



Government of India
Ministry of Environment, Forest and Climate Change
(Issued by the State Environment Impact Assessment
Authority(SEIAA), Tamil Nadu)

To,

The Director
MOMENTIVE PERFORMANCE MATERIAL INDIA PVT LTD
B-3, SIPCOT Industrial Growth Center, Vaipur Village, Oragadam -602105

Subject: Grant of Environmental Clearance (EC) to the proposed Project Activity under the provision of EIA Notification 2006-regarding

Sir/Madam,

This is in reference to your application for Environmental Clearance (EC) in respect of project submitted to the SEIAA vide proposal number SIA/TN/IND2/26805/2016 dated 01 Jun 2018. The particulars of the environmental clearance granted to the project are as below.

- | | |
|--|--|
| 1. EC Identification No. | EC22B000TN143116 |
| 2. File No. | 5051/2016 |
| 3. Project Type | Expansion |
| 4. Category | B |
| 5. Project/Activity including Schedule No. | N/A |
| 6. Name of Project | Proposed Expansion of Silicones and silicone derivatives from 1104 MT/M to 3029 MT/M from the unit of M/s. Momentive Performance Materials (India) Pvt. Ltd located at B-3, SIPCOT Industrial Growth Centre, Oragadam village, Sriperumpudur Taluk, Kanche |
| 7. Name of Company/Organization | MOMENTIVE PERFORMANCE MATERIAL INDIA PVT LTD |
| 8. Location of Project | Tamil Nadu |
| 9. TOR Date | 30 May 2017 |

The project details along with terms and conditions are appended herewith from page no 2 onwards.

Date: 19/07/2022

(e-signed)
Thiru.Deepak S.Bilgi
Member Secretary
SEIAA - (Tamil Nadu)

Note: A valid environmental clearance shall be one that has EC identification number & E-Sign generated from PARIVESH. Please quote identification number in all future correspondence.

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PARIVESH

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THIRU.DEEPAK S.BILGI, I.F.S.
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY-TAMILNADU

3rd Floor, Panagal Maaligai,
No.1, Jeenis Road, Saidapet,
Chennai - 600 015.
Phone No. 044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No.5051/EC/5(f)/100/2022 dated: 05.07.2022


To

The Authorised Signatory
M/s. Momentive Performance Materials (India) Private Limited.
No.B3, SIPCOT Industrial Growth Centre
Oragadam Village
Sriperumbudur Taluk
Kanchipuram District-602105

Sir,

Sub: SEIAA-TN – Environmental Clearance –Expansion of Silicones and Silicone Derivatives manufacturing facility from 1104MT/Month to 3029MT/Month by M/s. Momentive Performance Materials (India) Private Limited at No.B3, SIPCOT Industrial Growth Centre, Oragadam Village, Sriperumbudur Taluk, Kanchipuram District, Tamil Nadu – Category - "B1" and Schedule 5(f) - “Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)” under the EIA Notification, 2006 as amended – Issued – Regarding.


- Ref: 1. Earlier EC production capacity of 917MT/Month Obtained from MoEF & CC vide F.No.J-11011/603/2007-IA.II (I) Dated: 01.04.2008
2. Earlier EC production capacity of 917MT/Month to 1104MT/Month Obtained from MoEF & CC vide F.No.J-11011/518/2011-IA.II (I) Dated: 07.12.2012
3. Project proponent application submitted ToR to SEIAA-TN on 12.02.2016 for expansion of production capacity.


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4. ToR issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.5051/2016/8(b)/ToR-279/2016 dated: 30.05.2017
5. Online Proposal No. SIA/TN/IND2/26805/2016, dated: 01.06.2018
6. Proponent EIA report submitted to SEIAA-TN on
7. Minutes of the 123rd SEAC meeting held on 21.12.2018
8. Proponent reply dated: 19.08.2021
9. Minutes of the 261st SEAC meeting held on 07.04.2022
10. Minutes of the 266th SEAC meeting held on 27.04.2022
11. Minutes of the 511th SEIAA meeting held on 25.05.2022
12. Proponent reply dated: 20.06.2022
13. Minutes of the 529th SEIAA meeting held on 05.07.2022

This has reference to your application under reference 5th & 6th cited, wherein you have submitted proposal for obtaining Environmental Clearance for the Expansion of Silicones and Silicone Derivatives manufacturing facility from 1104MT/Month to 3029MT/Month by M/s. Momentive Performance Materials (India) Private Limited at No.B3, SIPCOT Industrial Growth Centre, Oragadam Village, Sriperumbudur Taluk, Kanchipuram District, Tamil Nadu under Item No. 5(f) – “Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)” & Category ‘B1’ of the Schedule to the EIA Notification, 2006.

S. No	Description	Details						
1.	Name of the Project	Expansion of Silicones and Silicone Derivatives manufacturing facility from 1104MT/Month to 3029MT/Month by M/s. Momentive Performance Materials (India) Private Limited at						
2.	Location	No.B3, SIPCOT Industrial Growth Centre, Oragadam Village, Sriperumbudur Taluk, Kanchipuram District, Tamil Nadu <u>Co-ordinates:</u> <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>12°52'27.41"N</td> <td>79°58'08.22"E</td> </tr> <tr> <td>12°52'25.86"N</td> <td>79°58'17.50"E</td> </tr> </tbody> </table>	Latitude	Longitude	12°52'27.41"N	79°58'08.22"E	12°52'25.86"N	79°58'17.50"E
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12°52'25.86"N	79°58'17.50"E							


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		12°52'19.71"N	79°58'18.79"E				
		12°52'19.76"N	79°58'10.49"E				
3.	Type of Project	Schedule 5(f) - Synthetic organic chemicals industry (dyes & dye intermediates; bulk drugs and intermediates excluding drug formulations; synthetic rubbers; basic organic chemicals, other synthetic organic chemicals and chemical intermediates)					
4.	Total Area	Total land available -6.11Ha (61107 Sq.m)					
		Description		Existing Area (Sq.m)	After Expansion - Area (Sq.m)		
		Main plant		14070	17042		
		Storage & Utilities		12140	12140		
		Greenbelt Area		20153	20369		
		Roads		3035	3035		
		Vacant Area		11709	8521		
		Total Area		61107 (15.10 acres)	61107(15.10 acres)		
5.	Cost of Project (INR)	Rs. 18 Crores (Expansion)					
6.	Details of Proposed Product	S.No	Existing Products	Production (MT/ Month)	S. No	Products after expansion	Production (MT/ Month)
		1	Silicone Fluids (Aminos/PDMS) (AB)n Quats	141 78	1	Silicones & Silicone Derivatives	2600
		2	Silicone Emulsions	156			
		3	Silicone Surfactants (UA/Personal care Blend)	243			
		4	Silicone Polymer Silicone Polymer & Elastomer (HCR) Octa Methyl Cyclo Tetra Siloxane (OMTCS)/	135 150			


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		Poly dimethyl siloxane (PDMS) - By products	49			
		HCR Gum - By products				
	5	UV Hard Coats	27			
	6	Silicone Sealant Repacking	125	2	Specialty Coatings	104
				3	Sealants/ Compounding	125
				4	Synthetic Resins	100
				5	Urethane Additives (Catalyst & Additives)	100
		Total	1104		Total	3029
7.	(i) TOR issued? (If yes then specify the details)	ToR issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.5051/2016/8(b)/ToR-279/2016 dated: 30.05.2017				
8.	a) Water requirement	Total water requirement – 125 kLD Fresh water requirement – 125 kLD Domestic water – 22 kLD Industrial-103 kLD For utilities (Process- 24 kLD, Boiler makeup- 28 KLD, Cooling tower makeup-45 kLD, off gas scrubbing system and other floor washings-6 kLD)				
	b) Source of water	SIPCOT				
9.	Sewage/ Effluent generation,	Effluent generation- 34 kLD ETP capacity-70 kLD 1. Bar Screen				


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	& treatment	<ol style="list-style-type: none"> 2. Collection tank 3. Equalization Tank 4. Flash mixer 5. Flocculator 6. Primary Settling Tank 7. Aeration tank 1 & 2 8. Secondary settling tank 9. Sludge Holding Tank 10. Sludge handing unit (Decanter) 11. Clarified Water Tank 12. Pressure sand filter 13. Activated Carbon Filter 14. UF System 15. RO (in 2 stages) 16. Mechanical Evaporator (2 stages) 17. Spray drier <p>Sewage generation-18 kLD STP Capacity-25 kLD</p> <ol style="list-style-type: none"> 1. Bar screen Chamber 2. Collection tank / Equalisation tank 3. SAFF reactor 4. Settling tank 5. Clarified water tank 6. Pressure sand filter 7. Activated carbon filter 8. Treated water tank
10.	Sewage/ effluent Mode of disposal	<p>Treated Sewage – 18 kLD for green belt. Treated effluent – 27.2kLD (R.O Permeate-23.8kLD, R.O Permeate-3.4kLD, Evaporation-6.8KLD)</p>


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11.	Quantity of Solid Waste generated per day (in Kgs), Mode of treatment and Disposal of Solid Waste	<table border="1"> <thead> <tr> <th>Description</th> <th>Existing quantity (TPA)</th> <th>Proposed quantity (TPA)</th> <th>Disposal Methods</th> </tr> </thead> <tbody> <tr> <td>STP Sludge</td> <td>2</td> <td>6</td> <td>Used manure at site</td> </tr> <tr> <td>Waste cotton boxes/ packing materials/ plastic covers</td> <td>20</td> <td>100</td> <td>Reuse, reselling to authorized agents</td> </tr> <tr> <td>Waste wooden palettes</td> <td>20</td> <td>100</td> <td>Reuse, reselling to authorized agents</td> </tr> <tr> <td>Total</td> <td>42</td> <td>206</td> <td></td> </tr> </tbody> </table>	Description	Existing quantity (TPA)	Proposed quantity (TPA)	Disposal Methods	STP Sludge	2	6	Used manure at site	Waste cotton boxes/ packing materials/ plastic covers	20	100	Reuse, reselling to authorized agents	Waste wooden palettes	20	100	Reuse, reselling to authorized agents	Total	42	206					
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		Discarded containers/ barrels/ liners contaminated with hazardous waste/ chemicals	400	400	Disposed to authorized recyclers
		Total	629.5	985.5	
13.	Power requirement	2100KW from TANGEDCO (After expansion) DG sets 2 nos of 700KVA			
14.	Air Pollution Control Measures (Stack)	Source of Air pollution	Control Measures	Size	
		Process Emissions – 4 Nos (Off gas system, Specility Plant – 2 Nos, Elastomer Plant – 2 Nos)	Blow down tank, scrubber, followed by stack	Stack Height 13 each	
		1.5 TPH Boiler (2 Nos)	HSD /LDO. Stack of adequate height provided	1 common Stack Height 30m	
		700 kVA DG set (2 Nos)	HSD. Stack of adequate height provided	Stack height 15m each	
		5 Heat transfer Furnace (HTF) (2 Nos)	HSD /LDO. Stack of adequate height provided	1 common Stack Height 30m	
		Spray drier attached to ME	Stack	Stack Height 10m	
		Quality Control Lab Local exhausts (2 Nos)	Wet scrubber	Stack Height 5m each	
15.	Details of man power	500 Nos (After expansion)			
16.	Details of Green Belt Area	20369Sq.m(After expansion)			


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17.	Details of Parking Area	2200 Sq.m.
18.	Provision for rain water harvesting	RWH pits -16 Nos RWH capacity-2043KL
19.	EMP Cost (INR)	Capital cost- Rs. 1 Crores (proposed) 10% of the EMP cost shall be spent annually as Recurring Cost.
20.	CER Cost	Rs. 40 Lakhs

Affidavit

I, Mr. Alagarsamy Perumalsamy, SITE LEADER of M/s. Momentive Performance Materials (India) Private Limited., has proposed the Expansion of the Silicones and Silicone derivatives manufacturing plant at B-3, SIPCOT Industrial growth center, Oragadam village, Sriperumbudur Taluk, Kancheepuram District, Tamil Nadu.

Commitment towards Production:

The manufacturing facility engaged in the production of Silicones and Silicone derivatives of about 3,029 MT/Month., I hereby undertake and commit that quantity of manufacturing Products post-expansion as follows,

S. No	Proposed Products,	MT/month
1	Silicone & Silicone Derivatives	2600
2	Speciality Coatings	104
3	Sealants / Compounding	125
4	Synthetic Resins	100
5	Urethane Additives (Catalyst & Additives)	100
Total (MT/month)		3029

Commitment towards Fresh Water Requirement:

The freshwater requirement to the tune of **125 KLD** for the Operational Scenario post Expansion of the project shall be sourced from SIPCOT. Based on the above Commitment, I hereby undertake and commit that the required water for the operation period will be obtained from the above authority.


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Commitment towards Disposal of treated wastewater:

Effluent water generated from the Production process will be treated separately in our ETP while sewage generated will be treated in an in-house STP. Treated Trade effluent of **27 KLD** will be reused for manufacturing activities. Treated sewage generated from the Domestic use of **18 KLD** will be utilized for Greenbelt development. We assure you, treated / untreated sewage / trade effluent will not be discharged to any water body / streams.

Commitment towards Disposal of Solid Waste:

The non-hazardous Solid waste generated during the manufacturing process is STP Sludge of 6 TPA will be used as manure for gardening inside the premises. Cotton boxes/Packing materials of about 100 TPA and Waste Wooden Palettes of about 100 TPA will be disposed of to the authorised scrap Dealer.

The Hazardous waste of spent oil of about 13.5 TPA, Spent Solvent of about 400 TPA and Empty barrels/containers/containers with contaminated with chemicals of about 400 TPA are disposed to TNPCB/CPCB authorised recyclers. The process residues of about 112 TPA will be disposed to TNWML, Gummidipoondi for incineration and the Chemical Sludge from wastewater treatment of about 60 TPA will be disposed to Tamilnadu waste management Ltd, Gummidipoondi. We will be disposing the solid waste as committed above without polluting the soil / ground water / adjacent lakes/ canals/ponds, etc.,.

Commitment towards Safety:

We assure that, we will obtain and maintain valid safety licenses from the concerned department for boiler, solvent/fuel/raw material storage areas, etc.,.

We assure that a detail report on the safety measures and health aspects including periodical audiometry, pulmonary lung function, etc. test reports once in a year for all the workers will be submitted to TNPCB.

Commitment towards Green Belt:

We assure to develop and maintain 33% of our allotted plot for Green Belt development.

Commitment towards CER:

Further, I am furnishing the commitment on CER activity as follows,

The proposed CER fund is intended to utilized for the following project specific activities in the span of next three years, which is made considering the environmental sustainability and importantly providing benefits to the incumbent and surrounding topography.


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S.No	Description	Outlay Allotted in INR Lakhs
1	Providing / improving basic infrastructures like Ladies Toilet, classrooms, sanitation facilities, Sanitary napkin dispenser, napkin incinerator, compound wall, Tree Plantation at Government Girls Schools in Sriperumpudur Taluk through Dreamz Foundation Trust (NGO), whom we have already engaged for doing similar activities under CSR for several years in community adjacent to our site.	35.00
2	Providing safe drinking water facility (RO Plant – 1000 ltr/hr capacity) at Vaipur village	5.00
	Total Outlay	40.00

Commitments towards Other Facilities:

We shall undertake to maintain the common facilities such as sewage treatment plant, effluent treatment plant, treated sewage disposal, solid waste disposal, green belt development, rainwater harvesting facility, environmental monitoring etc. will be managed by our Environmental Management cell.

Commitment signed by me on 12th July 2022, as an Authorized signatory of the project proponent before the SEIAA, Tamil Nadu.

Appraisal by SEAC:-

Proposed Expansion of Silicones and silicone derivatives from 1104 MT/M to 3029 MT/M at B-3, SIPCOT Industrial Growth Centre, Oragadam village, Sriperumpudur Taluk, Kanchepuram by M/s. Momentive Performance Materials (India) Pvt. Ltd for Environmental Clearance (SIA/TN/IND2/26805/2016, dated: 01.06.2018).

The proposal was placed for appraisal in this 266th meeting of SEAC held on 27.4.2022.

The details of the project furnished by the proponent are given in the website (parivesh.nic.in).

The SEAC noted the following:

1. The project proponent M/s. Momentive Performance Materials Pvt.Ltd has applied for seeking environmental clearance with EIA report to SEIAA-TN on 26.07.2018 for proposed expansion of Silicones and Silicone derivatives manufacturing plant by M/s. Momentive Performance Materials Pvt.Ltd located at B-3, SIPCOT Industrial Growth Centre, Oragadam Village, Sriperumbudur Taluk, Kancheepuram District.


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2. The project/activity is covered under Category "B1" of Item 5(f) "Synthetic Organic Chemical" of the Schedule to the EIA Notification, 2006.
3. The total site area is 61107 sq.mts (15.10 acres) and the built up area is 17042 sq.m.
4. First Environment Clearances was obtained from MoEF&CC for the production capacity of 917 MT/Month on 01.04.2008.
5. Second Environment Clearances was obtained from MoEF&CC for the expansion in the production capacity from 917 MT/Month to 1104 MT/Month on 07.12.2012.
6. The proponent has submitted the compliance report from the regional office, MoEF&CC, Chennai for the environment Clearances accorded by MoEF&CC on 07.12.2012.
7. The project proponent has applied and obtained Terms of References from SEIAA-TN for the expansion in the production capacity from 1104 MT/Month to 3029 MT/Month on 30.05.2017.
8. The proponent has applied along with EIA report with the compliance report of ToR to SEIAA-TN.


Earlier, this proposal was placed in the 123rd SEAC Meeting held on 21.12.2018. The proponent made a presentation about the project proposal. Based on the presentation made by the proponent and the documents furnished, the committee decided to defer the proposal for want of following details:

1. Concurrences order from the SIPCOT for the expansion capacity within the SIPCOT as per the Terms of Reference issued to the unit.
2. Water balance for the existing project and revised water balance for proposed project and after expansion of project(i.e. total water balance after expansion)
3. Iso Propyl Alcohol (IPA) handling details for existing, proposed and after expansion of project. How the used solvents are recovered & reused and disposed as spent solvent.
4. The proposed expansion is very less. Then, Why the domestic use of water is doubled for the proposed expansion (i.e from 11 KLD to 22 KLD) . The proponent shall clarify the same.
5. The detail about salt handling in the MEE shall be furnished.
6. Performance of the existing STP, ETP, Air pollution control measures and solid waste handling methodology shall be furnished.
7. Authenticated production detail for last 3years.


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8. Water requirement per unit or per kg of product shall be furnished.
9. Concern letter from SIPCOT for water supply for the existing and proposed activity.
10. Hydro Carbon and Volatile Organic Chemicals (VOC) monitoring data shall be furnished.
11. What are the pollutant present in the effluent and characteristics of the effluent?
12. Consolidated ROA of stack/AAQ monitoring data of TNPCB.
13. The proponent shall furnish the necessary NOC from the competent authorities to store and handle the various solvents (for both existing and proposed) in the unit premises.
14. The unit shall provide the detail of Hazardous waste disposal details for the last five years with authenticated proof.
15. Greenbelt development area with GPS Co-ordinates of all corners of the greenbelt area to compare the area of greenbelt mentioned in the plant layout. Also with the no. of species, name and suitability for the local area as per CPCB guidelines for green belt development.
16. Furnish the GPS Co-ordinates of all corners of the boundary of the site.
17. The unit shall furnish the adequacy report for the all the existing/proposed STP & ETP obtained from the reputed Institution like IIT /Anna University / NEERI or any other reputed government institutions.
18. The proponent shall furnish the detailed report for the solutions which are used or proposed to use (i.e both existing and proposed) in the scrubber to remove the toxic components present in the processes emission.
19. The proponent shall furnish the Report of Analysis of AAQ survey, stack survey, VOC monitoring conducted by TNPCB for the last 3years.
20. The proponent shall furnish the Report of Analysis of the inlet and outlet of STP and ETP for all the organic components, heavy metals and other standard parameters from the NABL accredited Lab.
21. Environmental Cell details shall be provided with Designation and Qualification.
22. Periodic health check up report about the silicone exposure and other chemicals which are used in the industry for the employees for the last 5 years shall be furnished.

The project proponent has furnished the reply vide letter dated 18.08.2021. The subject was again been placed in the 261st SEAC meeting held on 07.04.2022. During the meeting SEAC noted that, the EIA Co-coordinator was not available to present the project. Hence the SEAC decided to defer the proposal.


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The subject was again placed in this 266th meeting of SEAC held on 27.4.2022 for appraisal for seeking environmental clearance. During the meeting the PP has made the re presentation along with the above clarification raised by the 123rd SEAC meeting. Based on the presentation and document furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** for the above notings, subject to the following specific conditions in addition to normal conditions stipulated by MOEF&.CC:

1. The project proponent shall provide the Green belt area not less than 33.3% of the land area all along the periphery of the unit and maximum green belt shall be maintained in the down wind direction as reported. Selection of plant species shall **(As per Appendix-1)**.
2. The project proponent shall operate and maintain the existing Sewage treatment Plant of capacity 11 KLD and Effluent treatment plant of capacity 70 KLD effectively to meet out the standards prescribed by the CPCB/TNPCB.
3. Necessary permission letter for the supply of water shall be obtained from the competent authority before obtaining CTO from TNPCB.
4. The effluent generated from the process should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB/TNPCB.
5. The proponent shall ensure the zero-liquid discharge.
6. The proponent shall continuously operate and maintain adequate Air-pollution control measures for the process area.
7. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
8. The proponent shall obtain and maintain valid safety licenses for the concerned department for boiler, solvent/fuel/raw material storage areas etc.
9. The proponent shall ensure that the area earmarked for the boiler, further the proponent may submit the safety measures on the same to TNPCB before obtaining CTO.
10. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
11. The proponent shall periodically conduct and submit fire safety study, emergency evacuation plan, risk assessment study, occupational health safety study for the worst case scenario in regard to existing safety measures/standard operating procedures adopted for the process/equipment/utilities for operation & maintenance and the storage areas of products, raw


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- materials, solvent, fuel, etc. in the different operating zones of the plant at least once in a year to regularly identify safety fragile areas within the plant which requires regular monitoring and the proponent shall submit the same along with timeline for implementation of the said recommendations to the concerned departments.
12. A detail report on the safety measure and health aspects including periodical audiometry, pulmonary lung function etc. test reports once in a year for all the workers shall be submitted to TNPCB.
 13. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
 14. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020, the proponent shall adhere the EMP as committed.
 15. The CER cost is Rs. 40 lakhs and the amount shall be spent for activities of (1) Providing/Improving basic infrastructures like Ladies Toilet, classrooms, sanitation facilities, sanitary napkin dispenser, napkin incinerator, Compound wall, Tree plantation (**as per appendix-I**) at Govt Girls School in Sriperumbudur Taluk, through Dreamz Foundation Trust (NGO), (2) Providing safe drinking water facility RO Plant -1000 L/Hr capacity at Vaipur Village before obtaining CTO from TNPCB.


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Appendix - I
List of Native Trees Suggested for Planting

No	Scientific Name	Tamil Name	Tamil Name
1	<i>Aegle marmelos</i>	Vilvam	வில்வம்
2	<i>Adenaanthera pavonina</i>	Manjadi	மஞ்சாடி, ஆனைக்குன்றிமணி
3	<i>Albizia lebbek</i>	Vaagai	வாகை
4	<i>Albizia amara</i>	Usil	உசில்
5	<i>Bauhinia purpurea</i>	Mantharai	மந்தாரை
6	<i>Bauhinia racemosa</i>	Aathu	ஆத்தி
7	<i>Bauhinia tomentosa</i>	Iruvathi	இருவாத்தி
8	<i>Buchanania axillaris</i>	Kattuma	காட்டுமா
9	<i>Borassus flabellifer</i>	Parai	பனை
10	<i>Butea monosperma</i>	Murukkamararam	முருக்கமரம்
11	<i>Bobax coiba</i>	Ilavu, Sevvilavu	இலவு
12	<i>Calophyllum inophyllum</i>	Punnai	புன்னை
13	<i>Cassia fistula</i>	Sarakondrai	சரக்கொன்றை
14	<i>Cassia roxburghii</i>	Sengondrai	செங்கொன்றை
15	<i>Chloroxylon sweetenia</i>	Purasamaram	புரசு மரம்
16	<i>Cochlospermum religiosum</i>	Kongu, Manjalllavu	கோங்கு, மஞ்சள் இலவு
17	<i>Cordia dichotoma</i>	Naruvuli	நருவுளி.
18	<i>Creteva adansonii</i>	Mavalingum	மாவிளங்கம்
19	<i>Dillenia indica</i>	Uva, Uzha	உசா
20	<i>Dillenia pentagyna</i>	SiruUva, Sitruzha	சிறு உசா
21	<i>Diospyro sebenum</i>	Karungali	கருங்காலி
22	<i>Diospyro schloroxylon</i>	Vaganai	வாகணை
23	<i>Ficus amplissima</i>	Kalltchi	கல் இச்சி
24	<i>Hibiscus tiliaceou</i>	Aatrupoovarasu	ஆற்றுப்புலவக
25	<i>Hardwickia binata</i>	Aacha	ஆச்சா
26	<i>Holoptelia integrifolia</i>	Aayili	ஆயா மரம், ஆயிலி
27	<i>Lanea coromandelica</i>	Odhiam	ஒதியம்
28	<i>Lagerstroemia speciosa</i>	Poo Marudhu	பூ மருது
29	<i>Lepisanthus tetraphylla</i>	Neikottainaram	நெய் கொட்டடை மரம்
30	<i>Limonia acidissima</i>	Vila maram	விலா மரம்
31	<i>Litsea glutinos</i>	Pisinpattai	அரம்பா. பிசின்பட்டை
32	<i>Madhuca longifolia</i>	Illuppai	இலுப்பை
33	<i>Manilkara hexandra</i>	UlakkaiPaalai	உலக்கை பாலை
34	<i>Mimusops elengi</i>	Magizhamaram	மகிழமரம்
35	<i>Mitragyna parvifolia</i>	Kadambu	கடம்பு
36	<i>Morinda pubescens</i>	Nuna	நுணா
37	<i>Morinda citrifolia</i>	Vellai Nuna	வெள்ளை நுணா
38	<i>Phoenix sylvestre</i>	Eachai	சச்சமரம்
39	<i>Pongamia pinnat</i>	Pungam	புங்கம்


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40	<i>Premna mollissima</i>	Munnai	முன்னை
41	<i>Premna serratifolia</i>	Narununnai	நறு முன்னை
42	<i>Premna tomentosa</i>	Malaipoovarasu	மலை புவரசு
43	<i>Prosopis cinerea</i>	Vanni maram	வள்ளி மரம்
44	<i>Pterocarpus marsupium</i>	Vengai	வேங்கை
45	<i>Pterospermum canescens</i>	Vennangu, Tada	வெண்ணாங்கு
46	<i>Pterospermum xylocarpum</i>	Polavu	புலவு
47	<i>Puthranjiva roxburghii</i>	Karipala	கறிபாலா
48	<i>Salvadora persica</i>	Ugaa Maram	ஊகா மரம்
49	<i>Sapindus emarginatus</i>	Manipungan, Soapukai	மணிப்புங்கள் சோப்புக்காய்
50	<i>Saraca asoca</i>	Asoca	அசோகா
51	<i>Streblus asper</i>	Piray maram	பிராய் மரம்
52	<i>Strychnos nuxvomica</i>	Yetti	எட்டி
53	<i>Strychnos potatorum</i>	Therthang Kottai	தேத்தான் கொட்டை
54	<i>Syzygium cumini</i>	Naval	நாவல்
55	<i>Terminalia belleric</i>	Thandri	தான்றி
56	<i>Terminalia arjuna</i>	Ven marudhu	வெண் மருது
57	<i>Toona ciliata</i>	Sandhana vembu	சந்தன வேம்பு
58	<i>Thespesia populnea</i>	Puvarasu	புவரசு
59	<i>Walsuratrifoliata</i>	valsura	வால்குரா
60	<i>Wrightia tinctoria</i>	Veppalai	வேப்பாலை
61	<i>Pithecellobium dulce</i>	Kodukkapuli	கொடுக்காப்புளி

Discussion by SEIAA and the Remarks:-

The proposal was placed in the 511st Authority meeting held on 25.05.2022. The Authority after detailed discussions to call for the following additional particulars from the project proponent

- The proponent shall submit concurrence order of SIPCOT for the proposed expansion activity.
- The proponent shall submit safety measures and its monitoring measures provided for existing & expansion activity in the process area, raw material & semi finished/finished/solid waste/Hazardous waste storage areas to avoid untowards accidents.
- Details of spent solvent recovery process proposed with reference to expansion activity, if any.

The above details communicated to the project proponent and furnished reply submitted to SEIAA-TN on 20.06.2022.


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The proposal was placed in the 529st Authority meeting held on 10.06.2022. After detailed discussion, the Authority accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC in addition to the following condition.

1. As per the MoEF & CC Office Memorandum F. No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 & the proponent shall furnish the detailed EMP including CER activities (Rs. 40 lakhs) as recommended by the SEAC to TNPCB before obtaining CTE. All the EMP& CER activities proposed shall be carried out before obtaining CTO from TNPCB.
2. The Proponent shall store the raw materials within the threshold limit adhering to the guidelines of the Manufacture, Storage and Import of Hazardous Chemical Rules, 1989 as amended.
3. The project proponent shall provide & maintain adequate capacity STP, ETP with ZLD, & APC measures with treatment & disposal arrangements & adequate storage area for raw materials/solvent/Hazardous/solid wastes, as committed in EMP adhering to the mode of disposal & discharge standards prescribed by the CPCB/TNPCB.
4. The project proponent shall operate & maintain the STP & ETP with ZLD continuously & efficiently so as to comply with the discharge standards prescribed by the CPCB/TNPCB.
5. The project proponent shall utilize the treated sewage for green belt development & treated effluent for the process.
6. No untreated sewage, treated/untreated effluent shall be discharge inside & outside the project premises at any time.
7. The project proponent shall periodically monitor treated/untreated sewage, treated/untreated effluent, Noise levels & AAQ/Stack emission/VOC through the TNPCB laboratory and shall upgrade adequate mitigation measures, safety measures & monitoring mechanism as and when recommended by the competent authority.
8. The project proponent shall provide online/offline sensors/ analyzers for air quality parameters (AAQ/Stack emission), VOC, water quality parameters (sewage/Effluent) linked up to CAC/WQW websites of CPCB/TNPCB for continuous & effective monitoring as recommended by the CPCB/TNPCB before obtaining CTO and shall periodically calibrate the said sensors/ analyzers and submit report to TNPCB.
9. The proponent & the Industries to be in-housed shall periodically conduct and submit fire safety study, emergency evacuation plan, risk assessment study, occupational health safety


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study for the worst case scenario in regard to existing safety measures/standard operating procedures adopted for the process/ equipment/utilities for operation & maintenance and the storage areas of products, raw materials, solvent, fuel, etc. in the different operating zones of the plant at least once in a year to regularly identify safety fragile areas within the plant which requires regular monitoring and the proponent shall submit the same along with timeline for implementation of the said recommendations to the concerned departments.

10. The project proponent shall ensure that non - EIA attracting Industries to be in-housed shall provide adequate elevated closed area earmarked for collection, segregation, storage & disposal of wastes generated within the premises as per provisions of Solid Waste Management Rules, 2016, E-Waste (Management) Rules, 2016, Plastic Waste Management Rules, 2016 as amended, Bio-Medical Waste Management Rules, 2016 as amended, Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 as amended, Construction and Demolition Waste Management Rules, 2016, & Batteries (Management and Handling) Rules, 2001.
11. The project proponent shall develop & maintain the Green belt area not less than 33.3% of the land area all along the periphery of the proposed site with native species as recommended by SEAC.
12. The project proponent, their activities should not cause harm to the natural vegetation/water bodies and other natural resources.
13. The project proponent shall ensure the activities should not cause any damage to the soil and natural seed banks.
14. The project proponent shall provide medical facilities, possibly with a medical officer in the project site for continuous monitoring the health of construction workers during COVID and Post - COVID period.
15. The project proponent, there should be no Green House Gases (GHG) emissions. The result in temperature rise and leading to climate changes.
16. As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
17. Necessary permission letter for the supply of water shall be obtained from the competent authority before obtaining consent from TNPCB


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Validity:

The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14th September, 2006 as amended, with validity for Seven years from the date of issue of EC, subject to the compliance of the terms and conditions stipulated below:

(A) Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (incase of the presence of schedule-I species in the study area)
- iv. The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State pollution Control Board/ Committee.
- v. The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- vi. The Company shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules, 1989 as amended time to time. All transportation of Hazardous Chemicals shall be as per the Motor Vehicle Act (MVA), 1989

(B) Air quality monitoring and preservation:


- i. The project proponent shall install 24x7 continuous emission monitoring system at process stacks to monitor stack emission with respect to standards prescribed in Environment (Protection) Rules 1986 and connected to SPCB and CPCB online


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- servers and calibrate these system from time to time according to equipment supplier specification through labs recognised under Environment (Protection) Act, 1986 or NABL accredited laboratories.
- ii. The project proponent shall monitor fugitive emissions in the plant premises at least once in every quarter through labs recognised under Environment (Protection) Act, 1986.
 - iii. The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM10 and PM25 in reference to PM emission, and SO2 and NOx in reference to SO2 and NOx emissions) within and outside the plant area at least at four locations (one within and three outside the plant area at an angle of 120 each), covering upwind and downwind directions.
 - iv. To control source and the fugitive emissions, suitable pollution control devices shall be installed to meet the prescribed norms and/or the NAAQS. Sulphur content should not exceed 0.5% in the coal for use in coal fired boilers to control particulate emissions within permissible limits (as applicable). The gaseous emissions shall be dispersed through stack of adequate height as per CPCB/SPCB guidelines.
 - v. Storage of raw materials, coal etc shall be either stored in silos or in covered areas to prevent dust pollution and other fugitive emissions.
 - vi. National Emission Standards for Organic Chemicals Manufacturing Industry issued by the Ministry vide G.S.R. 608(E) dated 21st July, 2010 and amended from time to time shall be followed.
 - vii. The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be complied with

(C) Water quality monitoring and preservation:

- i. The project proponent shall provide 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 (applicable in case of the projects achieving ZLD)
- ii. As already committed by the project proponent, Zero Liquid Discharge shall be ensured and no waste/treated water shall be discharged outside the premises (applicable in case of the projects achieving the ZLD).


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- iii. The effluent discharge shall conform to the standards prescribed under the Environment (Protection) Rules, 1986, or as specified by the State Pollution Control Board while granting Consent under the Air/Water Act, whichever is more stringent.
- iv. Total fresh water requirement shall not exceed the proposed quantity or as specified by the Committee. Prior permission shall be obtained from the concerned regulatory authority/CGWA in this regard.
- v. Process effluent/any wastewater shall not be allowed to mix with storm water. The storm water from the premises shall be collected and discharged through a separate conveyance system.
- vi. The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and utilize the same for different industrial operations within the plant.
- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

(D) Noise monitoring and prevention:

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. 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.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time

(E) Safety, Public hearing and Human health issues:

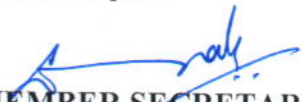
- i. Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.
- ii. The unit shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling. Fire fighting system shall be as per the norms.
- iii. The PP shall provide Personal Protection Equipment (PPE) as per the norms of Factory Act.
- iv. Training shall be imparted to all employees on safety and health aspects of chemicals handling. Pre-employment and routine periodical medical examinations for all


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- employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.
- v. Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
 - vi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
 - vii. 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

(F) Corporate Environment Responsibility:

- i. The project proponent shall comply with the provisions contained in this Ministry's OM vide F.No. 22-65/2017-IA.III dated 1stMay 2018, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for 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. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to be diverted for any other 5 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.


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- v. Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

(G) Waste management:

- i. Hazardous chemicals shall be stored in tanks, tank farms, drums, carboys etc. Flame arresters shall be provided on tank farm and the solvent transfer through pumps.
- ii. 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.
- iii. The company shall undertake waste minimization measures as below:-
 - a. Metering and control of quantities of active ingredients to minimize waste.
 - b. Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - c. Use of automated filling to minimize spillage.
 - d. Use of Close Feed system into batch reactors.
 - e. Venting equipment through vapour recovery system.
 - f. Use of high pressure hoses for equipment clearing to reduce wastewater generation

Air Environment

1. Stack emission levels should be stringent than the existing standards in terms of the identified critical pollutants.
2. CEMS may be installed in all large/medium red category industries (air polluting) and connected to SPCB and CPCB server.
3. Effective fugitive emission control measures should be imposed in the process, transportation, packing etc.
4. Transportation of materials by rail/ conveyor belt, wherever feasible.
5. Encourage use of cleaner fuels (pet coke/ furnace oil/ LSHS may be avoided).
6. Best Available Technology may be used. For example; usage of EAF/SAF/ IF in place of Cupola furnace. Usage of Supercritical technology in place of sub-critical technology.
7. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever feasible.
8. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.


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9. Assessment of carrying capacity of transportation load on roads inside the industrial premises.

Water Environment

1. Reuse/recycle of treated wastewater, wherever feasible.
2. Continuous monitoring of effluent quality/quantity in large and medium Red Category Industries (water polluting).
3. A detailed water harvesting plan may be submitted by the project proponent
4. Zero liquid discharge wherever techno - economically feasible.

Land Environment

1. Increase of green belt cover by 40% of the total land area beyond the permissible requirement of 33%, wherever, feasible for new projects.
2. Stipulation of greenbelt outside the project premises such as avenue plantation, plantation in vacant areas, social forestry, etc.
3. Dumping of waste (fly ash, slag, red mud, etc.) may be permitted only at designated locations approved by SPCBs/ PCCs.
4. More stringent norms for management of hazardous waste. The waste generated should be preferably utilized in co processing.
5. Monitoring of compliance of EC conditions may be submitted with third party audit every year.
6. The % of the CER may be at least 1.5 times the slabs given in the OM dated 01.05.2018 for SPA and 2 times for CPA in case of Environmental Clearance.

(H) SPECIFIC CONDITIONS:


- (i) It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.
- (ii) "Consent for Establishment" shall be obtained from Tamil Nadu Pollution Control Board and a copy of the same shall be furnished to the SEIAA, Tamil Nadu before start of project construction activity at the site.
- (iii) "Consent to Operate" should be obtained from the Tamil Nadu pollution Control Board before the start of the operation of the project and copy shall be submitted to the SEIAA-TN.


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- (iv) The implementation of Environmental Management Plan in regard to treatment and disposal of sewage & Effluent, Solid waste Management, Hazardous - Waste Management, and CSR Activities should be carried out, as proposed and committed. Regular monitoring should be carried out during operation phases.
- (v) The residue collected from the evaporator shall be documented by maintaining proper register and it should be made available at the time of inspection.
- (vi) Adequate dust extraction system such as Ducting with dust extracting arrangement wherever required shall be established to achieve Occupational –health standards and ambient air quality standards.
- (vii) The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
- (viii) Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
- (ix) The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
- (x) The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
- (xi) The proponent shall dispose Hazardous Waste generated as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016. Spent oil from D.G sets should be stored in HDPE drums in an isolated covered facility and disposed off through TNPCB registered recyclers.
- (xii) The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
- (xiii) The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e waste (Management & Handling), Rules 2016 as amended.
- (xiv) The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.
- (xv) The industry shall conduct air sampling at least once in six months for the general core parameters (PM₁₀, PM_{2.5}, SO_x, NO_x) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.


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- (xvi) Regular monitoring on the air quality, water quality and noise on the selected locations in and around the project site as mentioned in the EMP report for creating base line data shall be continued and records shall be maintained.
- (xvii) A separate environment and safety management cell with qualified staff shall be set up before establishment of the facility and shall be retained throughout the lifetime of the industry, for implementation of the stipulated environmental safeguards.
- (xviii) The Green belt area already developed within the project area shall be properly maintained.
- (xix) The green belt of 5-10 m width shall be developed in more than 33% of the total project area, mainly along the plant periphery, in downward wind direction, and along road sides etc. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
- (xx) The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
- (xxi) The proponent shall ensure effective risk management strategy regarding confined space management to avoid risk while handling raw materials, products in the process area and storage.
- (xxii) The energy sources for lighting purposes shall preferably be LED based.
- (xxiii) The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
- (xxiv) Risk cum disaster management plan should be in placed in the industry premises at all time.
- (xxv) Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.
- (xxvi) The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.
- (xxvii) The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/ Honb'le High Court of Madras.
- (xxviii) All the assurances given in EIA and EMP shall be adhered strictly.


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- (xxix) Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
- (xxx) Sufficient funds should be provided for Disaster management.
- (xxxii) The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
- (xxxiii) The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous waste like spent carbon, Chemical sludge, used or spent oil are being kept.
- (xxxiv) The Project Proponent shall carry out safety audit in the different operating zones of the plant at least once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.
- (xxxv) The Project Proponent shall prepare a code of practice for safe operation for educating the safety standards to the work force deployed in the plant through appropriate training by the concerned experts.
- (xxxvi) As the plant operation involves the sensitive processing, the medical officer and the supporting staff involved in the health centre activities shall be trained in occupational health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
- (xxxvii) The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.
- (xxxviii) The EMP cost and operation and maintenance cost shall be deposited in a nationalized bank by opening separate account and the head wise expenses statement shall be submitted to TNPCB with a copy to SEIAA annually.
- (xxxix) There should be no threat to Bio diversity due to the operation of the industry.
- (xl) The flora & fauna present in and around the project site should be get affected due to the activity as reported.
- (xli) The Project Proponent has to provide rain water harvesting collection tank capacity with Recharging pit in order to recover and reuse the rain water during normal rains.
- (xlii) The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.


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- (xlii) The project proponent shall carry out risk assessment process for all the operations involved in the plant and a suitable risk management plan showing the contours of sensitive zones should be prepared.
- (xliii) The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.
- (xliv) The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.

(I) GENERAL CONDITIONS:-

- i. This Environmental Clearance shall not be cited to relax any other rules applicable to this project.
- ii. **The Project Proponent should advertise at least in two local newspapers widely circulated, one of which shall be in the vernacular language of the locality concerned, within 7 days of the issue of the Environmental Clearance informing that the project has been accorded environmental clearance and a copy of the clearance letter is available with TNPCB.**
- iii. **A copy of the Environmental Clearance shall be sent by the project proponent to concerned local body and local NGO, if any from whom suggestions/representatives, if any were received while processing the proposal.**
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The Environmental Clearance shall also be put on the website of the company.
- vi. No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- vii. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.


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- viii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- ix. The implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional office of MoEF & CC at Chennai, TNPCB and CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.
- x. Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the Regional office of MoEF & CC, GOI, at Chennai, TNPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public.
- xi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xii. Proper house-keeping and cleanliness must be maintained within and outside the plant.
- xiii. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.
- xiv. The overall noise levels in and around the plant area shall be kept well within the standards prescribed for by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (day time) and 70 dBA (night time).
- xv. A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.
- xvi. The requisite amount earmarked towards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA report. The funds so provided shall not be diverted for any other purposes.
- xvii. The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF & CC,

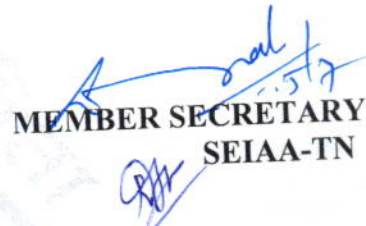

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- GOI at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.
- xviii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent 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 conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xix. Environmental Clearance is being issued without prejudice to the action initiated under Environment (Protection) Act, 1986 or any court case pending or any other court order shall prevail.
- xx. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxi. The SEIAA/SEAC or any Competent Authority may suitably add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF located at Chennai.
- xxii. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
- xxiii. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- xxiv. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- xxv. The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.
- xxvi. 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 Public Liability Insurance Act, 1991, along with their


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amendments ,draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957, National Commission for protection of Child Right Rules, 2006 and rules made there under and also any other orders passed by the Hon'ble Supreme Court of India/Hon'ble High Court of Madras and any other Courts of Law relating to the subject matter.

xxvii. Any appeal against this environmental clearance shall lie with the Hon'ble National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.


MEMBER SECRETARY
SEIAA-TN

Copy to:

1. The Principal Secretary to Government, Environment & Forests Dept, Govt. of Tamil Nadu, Fort St. George, Chennai - 9.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
4. The APCCF (C), Regional Office, Ministry of Environment & Forest (SZ), 34, HEPC Building, 1st & 2nd Floor, Cathedral Garden Road, Nungambakkam, Chennai - 34
5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi - 110 003.
6. The District Collector, Kanchipuram District.
7. Stock File.