steam produced in the Process	3 MW
2.	Emergency Power (D.G Set)	2000 X 4 Nos.

15. 2 Nos. of 25 TPH of Boiler with Adequate Stack Height of 40 Meter, 1 No. of 50 Lacs Kcal of HF Reactor Heating Chamber HAG with Adequate Stack Height of 35 Meter, 1 No. of 20 Lacs Kcal of Fluorspar Dryer with Adequate Stack Height and Bag Filter of 34 Meter will be installed for controlling the particulate emissions within the statutory limit of 115 mg/Nm<sup>3</sup> for the proposed boilers.

Stack Height of 40 Meter, 35 Meter and 34 Meter will be provided to Natural Gas / LSHS based 2 Nos. of 25 TPH Boiler, 1 No. of 50 Lacs Kcal of HF Reactor Heating Chamber HAG, 1 No. of 20 Lacs kcal of Fluorspar Dryer respectively to control particulate emissions as per CPCB /SPCB norms. Stack height of 30m shall be provided to D.G set (4x2000 KVA) as per CPCB/SPCB norms.

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 <sup>3</sup> /day (NG) / 28.8 KL/Day (LSHS)	Adequate Height	Stack 40
2.	HF Reactor Heating Chamber HAG (50 Lacs Kcal) - 1 No.	Natural Gas / LSHS	70000 m <sup>3</sup> /day (NG) / 24 KL/Day (LSHS)	Adequate Height	Stack 35
3.	Emergency D.G Set – 4 nos. (2000 KVA each)	HSD	400 Lit/ Hr	Adequate Height	Stack 30
4	Fluorspar Dryer (20 Lacs Kcal) - 1 No.	Natural Gas / LSHS	10500 m <sup>3</sup> /day (NG) / 3.6 KL/Day (LSHS)	Adequate Height + Bag Filter	Stack 34

16. Details of fuel: Proposed

Sr. No.	Fuel	Consumption
1.	Natural Gas / LSHS	1,64,500 SCM/Day / 56.4 KL/Day
2.	HSD	400 Lit/hr.

17. Adequate Stack Height of 35 Meter + Online analyser for HF will be provided to Central absorption system (AHF). Adequate Stack Height of 35 Meter + Wet Scrubber will be provided to Anhydrite Scrubber Vent (AHF). Adequate Stack Height of 30 Meter + Online Analyzer will be provided to Oxy Vent scrubber. Adequate Stack Height of 35 Meter + Online analyser for SO<sub>2</sub> will be provided to Sulphuric acid plant Final Absorption Tower stack. Adequate Stack Height of 30 Meter will be provided to Caustic Scrubber (Sulphuric acid plant). Adequate Stack Height of 35 Meter will be provided to R32 (Difluoromethane). Adequate Stack Height of 30 Meter + Scrubber will be provided to Incinerator vent.



Sl. No.	Process Stack Attached To	Air Pollution Control Measure (APCM)	Stack Height (meter)	Parameter
1.	R32 (Difluoromethane)	Adequate stack height	35	HCl, HF
2.	Incinerator Vent (1 No.)	Scrubber + Adequate stack height	30	SO <sub>2</sub> , NO <sub>x</sub> , HCl, HF
3.	Central absorption system (AHF)	Adequate stack height + Online analyser for HF	35	HF
4.	Anhydrite Scrubber Vent (AHF)	Wet scrubber + Adequate stack height	35	HF
5.	Oxy Vent scrubber	Adequate stack height + Online analyser	30	HCl
6.	Sulphuric acid plant Final Absorption Tower stack	Adequate stack height + Online analyser for SO <sub>2</sub>	35	SO <sub>2</sub>
7.	Caustic Scrubber (Sulphuric acid plant)	Adequate stack height	30	SO <sub>2</sub>

18. 8 Categories of Hazardous / Solid Wastes will be generated from this Unit. The Hazardous Waste will be collected and stored at dedicated Hazardous Waste Storage Area as per Hazardous and other Wastes (Management and Transboundary Movement) Rules 2016. Company will dispose off ETP Sludge, MEE Sludge, Spent Catalyst (Sulphuric Plant), Spent catalyst (Oxy Plant) and Sulfur Sludge to Kalyana Karnataka Waste Management Project Private Limited which is approx. 300 Km from the Project Site. No Objection Certificate (NOC) will be obtained from Karnataka Pollution Control Board and Puducherry Pollution Control Committee for disposal of waste to TSDF Site after getting EC and CTO.

PP has earmarked around 375 Sq. meter area for the storage of hazardous waste.

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

7	Spent catalyst (Oxy Plant)	Process	22.2	4	common TSDF as per Hazardous and other Wastes (Management and Transboundary Movement) Rules 2016.
8	Sulfur Sludge*	Process	17.1	5	

\*Note: - PP agreed to explore the possibility for recycling or reusing sulphur sludge generated from the proposed processes.

#### Details of Non - Hazardous Waste and Its Disposal:

7 Categories of Non - Hazardous Waste will be generated from this Unit.

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 preparation within plant premises and used as Organic Manure for green belt development.

19. Public Hearing is exempted as per clause 7(i) (iii) of OM No. J-11011/321/2016-IA. II(I) dated 27<sup>th</sup> 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.

20. Water requirement will be met through Desalination Plant of Chemplast Sanmar Limited (through Pipeline) or water supply of Puducherry Industrial Promotion Development and Investment Corporation (PIPDIC). As per option-1, PP informed that status of CRZ clearance for the proposed 6 MLD desalination plant of Chemplast Sanmar Ltd at Karaikal (Proposal No IA /PY/CRZ/504431/2024) is under process with CRZ committee of MoEF&CC. As per Option -2, Puducherry Industrial Promotion Development and Investment Corporation (PIPDIC) has also allotted 1500 KLD of water for the said project vide letter no F 31-529/Dev/2024/1320/8832 dated 03.04.2025.

21. Details/Status of approved Wildlife Conservation Plan: Conservation plan is submitted to the Deputy Conservator of Forest on 07/03/2025. Conservation plan is under submission for approval.

22. Industry will develop greenbelt in an area of 33 % i.e., 41146.26 Sq. Meter (10.16 Acre) out of total area of the project. The industry will plant 10280 nos. of tree saplings.

23. Total Employment will be 130 persons as direct & 150 persons indirect. Industry proposes to allocate Rs 600 Lacs @ of 0.5 % towards CER.

24. The estimated project cost is Rs 1200 Crore. Total capital cost earmarked towards environmental pollution control measures is Rs. 26.53 Crore and the Recurring cost (operation and maintenance) will be about Rs. 14.53 Crore per annum. The breakup of capital and recurring cost is as follows:

Sr. No.	System	Approximate capital cost (Rs. in Lakhs)	Approximate recurring cost per annum (Rs. in Lakhs)	Basis for cost estimates
1	Air control pollution	138	11.5	Capital Cost Process vent = @ 5 Lakh / Vent 5 lakh*7 = 35 Lakh Flue Gas Stack = @ 5 Lakh / Vent 5 lakh*4 = 20 Lakh CEMS Cost = 50 Lakh Laboratory Instrument = 30 Lakh Water Sprinkling System = 3 Lakh Total = 138 Lakh Recurring Cost 8.5% of Opex Cost = 11.5 Lakh
2	Water control pollution	772	1170	Capital Cost Cost of MEE & RO (90 KLD & 600 KLD) = 600 Lakh Cost of STP (20 KLD) = 40 Lakh Cost of ETP (600 KLD) = 132 Lakh Total = 772 Lakh Recurring Cost Operation and maintenance = 1170 Lakh
3	Noise pollution monitoring	30	--	Capital Cost Cost of Acoustic enclosure; Silencer, Vibration pads; Noise PPEs = 30 Lakh
4	Solid and hazardous waste management	501	170	Capital Cost Membership Cost = 1 Lakh Cost of Incinerator = 500 Lakh Recurring Cost TSDF Disposal and Transportation Cost (@ Rs. 4000 / Ton) = 50 Lakh Captive Incinerator (@ Rs. 10000 / Ton) = 120 Lakh
5	Environment monitoring and management	--	3	Cost of Environment Monitoring
6	Rain water Harvesting	20	0	Cost of 200 KL Tank for Rain Water Storage = 20 Lakh
7	Green belt	54.25	5	Cost of Trees including Additional Charges for

				replacement (@ Rs. 527 / Tree) = 54.25 Lakh Recurring Cost Maintenance of trees = 1% of Capital Cost i.e. 5 Lakh
8	Fire & Safety	500	50	Capital Cost Installation cost of all the Safety Equipment / Control Measures, Installation Cost of PLC Based SCADA System. Monitoring cost of 3 <sup>rd</sup> party including On-site, Off-site and Risk assessment, Installation cost of Fire Extinguisher, Fire hydrant line, alarm system in plant area [i.e., Cost of fire extinguishers, Cost of installation of Fire trolley siren, Electric Bell] = 500 Lakh Recurring Cost Maintenance cost of Safety Equipment, SCADA System, Fire line = 50 Lakh
9	Occupational health (OHC)	38	43.6	Cost of PPE Kits (Safety Helmet, Glasses, Gloves, Shoes, Fire Proximity Suit) = 30 Lakh Cost of Safety Boards = 3 Lakh Cost of Eye Wash Shower = 5 Lakh Total = 38 Lakh Recurring Cost Cost of Antidote, Safety Training, Safety Audit, Health Checkup, Mock drill = 43.6 lakh
10	CER Activity	600	0	As per notification of MoEF&CC Impact Assessment Division vide F. No. 22-65/2017-IA.III Dated 1/05/2018, If Capital Investment is >1000 Crores to <10000 Crores then Company has to spend 0.5% of Capital Cost under Corporate Environment Responsibility.
11	Cost of conservation plan of Schedule-I species, if any	0.45	0	Allocation of Small water tank, awareness programme towards conservation of 5 Nos. of Schedule – I Species
	<b>Total</b>	<b>2653.7</b>	<b>1453.1</b>	

Sr. No.	Activity	Amount Allocated (Rs.)
	Plant & Machineries, Cost of Land Including ETP, RO and MEE, Plant Equipment, Utility, Fire Protection System.	
	Air Pollution Control Measure (APCM), Acoustic enclosures for utility housing, D.G set, detector systems, Odour Control Measures, inhouse monitoring and analytical facilities, third party monitoring arrangements, OHC & its infrastructure facilities.	26.53 Crore
	Power consumption of APCM, Treatment cost including cost of treatment chemicals, pumping costs, manpower costs, power consumption, maintenance, replacements, Noise monitoring & maintenance of noise attenuation structures and devices, EMS cell activities, environmental audits, compliance audits, statutory compliances, third party monitoring expenses, Manning of OHC, hiring of panel doctors, medical examinations, OHC expenses, Manning of Env Lab, Lab expenses.	14.53 Crore /Annum



	Socio-Economic Activity	6 Crore
	Land Allotment vide file no. 31-529/Dev/2024/1320/7744 Dated 16/12/2024.	7.56 Crore
	Not Applicable.	----
	Cost of trees - Land Reclamation, Land levelling and Cost of trees	0.65 Crore
	Conservation Plan under approval.	0.0045 Crore
	Water will be met through Desalination Plant of Chemplast Sanmar Limited (through Pipeline) or PIPDIC	--
	No Critical issues related to the Project.	--

## 25. Deliberations by the EAC:

The following points were discussed in the meeting:

1. Earlier PP has proposed 32.5 acre of land for the proposed project. PP has now revised the proposal by reducing land area to 30.81 Acre for proposed project for fulfilling the criteria of 500 m distance from the Puravadaianar river.
2. PP vide letter dated 07.05.2025 submitted the letter no 21/PW/CIR-III/AE(P)/KKL/2025-26 dated 7.05.2025 issued by the Officer of the Superintending Engineer, Govt. of Puducherry, Circle III, PWD, Karaikal from Government of Puducherry highlighting that as per revised plan furnished, the project site is located at a distance of 512 m from the Puravadaianar River. Committee noted that the revised the plant layout submitted by PP is in line with the siting criteria as per the Notification dated 30<sup>th</sup> January 2025.
3. PP submitted revised water balance for monsoon and non-monsoon seasons.
4. PP submitted details of area earmarked for interim storage facility for Hazardous Waste at project site is 375 m<sup>2</sup>, details of STP / ETP design criteria, details of remedial / mitigation measures for associated risk due to hazardous chemicals and details of initial version of the baseline data used in the EIA report.
5. PP submitted the revised final EIA report.

The committee was satisfied with the response provided by PP on above information.

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.

26. Based on the proposal submitted by the PP and recommendations of the EAC, in its 101<sup>st</sup> EAC held on 23<sup>rd</sup> May, 2025 (Industry-3 Sector), the Ministry of Environment, Forest and Climate Change hereby accords Environmental Clearance for **“Proposed 40000 TPA Difluoromethane (R-32) and 75400 TPA Ethylene Dichloride (EDC) 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 by M/s. Chemplast Sanmar Limited”** under the provisions of the EIA Notification 2006 and its subsequent amendments therein, subject to compliance of the Specific and General terms and conditions as mentioned at **Annexure-1**. 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.

27. 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.

28. 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.

29. 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.

30. 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.

31. 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.

32. 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.

33. 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.

34. 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.

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.
7. Guard File/Monitoring File/Website/Record File/Parivesh portal.

#### **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. Specific Conditions**

<b>S. No</b>	<b>EC Conditions</b>
<b>1.1</b>	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.
<b>1.2</b>	Stack Height of 40 m shall be provided to Natural Gas / LSHS fired boilers (2 x 25 TPH). Stack Height of 35 m shall be provided to Natural Gas / LSHS fired HF Reactor Heating Chamber HAG (1 x 50 Lacs Kcal). Stack Height of 34 m shall be provided to Natural Gas / LSHS fired Fluorspar Dryer (1 x 20 Lacs kcal). Stack height of 30m shall be provided to D.G set (4 x 2000 KVA) as per CPCB/SPCB norms.
<b>1.3</b>	Central absorption system (AHF) alongwith stack height of 35 Meter as well as Online analyser for HF will be provided to control HF emissions. Anhydrite Scrubber Vent (AHF) alongwith Stack Height of 35 Meter as well as Wet Scrubber shall be provided to control HF emissions. Adequate scrubbing system alongwith stack of 35 m shall be provided to R-32 reactors to control HCl and HF emissions. Oxy Vent scrubber alongwith Stack Height of 30 Meter as well as Online Analyzer will be provided to control HCl emissions. Final Absorption Tower alongwith Stack Height of 35 Meter as well as Online analyser for SO2 will be provided to control SO2 emissions. Stack Height of 30 Meter alongwith Caustic Scrubber shall be provided to Sulphuric acid plant to control SO2

S. No	EC Conditions
	emissions. Stack Height of 30 Meter alongwith Scrubbers shall be provided to Incinerator vent.
1.4	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.
1.5	Total fresh water requirement procured from desalination plant or water supply of Puducherry Industrial Promotion Development and Investment Corporation (PIPDIC) shall not exceed 1528 m <sup>3</sup> /day.
1.6	NOC from the Concerned Authority shall be obtained before start of the expansion of plant for drawing of the water from desalination plant and water supply of Puducherry Industrial Promotion Development and Investment Corporation (PIPDIC). State Pollution Control Board / Pollution Control Committees 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.
1.7	Total industrial effluent generation shall not exceed 600 m <sup>3</sup> /day. Industrial effluent shall be treated in the ETP comprising primary, secondary and tertiary treatment including RO and MEE facility. RO Permeate and MEE condensate shall be recycled/reused for cooling tower make up. Sewage shall be treated in the sewage treatment plant and treated water shall be reused for horticulture purpose. No treated water shall be discharged outside the premises and Industrial unit shall maintain ZLD.
1.8	The unit shall make necessary arrangement along the periphery of the plant area to channelize the storm water to collection pit. Storm water after treatment shall be recycled /reused for cooling make up/in process. pH meter, ToC analyzer, Ammonical Nitrogen analyzer & Flow meter shall be installed to check the quality of storm water and records shall be maintained.
1.9	The green belt of at least 5 m-10m width shall be developed in an area of 10.73 Acres (33% of total 32.5 Acres) within plant premises. The industry shall plant 10280 nos. of trees/saplings/plants within premises. Tree saplings selected for the plantation should be of sufficient height, preferably 6-ft shall be planted in greenbelt area. 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.
1.10	Plantation of saplings shall be carried out as a part of tree plantation campaign "EK PED MAA ke NAAM" and details of the same to be uploaded in the Meri LiFE portal ( <a href="https://merilife.nic.in">https://merilife.nic.in</a> ) in respect to this Ministry's OM No. IA3-22/3/2024-IA.III(E-241594) dated 24th July 2024.
1.11	Roof top rain water shall be collected in 1 x 200 KL underground RCC storage tank. The rain water collected shall be reused within the plant after filtration as per requirement. Storm water from the open area shall be collected separately and stored in an underground RCC storage tank, which has



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	shall be recycled/reused within the plant premises.
1.12	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. 26.53 Crore (Capital cost) and Rs. 14.53 Crore 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.
1.13	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.
1.14	No banned chemicals shall be manufactured by the project proponent. No banned raw materials shall be used in the unit. The project proponent shall adhere to the notifications/guidelines of the Government in this regard.
1.15	The project proponent shall comply with the environment norms for synthetic organic chemical as notified by the Ministry of Environment, Forest and Climate Change, vide GSR 608 (E), dated 21.7.2010 under the provisions of the Environment (Protection) Rules, 1986.
1.16	PP shall not produce or consume Ozone Depleting Substances without registration under Ozone Depleting Substances (Regulation and Control) Rules 2000 as amended from time to time.
1.17	Captive incinerator shall be designed according to the guidelines provided by the Central Pollution Control Board (CPCB). The incinerator shall meet specific performance standards and pollution control norms.
1.18	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 send 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.
1.19	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 Environment Officials. 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

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	MoEF&CC before 1st July of every year for the activities carried out during the previous year.
1.20	The PP shall utilize modern technologies for capturing of carbon emitted and shall also develop carbon sink/carbon sequestration resources capable of capturing more than emitted. The implementation report shall be submitted to the IRO, MoEF&CC in this regard.
1.21	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 MSIHC 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.
1.22	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.
1.23	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.
1.24	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.
1.25	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.
1.26	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.
1.27	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.
1.28	The PP 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

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	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.
1.29	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.
1.30	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.
1.31	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.

#### **Additional EC Conditions**

##### **General Conditions:**

(i) 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.

(ii) 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.

(iii) The energy source for lighting purpose shall be preferably LED based, or advanced having preference in energy conservation and environment betterment.

(iv) 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).

(v) 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.

(vi) 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.

(vii) A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZillaParishad/Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.

(viii) 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.

(ix) 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.

(x) 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.

(xi) 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.

(xii) 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**



S. No.	Particulars	Details	
a.	Details of the Project	Proposed Difluoromethane (R-32) Manufacturing Unit	
b.	Latitude and Longitude of the project site	10.8541466778895,79.82060726980318 10.85612255520612,79.82745600468162	
c.	Land Requirement (in Ha) of the project or activity	<b>Nature of Land involved</b>	<b>Area in Ha</b>
		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)	2581.25	
h.	Employment Details		