



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

To,

The ED

CETEX PETROCHEMICALS LTD

Cetex Petrochemicals Limited, Cetex road, Sathangadu and
 Chinnasekkadu Village, Manali, Chennai. -600032

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/IND2/36147/2007 dated 22 Jul 2019. The particulars of the environmental
 clearance granted to the project are as below.

- | | |
|---|---|
| 1. EC Identification No. | EC22B021TN184691 |
| 2. File No. | 6831 |
| 3. Project Type | Expansion |
| 4. Category | B1 |
| 5. Project/Activity including
Schedule No. | 5(f) Synthetic organic chemicals industry
(dyes & dye intermediates; bulk |
| 6. Name of Project | Proposed Increase in production capacity
of Methyl Ethyl Ketone (MEK) &
Secondary Butyl Alcohol (SBA) and
proposed additional production of new
products namely Methyl Iso Butyl Carbinol
(MIBC) and Phe |
| 7. Name of Company/Organization | CETEX PETROCHEMICALS LTD |
| 8. Location of Project | Tamil Nadu |
| 9. TOR Date | 14 Nov 2007 |

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

Date: 19/05/2022

(e-signed)
 Tmt.P.RAJESWARI,IFS
 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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**TMT. P. RAJESWARI, I.F.S.,
MEMBER SECRETARY**

**STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY - TAMIL NADU**

3rd Floor, Panagal Maaligai,
No.1 Jeemis Road, Saidapet,
Chennai-15.
Phone No.044-24359973
Fax No. 044-24359975

ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No. 6831/5(f)/EC - 95/2019 dated: 18.04.2022

Sir/Madam,

Sub: SEIAA-TN- Environmental Clearance- Proposed Expansion of production of Methyl Ethyl Ketone and Secondary Butyl Alcohol & Proposed production of Methyl Iso Butyl Carbinol, Phenyl Propyl Alcohol and Mixed Alcohols production capacity from existing 24050 TPA to 46050 TPA (after expansion) by M/s. Cetex Petrochemicals Limited at S.F.No. 268, 269, 270, 271, 272 & 273, S.F No. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8, & 79/9 Sathangadu & Chinnasekkadu Village, Tiruvottiyur Taluk Thiruvallur 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-Issued-Regarding.

- Ref: 1. Terms of Reference issued by MoEF &CC vide Letter No.I-11011/1113/2007-IA-II(I) dated 08.10.2018.
2. Proponent EIA report submission to SEIAA-TN on 21.05.2019.
3. Minutes of the 132nd meeting of SEAC held on 25.07.2019.
4. Proponent reply dated: 19.11.2019.
5. Minutes of the 139th meeting of SEAC held on 23.11.2019.


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6. Minutes of the 148th meeting of SEAC held on 13.03.2020
7. Proponent reply dated: 30.07.2020.
8. Minutes of the 166th meeting of SEAC held on 30.07.2020.
9. Site inspection by Sub-committee dated: 22.10.2020.
10. Minutes of the 186th meeting of SEAC held on 21.11.2020.
11. Proponent reply dated: 20.11.2020.
12. Minutes of the 209th meeting of SEAC held on 09.04.2021.
13. Minutes of the 444th meeting of SEIAA held on 07.05.2021.
14. Proponent letter dated 03.07.2021.
15. Minutes of the 218th meeting of SEAC held on 09.07.2021.
16. Minutes of the 452nd meeting of SEIAA held on 09.08.2021.
17. Letter to GoI/MoEF&CC, New Delhi vide Lr.No.SEIAA-TN/F.No.6831/2019 dated: 17.08.2021, 27.09.2021, 05.10.2021.
18. Proponent letter dated 01.12.2021, 07.04.2022 & 19.04.2022.
19. Minutes of the 500th meeting of SEIAA held on 18.04.2022.

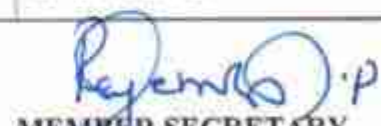
This has reference to your application dated 21.05.2019 applied to SEIAA-TN and subsequent communication on the above mentioned subject by M/s. Cetex Petrochemicals Limited for the Proposed expansion of Methyl Ethyl Ketone and Secondary Butyl Alcohol & Proposed production of Methyl Iso Butyl Carbinol, Phenyl Propyl Alcohol and Mixed Alcohols production capacity from 24050 TPA to 46050 TPA at S.F.No. 268, 269, 270, 271, 272 & 273, S.F No. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8, & 79/9 Sathangadu & Chinnasekkadu Village, Tiruvottiyur Taluk Thiruvallur 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 based on the Information submitted by you which are extracted below:

1. In response to the application, Terms of Reference (ToR) was issued by MoEF & CC vide Letter No. J-11011/1113/2007-IA-II (I) dated 08.10.2018.


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2. The proponent has submitted the EIA report to SEIAA-TN online portal (SIA/TN/IND2/36147/2007) on 15.05.2019.
3. The proponent has submitted the hard copy of the EIA report along with processing fee to SEIAA-TN on 21.05.2019.

S. No.	Description	Details				
1.	(i) Name of the Project: (ii) Date of Application:	Expansion production of Methyl Ethyl Ketone and Secondary Butyl Alcohol & Proposed production of Methyl Iso Butyl Carbinol, Phenyl Propyl Alcohol and Mixed Alcohols by M/s. Cetex Petrochemicals Limited at Sathangadu & Chinnasekkadu Village, Ambattur Taluk, Thiruvallur District, Tamil Nadu. 21.05.2019				
2.	Name of Sector: Schedule No(in the EIA Notification,2006)	Schedule S.No. 5(f) of Category "B" – Synthetic Organic Chemicals industry				
3.	New Project/ Expansion	Expansion				
4.	Name of the Applicant/Project Proponent	M/s. Cetex Petrochemicals Limited				
5.	Project Location & Coordinates	S.F.Nos. 268, 269, 270, 271, 272 & 273 of Sathangadu Village & S.F.Nos. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8 & 79/9 of Chinnasekkadu Village, Ambattur Taluk, Tiruvallur District, Tamil Nadu <u>Coordinates:</u> <table><tr><td>Latitude</td><td>Longitude</td></tr><tr><td>13°09'6.50.78"N</td><td>80°15'46.56"E</td></tr></table>	Latitude	Longitude	13°09'6.50.78"N	80°15'46.56"E
Latitude	Longitude					
13°09'6.50.78"N	80°15'46.56"E					


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		13°09'07.38"N	80°16'10.49"E																																																																						
		13°08'57.24"N	80°16'7.00"E																																																																						
		13°09'1.11"N	80°15'46.23"E																																																																						
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6.	Production	<table><tr><th>S.No</th><th>Name of the product</th><th>Quantity (Existing) (TPA)</th><th>Quantity (Proposed) (TPA)</th><th>Capacity after expansion (TPA)</th></tr><tr><td>1</td><td>Methyl Ethyl Ketone</td><td>10000</td><td>5000</td><td>15000</td></tr><tr><td>2</td><td>Secondary Butyl Alcohol</td><td>12000</td><td>10000</td><td>22000</td></tr><tr><td>3</td><td>Methyl Iso Butyl Carbinol</td><td>-</td><td>5000</td><td>5000</td></tr><tr><td>4</td><td>Phenyl Propyl Alcohol</td><td>-</td><td>1000</td><td>1000</td></tr><tr><td>5</td><td>Mixed Alcohol</td><td>-</td><td>1000</td><td>1000</td></tr><tr><td>6</td><td>Cinnamic Alcohol</td><td>1080</td><td>-</td><td>1080</td></tr><tr><td>7</td><td>Anisyl Alcohol</td><td>276</td><td>-</td><td>276</td></tr><tr><td>8</td><td>Styrallyl Alcohol</td><td>228</td><td>-</td><td>228</td></tr><tr><td>9</td><td>Styrallyl Acetate</td><td>150</td><td>-</td><td>150</td></tr><tr><td>10</td><td>Oximone</td><td>20</td><td>-</td><td>20</td></tr><tr><td>11</td><td>Phenyl Ethyl Alcohol</td><td>96</td><td>-</td><td>96</td></tr><tr><td>12</td><td>Tertiary Butyl Cyclohexyl Acetate</td><td>200</td><td>-</td><td>200</td></tr><tr><td colspan="2">Total</td><td>24050</td><td>22000</td><td>46050</td></tr></table>	S.No	Name of the product	Quantity (Existing) (TPA)	Quantity (Proposed) (TPA)	Capacity after expansion (TPA)	1	Methyl Ethyl Ketone	10000	5000	15000	2	Secondary Butyl Alcohol	12000	10000	22000	3	Methyl Iso Butyl Carbinol	-	5000	5000	4	Phenyl Propyl Alcohol	-	1000	1000	5	Mixed Alcohol	-	1000	1000	6	Cinnamic Alcohol	1080	-	1080	7	Anisyl Alcohol	276	-	276	8	Styrallyl Alcohol	228	-	228	9	Styrallyl Acetate	150	-	150	10	Oximone	20	-	20	11	Phenyl Ethyl Alcohol	96	-	96	12	Tertiary Butyl Cyclohexyl Acetate	200	-	200	Total		24050	22000	46050	
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Total		24050	22000	46050																																																																					
7.	Total Plot Area	207360.92 m ² (51.23 Acres)																																																																							
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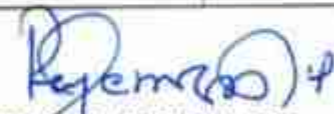
			waste storage area				
		3	Green belt	6.87	10.04	16.91	33.01
		4	Roads	2.36	2.4	4.76	9.29
		Total Utilized Area		14.71		30.76	60.05
		5	Open area	36.52	16.05	20.47	39.95
		Total Extent		51.23			100
8.	Land use Classification as per Record	Industrial Area					
9.	Project Cost (Expansion)	Rs. 42 Crore					
10.	EMP Cost(O&M)	Capital Cost: Rs. 290 Lakhs Recurring Cost: Rs.17.2 Lakhs per annum					
11.	Distance from Protected areas/Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries.	Moratorium imposed on the Manali industrial area was lifted vide O.M.No.J-11013/5/2010-1A.II(1) dated 17.09.2013.					
12.	Raw material details						
	S.No	Raw Materials	Quantity (in tons)		Source	Mode of Transportation	
			Existing	Proposed			
	SBA & MEK						
	1	C4 Mix (2-Butene)	26400	18000	CPCL, Manali	Pipe Line	
	2	98% Sulphuric Acid	22700	15500	Indian manufacturer/Trader	Road Tanker	
	3	Caustic Flakes	250	170	Indian manufacturer/Trader	Road Tanker	
	4	Hydrochloric acid	90	60	Indian manufacturer/Trader	Road Tanker	
	MIBC						
	1	Methyl Isobutyl Ketone (MIBK)	-	6000	Import	Ship / Road Tanker	


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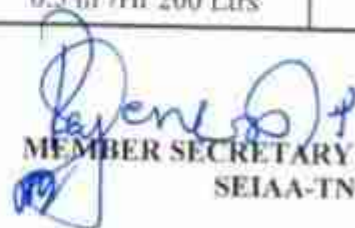
	2	Hydrogen	-	200	Indian manufacturer/Trader	Road Truck
	PPA					
	1	Cinnamaldehyde	-	1250	Import	Ship / Road Tanker
	2	Hydrogen	-	50	Indian manufacturer/Trader	Road Truck
	MIXED ALCOHOL					
	1	Secondary Butanol (SBA)	-	600	Self	Self
	2	Methyl Isobutyl Carbinol (MIBC)	-	400	Self	Self
13.	Manufacturing Process 1. This plant is engaged in the production of Petrochemicals & Fine chemicals for full filling the demand in Indian market. 2. Raw material received from the Feed Preparation Unit of Chennai Petroleum Corporation Limited. (CPCL) with the butene content of minimum 70% and free of Buta-Diene and Iso-Butene. 3. The chemical reaction for the hydration of n-butenes to SBA takes place in several reaction steps esterification, hydrolysis, neutralization and purification. 4. Methyl isobutyl ketone (MIBK) & Hydrogen are the raw materials required for the synthesis of Methyl isobutyl carbinol (MIBC) using nickel based catalyst followed by hydrogenation and catalyst separation. 5. Process operation involves conversion of Secondary Butyl Alcohol (SBA) into Methyl Ethyl Ketone (MEK) stages includes MEK synthesis and MEK purification. 6. Cinnamaldehyde and Hydrogen are the raw materials used for Phenyl propyl alcohol using nickel based catalyst followed by hydrogenation and catalyst separation. 7. Mixed Alcohol is a mixture of Secondary Butyl Alcohol (SBA) and Methyl Iso Butyl Carbinol (MIBC) blended in a proprietary proportion based on customer's needs 8. The product after quality testing is transferred to product storage tanks. 9. The product from the storage tank is also packed in drums/totes as per the requirement and mainly transported in tankers to customers.					


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14.	Total Water Requirement: Existing - 845 KLD, After Expansion - 1115 KLD Fresh water requirement: Existing - 782 KLD, After Expansion - 1018.6 KLD Recycled/condensate within the plant: Existing - 63 KLD, After Expansion - 96.4 KLD																																																																									
		<table><tr><th>S. No</th><th>Requirement</th><th>Existing (KLD)</th><th>Proposed (KLD)</th><th>After Expansion (KLD)</th></tr><tr><td>A.</td><td>Domestic</td><td>20</td><td>2</td><td>22</td></tr><tr><td>B.</td><td>DM plant</td><td></td><td></td><td></td></tr><tr><td></td><td>Process Plant</td><td>96</td><td>52</td><td>148</td></tr><tr><td></td><td>Boiler Make up</td><td>105</td><td>40</td><td>145</td></tr><tr><td></td><td>Regeneration waste</td><td>20</td><td>14</td><td>34</td></tr><tr><td></td><td>Total</td><td>221</td><td>106</td><td>327</td></tr><tr><td>C.</td><td>Cooling tower</td><td>604</td><td>162</td><td>766</td></tr><tr><td colspan="2">Fresh Water (A+B+C)</td><td>845</td><td>270</td><td>1115</td></tr><tr><td>D.</td><td>Recyclable water</td><td></td><td></td><td></td></tr><tr><td></td><td>RO Permeate</td><td>52</td><td>26.6</td><td>78.6</td></tr><tr><td></td><td>Condensate (ME)</td><td>11</td><td>6.8</td><td>17.8</td></tr><tr><td colspan="2">Recycled Water (D)</td><td>63</td><td>33.4</td><td>96.4</td></tr><tr><td colspan="2">Total water requirement (Fresh water - Recycled water)</td><td>782</td><td>236.6</td><td>1018.6</td></tr></table>			S. No	Requirement	Existing (KLD)	Proposed (KLD)	After Expansion (KLD)	A.	Domestic	20	2	22	B.	DM plant					Process Plant	96	52	148		Boiler Make up	105	40	145		Regeneration waste	20	14	34		Total	221	106	327	C.	Cooling tower	604	162	766	Fresh Water (A+B+C)		845	270	1115	D.	Recyclable water					RO Permeate	52	26.6	78.6		Condensate (ME)	11	6.8	17.8	Recycled Water (D)		63	33.4	96.4	Total water requirement (Fresh water - Recycled water)		782	236.6	1018.6
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Source of water		CMWSSB (Kodungaiyur Tertiary Treatment Reverse Osmosis plant)																																																																								
15.	Sewage generation, treatment and disposal	Existing STP Capacity: 20 KLD Sewage Generation (after expansion): 22 KLD Proposed to use the Existing STP by increasing the operational hours to 22 hours of operation at a flow rate of 1.0 cum/hr. The treated water to be reused for greenbelt development <table><tr><th>STP Components</th><th>Size</th><th>Quantity</th></tr><tr><td>Collection Tank</td><td>3.15 m dia. X 1.20 m</td><td>1</td></tr><tr><td>Bar Screen</td><td>0.5m x 0.5 m</td><td>1</td></tr><tr><td>Raw Sewage transfer pump</td><td>1.0 m³/hr @ 12 mwc</td><td>2 (1W+1S)</td></tr><tr><td>Air Blower</td><td>40 m³/hr @ 0.5 Kg/cm²</td><td>2 (1W+1S)</td></tr><tr><td>Coarse/Fine Diffusers</td><td>90 mm dia/1000 mm long</td><td>1 LOT</td></tr><tr><td>Media for Aeration tank</td><td>185 mm x 45 mm ht</td><td>4m³</td></tr><tr><td>Settling tank Feed well</td><td>315 mm dia x 1200 mm ht</td><td>1</td></tr></table>			STP Components	Size	Quantity	Collection Tank	3.15 m dia. X 1.20 m	1	Bar Screen	0.5m x 0.5 m	1	Raw Sewage transfer pump	1.0 m ³ /hr @ 12 mwc	2 (1W+1S)	Air Blower	40 m ³ /hr @ 0.5 Kg/cm ²	2 (1W+1S)	Coarse/Fine Diffusers	90 mm dia/1000 mm long	1 LOT	Media for Aeration tank	185 mm x 45 mm ht	4m ³	Settling tank Feed well	315 mm dia x 1200 mm ht	1																																														
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		Sludge transfer Pump	0.5 m ³ /hr @ 12mwc	1																												
		Chlorine dosing pump	0- 4 lph	1																												
		Chlorine dosing Tank	50 lit	1																												
		Filter Feed pump	1.0 m ³ /hr @ 32 mwc	2 (1W+1S)																												
		Pressure Sand filter	0.3 m dia x 1.3 m HOS	1																												
		Activated Carbon Filter	0.3 m dia x 1.3 m HOS	1																												
		MSEP TANKS																														
		• Aeration Tank	2.4x2.4x3.5m																													
		• Settling Tank	0.8x1.3x2.8m	1																												
		• Clarified Water tank	0.8x1.1x2.6m																													
		Electro Magnetic Flow Meter	1 m ³ /hr	2																												
16.	Effluent generation and disposal	Existing: 70 KLD After Expansion: 108 KLD UASB, Aeration, UF, RO module III & Mechanical Evaporator Stage III & IV to be installed for the proposed expansion. The treated water to be reused for processing.																														
		<table><tr><th>Source</th><th>Existing (KLD)</th><th>Proposed (KLD)</th><th>After Expansion (KLD)</th></tr><tr><td>Cooling Tower Blowdown</td><td>20</td><td>12</td><td>32</td></tr><tr><td>Boiler Blowdown</td><td>10</td><td>2</td><td>12</td></tr><tr><td>Process effluent</td><td>20</td><td>10</td><td>30</td></tr><tr><td>DM plant regeneration</td><td>20</td><td>14</td><td>34</td></tr><tr><td>Total</td><td>70</td><td>38</td><td>108</td></tr></table>	Source	Existing (KLD)	Proposed (KLD)	After Expansion (KLD)	Cooling Tower Blowdown	20	12	32	Boiler Blowdown	10	2	12	Process effluent	20	10	30	DM plant regeneration	20	14	34	Total	70	38	108						
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Total	70	38	108																													
17.	ETP Details	Existing ETP capacity – 70 KLD																														
		<table><tr><th>S.No</th><th>Description</th><th>Dimensions (in metres)</th><th>Nos</th></tr><tr><td>1</td><td>Bar Screen chamber</td><td>0.5m x 1.25m x 0.5m</td><td>1</td></tr><tr><td>2</td><td>Equalization tank</td><td>3m x 3m x 3.5m (3 + 0.5m FB)</td><td>1</td></tr><tr><td>3</td><td>Raw effluent transfer pump</td><td>2.0 m³/hr 12mWC</td><td>2</td></tr><tr><td>4</td><td>Flash mixer</td><td>0.5m x 0.5m x 1.2m</td><td>1</td></tr><tr><td>5</td><td>Lime preparation tank</td><td>500 LTRS</td><td>1</td></tr><tr><td>6</td><td>Lime dosing system</td><td>0.5 m³/Hr 200 Ltrs</td><td>1</td></tr></table>	S.No	Description	Dimensions (in metres)	Nos	1	Bar Screen chamber	0.5m x 1.25m x 0.5m	1	2	Equalization tank	3m x 3m x 3.5m (3 + 0.5m FB)	1	3	Raw effluent transfer pump	2.0 m ³ /hr 12mWC	2	4	Flash mixer	0.5m x 0.5m x 1.2m	1	5	Lime preparation tank	500 LTRS	1	6	Lime dosing system	0.5 m ³ /Hr 200 Ltrs	1		
S.No	Description	Dimensions (in metres)	Nos																													
1	Bar Screen chamber	0.5m x 1.25m x 0.5m	1																													
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5	Lime preparation tank	500 LTRS	1																													
6	Lime dosing system	0.5 m ³ /Hr 200 Ltrs	1																													


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7	Flocculant dosing system	0-4 lph/50 Ltrs	1
8	Flocculator	0.8m x 0.8m x 1.5m	1
9	Polymer dosing system	0-4 lph / 50 Ltrs	1
10	Lamella clarifier	1.5m x 2.1m	1
11	Sludge transfer pump	1.0 m ³ /hr 10mWC	1
12	Clarified water tank	3 KL	1
13	UASB Feed pump	2.0 m ³ /hr 12mWC	2
14	UASB Reactor	2.85m x 2.85m x 4.5m	1
15	Aeration tank	6.0 x 4 x 4 (0.5m FB)	1
16	Air blower	150 m ³ /hr 0.4mWC	2
17	Secondary settling tank	1.5m x 1.5m x 2.5m (+0.4 FB)	1
18	Sludge return pump	1.0 m ³ /hr 10mWC	1
19	Filter feed tank	10 KL	1
20	Hypo dosing tank	50 Ltrs	1
21	Filter feed pump	0-4 LPH	1
22	Dual media filter	φ500 x 1300mm Hos	1
23	Bag filter	3.0 m ³ /hr 50 micron	1
24	UF system	3.0 m ³ /hr	2
25	UF permeate tank	5 KL	1
26	Organic dosing pumps	24 LPH @ 25mWC	1
27	Organic dosing tank	100 Ltrs	1
28	Hypo dosing tank	100 Ltrs	1
29	Hypo dosing pump	20 LPH @ 25mWC	1
30	UF backwash pump	7.5 m ³ /hr 15mWC	1
31	RO feed pump	5 m ³ /hr @ 25mWC	2
32	Antiscalent dosing tank	50 Ltrs	1
33	Antiscalent dosing pump	4 LPH	1
34	Antioxidant dosing tank	50 Ltrs	1
35	Antioxidant dosing pump	4 LPH	1
36	Acid dosing tank	50 Ltrs	1
37	Acid dosing pump	4 LPH	1
38	Micron cartridge filter I	5 m ³ /hr, 5 micron	1
39	High pressure pump I	5 m ³ /hr, 45.7 bar	2


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40	RO module-I	8" x 4 Ele long	2
41	RO reject tank	5 KL	1
42	RO permeate tank	5 KL	1
43	Sludge drying bed	1.5m x 1.5m x 1.2m	4
44	CIP tank	300 Ltrs	1
45	CIP pump	5 m ³ /hr @ 2.5 bar	1
46	CIP cartridge filter	5 m ³ /hr @ 5 micron	1
47	Evaporator calendria	650 ltr/hr	2
48	Solar pan	20m x 18m x 1m	2

18. Hazardous waste Management

S. No	Name of the Process	Name of the process waste (Category No)	Annual Generation T/Y (Existing)	Annual Generation T/Y (Proposed)	Waste Disposal
1	Industrial operation using mineral / synthetic oil as lubricant in hydraulic system	5.1 Used/Spent Oil	1600 L/ Year	2000 L/ Year	Collection, Storage & disposal to TNPCB/CPCB Authorized recyclers
2	Petro Chemical Process and Catalytic Operations	1.6 Spent Catalyst and molecular sieves	1 T / 5 year	2 T / 5 year	Collection, Storage & disposal as landfill TSDF, Gummidipoondi
3	Purification and Treatment of exhaust air, water and waste water	35.3 Chemical sludge from waste water treatment plant	2 T / Year	2.5 T / Year	Collection, Storage & disposal as landfill TSDF, Gummidipoondi

Other solid waste generation

S.No	Nature of Solid Waste	Quantity	Unit	Mode of Disposal
1	STP sludge	4	Kg/day	Used as Manure
2	Bio degradable Waste (Food and Garbage)	40	Kg/day	Biogas Plant and fuel used for canteen
3	Non-Bio degradable Waste (Stationary, Scrap and Packaging Waste)	30	Kg/day	Authorized Venders / scrap material collected and sold to authorized recyclers


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19.	Stack emission Details: (All the stacks attached to process units, Boilers, captive power plant, D.G. Sets, (kg/hr)			
	S. No	Sources of Emission	APC Measures Provided	Stack Details
				Dimension (Dia. in mm) Height from GL (in Meter)
	1	Multi fuel Boiler/Hot oil heaters	Running only as standby	750 30
	2	Relief headers , Balance headers	Flare recovery system	600 36
	3	Exhaust of 1500 KVA DG - Existing	Stack	200 30
	4	Wood fired boiler- 4 T capacity	Wet chamber	750 30
	5	Bio Mass fuel Boiler – 8T capacity and Thermic heater 20,00,000 K.Cals.	Dust collector	1100 30
	6	Bio Mass Boiler – 22 T capacity and Thermic heater 20,00,000 K.Cals.	Electro Static Precipitator	2500 35
	7	Exhaust of 2000 KVA DG - Proposed	Stack	200 30
	II	Fugitive/Noise Emission	Type of emission	Control measures
	7	DG set 1500 KVA - Existing	Noise	In built acoustic barrier -
	8	DG set 2000 KVA - Proposed	Noise	In built acoustic barrier -
20.	Power requirement	0.95 MW (Existing) 0.7 MW (Proposed) 1.65 MW (After Expansion) Source: TANGEDCO		
21.	Documents Enclosed	EIA Report. ToR Compliance with related documents in Annexure.		
22.	Storm Water Management	- Storm water drains have been provided along the facility to ensure that this is totally separated from process effluent. This will minimize runoff of the contaminated water to the land surrounding the site. - Runoff from roof top area will be collected by means of down take pipes and will be collected in rain water storage sump.		


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		The surface runoff is diverted to the channel provided along the site boundary and discharged in the external storm water drain.
23.	Rain Water Harvesting	6 No's of rain harvesting pits are available and has proposed to construct additional 6 No's with proper storm water drain for expansion. The Roof top drains are linked with Rain water harvesting sump. The Dimension of the sump is 12m x 5m x 2m. Total Capacity – 120 Cu.m.
24.	Green Belt Development	10117 Sq.m (Existing) 58315 Sq.m (Proposed) 68432.34 Sq.m (After Expansion, 16.91 Acres, 33.01% of total land area)
25.	CER details	1.68 Crore

The Proponent has furnished affidavit in Hundred Rupees stamp paper attested by the Notary stating that

I, S. Gowthaman, Executive Director, M/S. Cetex Petrochemical Limited at S.F. No. 268, 269, 270, 271, 272 & 273, Sathangadu village, Ambattur Taluk, Thiruvallur District and S.F. No. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8, & 79/9, Chinnasekkadu Village, Manali Industrial Area, Ambattur Taluk, Thiruvallur District, Tamil Nadu have proposed to increase production capacity of Methyl Ethyl Ketone (MEK) from 10000 TPA to 15000 +PA & Secondary Butyl Alcohol (SBA) from 12000 TPA to 22000 TPA and additional production of new products namely Methyl Iso Butyl Carbinol (MIBC) 5000 TPA and Phenyl Propyl Alcohol (PPA) 1000 TPA & Mixed Alcohol (1000 TPA). An application submitted by us seeking Environmental Clearance for proposed activity under the EIA Notification, 2006 is under scrutiny in the Authority. I am furnishing the following undertaking to the Authority.

I / We Swear that

1. Cetex Petrochemical Limited at S.F. No. 268, 269, 270, 271, 272 & 273, Sathangadu village, Ambattur Taluk, Thiruvallur District and S.F. No. 67 / 7, 67 / 8, 67 / 9, 67 / 10, 74 / 1, 75 / 4, 75 / 5, 76 / 1, 76 / 2, 77 / 1, 77 / 2, 77 / 3, 77 / 4, 77 / 5, 77 / 6, 77 / 7, 77 / 8, 78 / 1, 78 / 2, 78 / 3, 79 / 1, 79 / 2, 79 / 3, 79 / 4, 79 / 5, 79 / 6, 79 / 7, 79 / 8, & 79 / 9, Chinnasekkadu


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Village, Manali Industrial Area, Ambattur Taluk, Thiruvallur District, Tamil Nadu has proposed to increase production capacity of Methyl Ethyl Ketone (MEK) from 10000 TPA to 15000 TPA & Secondary Butyl Alcohol (SBA) from 12000 TPA to 22000 TPA and additional production of new products namely Methyl Iso Butyl Carbinol (MIBC) 5000 TPA and Phenyl Propyl Alcohol (PPA) 1000 TPA & Mixed Alcohol (1000 TPA).

2. The total water requirement after expansion will be 115 KLD(1018.4 KLD fresh from CMWSSB + 96.4 KLD recycled within the plant), which will be met from CMWSSB Board. Based on the above commitment, I hereby undertake and commit that required water for the entire operation period will be obtained from the above Authority, before commissioning the project or before obtaining CTO from the competent authority, whichever is earlier. I shall commission the project, only after obtaining approval for the required water supply for the whole project as committed by the competent authority.
3. The Sewage will be treated in STP with a capacity of 20 KLD with 20 hours of operation and to cater the quantity generated after expansion the operating hours will be increased to 22 hours. As a result, existing STP will achieve adequacy to treat the sewage generated after expansion. The Effluent generation after the proposed expansion will be 108 KLD which will be treated in UASB, Aeration, UF, RO module III, ME stage III & IV.
4. The Bio-degradable waste (Food and Garbage) of 40 Kg/ day will be disposed to Municipality and food waste will be handed over to pig farming as feed. A Bio-Gas Plant capable of generating gas from the food waste is in operation on trial basis. The Gas generated in this plant is used for moderate heating purpose in Canteen. The Non Biodegradable waste (Stationary, Scrap and packaging waste) will be disposed to Authorized Vendors and scrap material collected and sold to authorized recyclers. The STP sludge of 4 Kg/ day will be used as manure. The Treated water from STP will be used for gardening. The Hazardous waste of Used or Spent Oil—1.6 KL, Spent catalyst from process — 1.0 MT and chemical sludge from waste water treatment plant of 2.0 MT from the plant will be collected, stored & disposed to TNPCB/CPCB Authorized recyclers.


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5. I/ We fully assure that 68432Sq.m (Existing green belt area is 10117Sq.m & Proposed expansion of green belt area is 58315Sq.m) (33.01 % of total plot area) will be allotted for green belt development within the premises and will not be used for any other activities.
6. As per the MoEFCC Office Memorandum F.NO. 22-65/2017-IA.III dated : 30.09.2020 & 20.10.2020 we furnish the detailed EMP mentioning all the activities as proposed in the CER in the following Table.

s.No	Infrastructure	Capital cost	Recurring cost
1	Air Pollution Control	80 Lakhs	2 Lakhs/Month
2	Effluent Treatment Plant (ETP) & Rain water harvesting measures	120 Lakhs	10 Lakhs/ Month
3	Environment Monitoring and Management	40 Lakhs	2 Lakhs/Month
4	Solid and Hazardous Waste Management (Membership & Facility development)		0.2 Lakhs/Month
5	Energy Management	20 Lakhs	
6	Occupational Health & Safety	20 Lakhs	2 Lakhs/Month
7	Green belt Development	10 Lakhs	1 Lakhs/Month
8	Corporate social responsibility (Promotion of education, feeding the needy and old aged people, Combating covid 19)	18.75 Lakhs	
Total		308.75 Lakhs	17.20 Lakhs

7. I/ We also commit that our proposed project area does not encroach any water bodies / reserve forests / wetlands
8. I/ We also commit that there will not be any activity carried out in the proposed expansion area and the area is vacant. In this regard, a photograph of the proposed project area taken on the 7th day of April 2022 is enclosed. It truly depicts the status of the site as on this day.


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As authorized signatory of this project, I am aware that I can be prosecuted under relevant Act and Rules, if I am not ensuring the adherence of the above commitments.

Appraisal by SEAC:-

The proposal was placed in the 218th meeting of SEAC held on 09.07.2021. Proposed Production Capacity Expansion of Methyl Ethyl Ketone and Secondary Butyl Alcohol & Proposed production of Methyl Iso Butyl Carbinol, Phenyl Propyl Alcohol and Mixed Alcohols at S.F.No. 268, 269, 270, 271, 272 & 273, Sathangadu Village and S.F.No. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8, & 79/9, Chinnasekkadu Village of Ambattur Taluk, Thiruvallur District, Tamil Nadu by M/s. Cetex Petrochemicals Limited – For Environment Clearance.

(SIA/TN/IND/36147/2007, dated: 15.05.2019)

The proposal was placed in the 166th Meeting of SEAC held on 30.07.2020. The details of the project furnished by the proponent are available in the website (parivesh.nic.in).

The SEAC noted the following:

1. The Proponent, M/s. Cetex Petrochemicals Limited has applied for Environmental Clearance for the Proposed Petrochemical industry at S.F.No. 268, 269, 270, 271, 272 & 273, Sathangadu Village and S.F.No. 67/7, 67/8, 67/9, 67/10, 74/1, 75/4, 75/5, 76/1, 76/2, 77/1, 77/2, 77/3, 77/4, 77/5, 77/6, 77/7, 77/8, 78/1, 78/2, 78/3, 79/1, 79/2, 79/3, 79/4, 79/5, 79/6, 79/7, 79/8, & 79/9, Chinnasekkadu Village of Ambattur Taluk, Thiruvallur District, Tamil Nadu.
2. The project/activity is covered under Category "B" of Item 5(i) "Synthetic Organic Chemicals" of the Schedule to the EIA Notification, 2006.

Based on the presentation made by the proponent, the SEAC noted that the project proponent has not furnished adequate details, the details furnished by the proponent was not in order and also presentation is not satisfied. Hence, the project proponent was requested to submit a detailed report on the following points (Sl.No.i to iv) along with the stoichiometric balance with equation for the all the reactions along with the waste generation from the process with respect to air, water etc.


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- I. The Proponent shall provide the exact man-power requirement for the proposed expansion project and justify the same.
- II. The proponent shall provide the best Production Technology and Control Measures provided for the project site as the area falls under the critically polluted area.
- III. The Proponent shall carry out the study on the fugitive emission including VOC emissions for the existing and expected emission from the proposed activity with a help of modeling study and provide the technology adopted for the reduction of the fugitive emission in general and VOC emissions in particular.
- IV. The Proponent shall provide the ZLD management plan for the proposed expansion project.

on receipt of the above details, being expansion project SEAC decided to make a non-the-spot inspection to assess the present status of the site by the sub-committee constituted by the SEAC.

The Project proponent submitted the additional details sought above vide letter dated 04.09.2020 and the sub-Committee inspected the unit on 22.10.2020.

The proposal was placed in the 186th Meeting of SEAC held on 21.11.2020. The SEAC noted that the Project proponent has not furnished the requisite details/documents for the preparation of Inspection report.

Under the above circumstances, the SEAC decided that, the SEIAA shall obtain and furnish the following details from the Proponent so as to prepare the Inspection report:

1. Date of establishment of the unit along with supporting document.
2. First consent order of the unit issued by TNPCB along with other additional details pertaining to the unit.

The Project proponent furnished the above said details to SEIAA-TN on 20.11.2020.

The subject was once again placed in the 209th SEAC meeting held on 09.04.2021.

The MS, TNPCB informed the committee that CEPI score has been ascertained by TNPCB for last 4 seasons and submitted to NGT, CPCB and MoEF & CC etc.,

After detailed discussion the committee noted that, Since, the project site falls in the critically polluted area, as per MoEF & CCOM dated 30th December 2019, "In respect of the cases


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where applications were received but not yet taken for SEAC/UTEAC (Class III) may be transformed to Ministry for dealing at central level as per the OM dated 31st October 2019". Hence SEAC decided that the proposal shall be appraised at central level.

The subject was placed in the 444th SEIAA meeting held on 07.05.2021. SEIAA after detailed deliberation, SEIAA decided to communicate the decision taken by the SEAC in its 209th SEAC meeting held on 09.04.2021 to the project proponent.

In this connection, the proponent vide letter dated 03.07.2021 has requested the SEIAA to consider the proposal in the SEIAA-TN itself for Environmental Clearance stating that since their proposals was already appraised by the SEAC stating that the OM dated 30.12.2021 which states as follows.

"In respect of the cases where partial deliberations or complete deliberations were made by the SEAC or UTEAC, as the case may be, the deliberation may be completed keeping in view of the additional conditions by the SEAC or UTEAC, as the case may be, and sent to the ministry for comments. If the comments were not received within 15 days from the communication, may be deemed as accepted and disposed based on the recommendations of SEAC"

The Hon'ble Supreme Court vide order dated 22.10.2020 in the matter of Gujarat Chambers of Commerce and Industry Vs Central Pollution Control Board & Anr., has imposed a stay on the operation of the impugned order of the NGT in O.A.No.1038/2018 dated 19.08.2019.

In the view of above, the subject was once again placed in the 218th SEAC meeting held on 09.07.2021. SEAC after detailed deliberation, SEAC decided to recommend the project proposal for grant of Environmental Clearance subject to the following conditions, in addition to standard conditions, stipulated by the MoEF & CC:

1. The project proponent shall operate and maintain the Sewage treatment Plant and Effluent treatment plant of adequate capacity effectively to meet out the standards prescribed by the CPCB.
2. The project proponent shall not discharge any treated or untreated sewage/effluent from the plant.


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3. The project proponent shall provide and maintain elevated and closed area with leak detection system for storage/handling of raw materials including solvents, products, intermediate products and also for provision of STP/ETP to ensure no leaching of the above in the storm water/rain water within the premises considering highest rainfall data.
4. The project proponent shall operate and maintain adequate air pollution control measures with stack height as per CPCB norms for process/point source emissions and fugitive emission sources as committed to satisfy the AAQ/SM/ANL standards prescribed by the TNPCB/CPCB time to time.
5. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits prescribed by the competent authority time to time.
6. The project proponent shall maintain the Greenbelt area not less than 33% of the land area all along the periphery of the unit and maximum greenbelt shall be maintained in the down wind direction as reported. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
7. The proponent shall provide and maintain adequate nos. of VOC monitors/leak detection system with alarm system in the process and fuel/ solvent storage and handling areas.
8. The proponent shall explore The proponent shall provide and maintain adequate safety measures for the process area and raw material/solvent/fuel storage and handling area as per the guidelines/SOP issued by the competent authorities time to time so as avoid untoward accidents.
9. The proponent shall maintain adequate safety distance for the solvent/fuel storage area and the boiler as per the guidelines/SOP issued by the competent authorities time to time so as avoid untoward accidents.
10. The proponent shall provide maximum display board regarding safety/emergency preparedness plan all over the project site and shall conduct periodical safety induction classes to the employees and contract labours.
11. It is necessary to be carried out safety audit in the different operating zones of the plant atleast once in a year and the same shall be considered as base for reviewing the unsafe conditions during the plant safety meeting.


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12. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
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. Necessary permission letter for the supply of water shall be obtained from the competent authority before obtaining consent from TNPCB.
15. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
16. A detail report on the safety measure and health aspects of the workers shall be submitted.
17. As per the MoEF & CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 & 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER and furnish the same before placing the subject to SEIAA.
18. The recommendation for the issue of "Environmental Clearance" is subjected to the final outcome of the Hon'ble Supreme Court vide order dated 22.10.2020 in the matter of civil appeal Dy. No. 19271/2020 in the matter of Gujarat Chambers of Commerce and Industry Vs Central Pollution Control Board & Anr., imposed a stay on the operation of the impugned order of the Hon'ble National Green Tribunal in O.A.No.1038/2018 dated 19.08.2019.

Discussion by SEIAA and the Remarks:-

The proposal was placed in the 500th meeting of Authority held on 18.04.2022. Authority noted the following:

1. The Proponent, M/s. Cetex Petrochemicals Limited has applied for Environment Clearance to SEIAA-TN on 21.05.2019 for the Production Capacity Expansion of MEK and SBA & Proposed production of MIBC, PPA & Mixed Alcohol at Sathangadu & Chinnasekkadu Village, Manali, Chennai, Tamil Nadu.


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2. The project/activity is covered under Category "B" of Item 5(f) "synthetic organic chemicals Industry Projects" of the Schedule to the EIA Notification, 2006.
3. In the minutes of the 218th meeting of SEAC held on 09.07.2021, SEAC after detailed deliberation, SEAC decided to recommend the project proposal for grant of Environmental Clearance subject to inter alia the following condition:

As per the MoEF & CC Office Memorandum dated 30.12.2019 stating that,

"In respect of the cases where partial deliberations or complete deliberations were made by the SEAC or UTEAC, as the case may be, the deliberation may be completed keeping in view of the additional conditions by the SEAC or UTEAC, as the case may be, and sent to the ministry for comments. If the comments were not received within 15 days from the communication, may be deemed as accepted and disposed based on the recommendations of SEAC"

In view of the above, the Authority vide minutes of 452nd meeting of SEIAA dated 09.08.2021 decided to request the Member Secretary, SEIAA to communicate the SEAC minutes to the GoI/MoEF & CC, New Delhi. The Member Secretary, SEIAA shall put up the agenda after 15 days from the communication, and correspondence /suggestions /comments received if any shall be put up in the forthcoming Authority Meeting.

Subsequently based on the minutes of 452nd meeting of SEIAA held on 09.08.2021, a letter was communicated to GoI/MoEF&CC, New Delhi vide Lr.No.SEIAA-TN/F.No.6831/2019 dated: 17.08.2021, despatched on 18.08.2021. And also a reminder letter was communicated to GoI/MoEF&CC, New Delhi vide Lr.No.SEIAA-TN/F.No.6831/2019 dated: 27.09.2021 despatched on 06.10.2021 (mail sent on 05.10.2021). However, no reply has been received from MoEF&CC in this regard till date. Meanwhile, the Project Proponent vide letter dated 18.02.2022 has requested for communication in this regard from SEIAA.

The proposal was again placed in the 500th meeting of Authority held on 18.04.2022. After detailed discussions, the Authority accepted the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC in addition to the following conditions.

1. In case any communication is received from MoEF&CC on a later date, SEIAA is empowered to withdraw this EC and act as required.

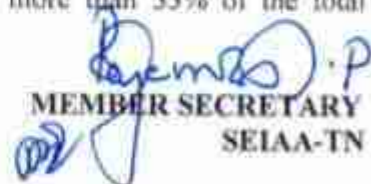

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2. The project proponents strictly follow the conditions as per O.M No. F.No. 22-23/2018-1A.II (Pt) MoEF & CC Dated: 31.10.2019.
3. This Environmental Clearance is subject to the outcome of final judgment issued by Hon'ble National Green Tribunal (PB) in O. A. No. 1038 of 2018
4. Industry shall provide ETP/APC measures as committed.
5. Industry shall also operate ETP & APC measures and to provide appropriate monitoring mechanism to ensure continuous operation.
6. At no point of time the Industry should not discharge treated/untreated effluent inside / outside the premises.
7. The proponent shall ensure the zero-liquid discharge.
8. The project proponent shall maintain the Green belt area not less than 33% of the land area all along the periphery of the unit and maximum green belt shall be maintained. Selection of plant species shall be as per the CPCB guidelines in consultation with the District Forest officer
9. The project proponent, their activities should not cause harm to the natural vegetation/water bodies and other natural resources
10. The project proponent shall ensure the activities should not cause any damage to the soil and natural seed banks
11. 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.
12. The project proponent, there should be no Green House Gases (GHG) emissions. The result in temperature rise and leading to climate changes.

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

- i) The Green belt shall be developed with 5 m width from the periphery of the unit as reported. The green belt developed should be more than 33% of the total


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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.

- ii) In the event of expansion of plant operation and engagement of more contractual work force in the employment, it is necessary to 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.
- iii) Since the unit is intending to go for expansion, it is recommended to 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.
- iv) 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.
- v) Since the plant goes for expansion it is also necessary to 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.
- vi) The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
- vii) The construction and operation of the project shall no way impact the nearby water bodies.
- viii) The proponent shall ensure that no treated/untreated sewage shall be discharged in to the nearby water bodies either directly or indirectly.
- ix) There should not be any adverse impact of the project on the nearby water bodies.
- x) The proponent shall ensure that no solid waste shall be dumped into the nearby water bodies either directly or indirectly.
- xi) Effective odor control measures should be imposed in the process, transportation, packing etc.


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- xii) The development of Green belt in the unit premises shall be in consultation with local DFO.
- xiii) 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.
- xiv) The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous wastes are being kept.
- xv) 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.
- xvi) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- xvii) 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, (in case of the presence of schedule-I species in the study area)
- xviii) 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.
- xix) The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- xx) 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.


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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 servers and calibrate these system from time to time according to equipment supplier specification through labs recognized 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 recognized 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 NO_x in reference to SO₂ and NO_x 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.


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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).
- 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.

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.


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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 project proponent 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 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

Corporate Environment Responsibility:

- i) 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


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in this regard shall be submitted to the MoEF & CC as a part of six-monthly report.

- ii) 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.
- iii) 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.
- iv) Self environmental audit shall be conducted annually. Every three years third party environmental audit shall be carried out.

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.


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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.
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.


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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, hence the project proponent shall spent 4% of CER activities should be carried out for the development of infrastructure facilities to the Government school, located in Manali.
7. This Environmental Clearance is subject to the outcome of final judgment issued by Hon'ble National Green Tribunal (PB) in O. A. No. 1038 of 2018

SPECIFIC CONDITIONS:

1. 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.
2. "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.
3. "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.
4. 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.
5. The residue collected from the evaporator shall be documented by maintaining proper register and it should be made available at the time of inspection.
6. 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.


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7. The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
8. Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
9. The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
10. The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
11. 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.
12. The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
13. 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.
14. The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.
15. The industry shall conduct air sampling at least once in six months for the general core parameters (PM_{10} , $PM_{2.5}$, 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.
16. 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.
17. 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.
18. The Green belt area already developed within the project area shall be properly maintained.


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19. 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.
20. The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
21. 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.
22. The energy sources for lighting purposes shall preferably be LED based.
23. The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
24. Risk cum disaster management plan should be in placed in the industry premises at all time.
25. 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.
26. 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.
27. 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.
28. All the assurances given in EIA and EMP shall be adhered strictly.
29. Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
30. Sufficient funds should be provided for Disaster management.
31. The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.


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32. 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.
33. 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.
34. 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.
35. 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.
36. The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.
37. The project proponent strictly follow the conditions as per O.M No. F.No. 22-23/2018 -IA.II (Pt) MoEF & CC Dated: 31.10.2019.
38. The proponent shall provide VOC monitoring system and should continuously monitor the VOC and ensure that VOC levels are within permissible limits, and the same shall be connected to TNPCB.
39. The EMP cost of Rs.290 lakhs and operation and maintenance cost Rs. 17.2 lakhs 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.
40. There should be no threat to Bio diversity due to the operation of the industry.
41. The Project Proponent has to provide rain water harvesting collection tank to the capacity of 120 cu.m in order to recover and reuse the rain water during normal rains.
42. 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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43. 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.
44. The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.

GENERAL CONDITIONS:-

1. This Environmental Clearance shall not be cited to relax any other rules applicable to this project.
2. 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.
3. 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.
4. The project proponent shall monitor the criteria pollutants level namely; PM10, SO2, NOx (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.
5. The Environmental Clearance shall also be put on the website of the company.
6. 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.
7. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.
8. 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


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the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.

9. 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.
10. 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.
11. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
12. Proper house-keeping and cleanliness must be maintained within and outside the plant.
13. 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.
14. 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).
15. 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.
16. 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.


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17. 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, 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.
18. 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 & CC by e-mail.
19. 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.
20. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
21. 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 & CC located at Chennai.
22. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
23. 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.
24. 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


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Environment (Protection) Act, 1986.

25. The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.
26. 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 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.
27. 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.


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Copy to:-

1. The Additional Chief Secretary to Government, Environment & Forests Department, Govt. of Tamil Nadu, Fort St. George, Chennai - 600 009.
2. The Chairman, Central Pollution Control Board, Parivesh Bhavan, CBD Cum-Office Complex, East Arjun Nagar, New Delhi 110032.
3. The Member Secretary, Tamil Nadu Pollution Control Board, 76, Mount Salai, Guindy, Chennai - 600 032.
4. The APCCF(C), Regional Office of MoEF & CC, 34, HEPC Building, 1 & 2 nd Floors, Cathedral Garden Road, Nungampakkam, Chennai - 600 034.
5. Monitoring Cell, I A Division, Ministry of Environment & Forests, Paryavaran Bhavan, CGO Complex, New Delhi 110003.
6. The District Collector, Tiruvallur District
7. Stock File.

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