



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

To,

The Managing Director  
JS AUTO CAST FOUNDRY INDIA PRIVATE LIMITED  
Plot No. KK5, KK6, KK7, SIPCOT Industrial Growth Centre, Perundurai,  
Erode -638052

**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/IND/57111/2020 dated 26 Nov 2021. The particulars of the environmental  
clearance granted to the project are as below.

- |   |   |
|---|---|
| 1. EC Identification No.                      | EC22B008TN180091  |
| 2. File No.                                   | 7464/2020   |
| 3. Project Type                               | Expansion   |
| 4. Category                                   | B1  |
| 5. Project/Activity including<br>Schedule No. | 3(a) Metallurgical industries (ferrous &<br>non ferrous)  |
| 6. Name of Project                            | Proposed expansion of foundry unit<br>located at SIPCOT Industrial Growth<br>Centre, Perundurai, Erode District |
| 7. Name of Company/Organization               | JS AUTO CAST FOUNDRY INDIA<br>PRIVATE LIMITED   |
| 8. Location of Project                        | Tamil Nadu  |
| 9. TOR Date                                   | 17 Dec 2020   |

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

Date: 19/06/2022

(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.*

*This is a computer generated cover page.*

PARIVESH

(Pro-Active and Responsive Facilitation by Interactive,  
and Virtuous Environmental Single-Window Hub)





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

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

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

**ENVIRONMENTAL CLEARANCE (EC)**

**Letter No. SEIAA-TN/F.No.7464/EC/3(a)/99/2022 dated: 17.06.2022**

To

The Managing Director  
M/s. JS Auto Cast Foundry India Private Limited  
Plot No.KK5, KK6, KK7  
SIPCOT Industrial Growth Centre  
Perundurai  
Erode - 638 052

Sir,

Sub: SEIAA-TN – Environmental Clearance – Proposed expansion of existing foundry for production of Grey & SG Iron castings from 1814 TPM to 6000 TPM by M/s. JS Auto Cast Foundry India Private Limited at Survey Nos. Plot No. KK5, KK6, KK7 (S.F. No.127pt, 128pt, 131 & 132pt of Ingur Village & 213pt, 214pt & 215pt of Perundurai Village), SIPCOT Industrial Growth Centre, Perundurai Taluk, Erode District, Tamil Nadu – Category - "B1" and Schedule 3(a) – “Metallurgical Industries (Ferrous & Non - Ferrous)” under the EIA Notification, 2006 as amended – Issued – Regarding.

- Ref: 1. Application for Terms of Reference dated: 26.02.2020  
2. ToR issued by SEIAA-TN vide Lr.No.SEIAA-TN/F.No.7464/3(a)/ToR-877/2020  
Dated: 12.03.2021  
3. Public hearing conducted on 18.10.2021  
4. Online Proposal No. SIA/TN/IND2/57111/2020, dated: 26.11.2021 (for EC)  
5. EIA report submitted to SEIAA-TN on 21.01.2022

  
MEMBER SECRETARY  
SEIAA-TN  


6. Minutes of the 251<sup>st</sup> SEAC meeting held on 04.03.2022
7. Proponent reply dated: 19.04.2022
8. Minutes of the 276<sup>th</sup> SEAC meeting held on 21.05.2022
9. Minutes of the 521<sup>st</sup> SEIAA meeting held on 17.06.2022

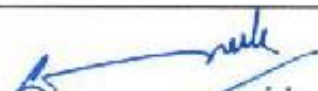

\*\*\*\*\*

This has reference to your application under reference 4<sup>th</sup> & 5<sup>th</sup>, wherein you have submitted proposal for obtaining Environmental Clearance for the Proposed expansion of existing foundry for production of Grey & SG Iron castings from 1814 TPM to 6000 TPM by M/s. JS Auto Cast Foundry India Private Limited at Survey Nos. Plot No. KK5, KK6, KK7 (S.F. No.127pt, 128pt, 131 & 132pt of Ingur Village & 213pt, 214pt & 215pt of Perundurai Village), SIPCOT Industrial Growth Centre, Perundurai Taluk, Erode District, Tamil Nadu – Category - "B1" and Schedule 3(a) – “ Metallurgical Industries (Ferrous & Non - Ferrous)” under the EIA Notification, 2006 as amended.

S. No	Description	Details															
1	Name of the Project	Proposed expansion of existing foundry for production of Grey & SG Iron castings from 1814 TPM to 6000 TPM by M/s. JS Auto Cast Foundry India Private Limited.															
2	Location	Plot No. KK5, KK6, KK7 (S.F. No.127pt, 128pt, 131 & 132pt of Ingur Village & 213pt, 214pt & 215pt of Perundurai Village), SIPCOT Industrial Growth Centre, Perundurai Taluk, Erode District, Tamil Nadu <u>Co-ordinates:</u> Latitude: 11°14'14.88"N to 11°14'26.33"N Longitude: 77°33'24.27"E to 77°33'36.04"E															
3	Type of Project	Schedule 3(a) – “ Metallurgical Industries (Ferrous & Non - Ferrous)” of EIA Notification 2006															
4	Total Area	Total land area -11.012Ha <table border="1"> <thead> <tr> <th>Particulars</th> <th>Existing (area in Ha)</th> <th>After expansion (area in Ha)</th> </tr> </thead> <tbody> <tr> <td>Builtup area</td> <td>1.504</td> <td>1.955</td> </tr> <tr> <td>Internal road</td> <td>0.955</td> <td>1.992</td> </tr> <tr> <td>Utility</td> <td>0.657</td> <td>0.657</td> </tr> <tr> <td>Green belt</td> <td>3.258</td> <td>3.650</td> </tr> </tbody> </table>	Particulars	Existing (area in Ha)	After expansion (area in Ha)	Builtup area	1.504	1.955	Internal road	0.955	1.992	Utility	0.657	0.657	Green belt	3.258	3.650
Particulars	Existing (area in Ha)	After expansion (area in Ha)															
Builtup area	1.504	1.955															
Internal road	0.955	1.992															
Utility	0.657	0.657															
Green belt	3.258	3.650															

  
MEMBER SECRETARY  
SEIAA-TN

		Future expansion	4.638	2.758
		Total area	11.012	11.012
5	Cost of Project (INR)	Rs. 20.00 Crores (proposed expansion)		
6	Brief description of the project	Proposed expansion of existing foundry for production of Grey & SG Iron castings from 1814 TPM to 6000 TPM		
7	ToR Details	<ol style="list-style-type: none"> <li>ToR issued by SEIAA-TN vide Lr.No.SEIAA-TN/E.No.7464/3(a)/ToR-877/2020, Dated: 12.03.2021</li> <li>Public hearing conducted on 18.10.2021 at 10:00Am, Mayoora Mahal, Perundurai- Chennimalai Road, Perundurai, Erode District.</li> <li>EIA report submitted to SEIAA-TN on 21.01.2022</li> </ol>		
	Raw materials	<b>Raw material</b>	<b>Existing capacity (T/M)</b>	<b>After expansion (T/M)</b>
		Pig iron	500	1000
		Metal scraps & Borings	1286	3450
		Runner, Riser & rejects	604	1435
		Ferro silicon	20	45
		Ferro manganese	10	20
		Ferro silicon manganese	25	40
		Inoculants	5	10
		Silica sand	200	400
		Bentonite	50	100
		Sodium silicate	10	20
8	a) Water requirement	Water requirement – 40 kLD to 71 kLD Sand moulding -15 kLD Cooling tower make up - 20 kLD Drinking and sanitation -36 kLD		

  
**MEMBER SECRETARY**  
**SEIAA-TN**  


	b) Source of water	SIPCOT water supply																		
9	Sewage/Effluent generation, & treatment	Sewage Generation – 18 kLD to 28.8 kLD Existing STP capacity-30 KLD <b>STP Components:</b> Bar Screen chamber Oil skimmer tank Collection tank Aeration tank Settling tank Primary clarifier MBBR Sand filter Activated carbon filter Treated effluent tank Sludge trying beds																		
10	Mode of disposal of Sewage	Treated Sewage - 28.8 kLD for Green belt development																		
11	Quantity of Solid Waste generated per day (in Kgs), Mode of treatment and Disposal of Solid Waste	<table border="1"> <thead> <tr> <th>Product</th> <th>Existing (T/M)</th> <th>After expansion (T/M)</th> <th>Mode of disposal</th> </tr> </thead> <tbody> <tr> <td>Furnace slag</td> <td>20</td> <td>40</td> <td rowspan="3">Reload lying &amp; construction filling</td> </tr> <tr> <td>Waste sand</td> <td>230</td> <td>460</td> </tr> <tr> <td>Dust from filters</td> <td>20</td> <td>40</td> </tr> <tr> <td>STP sludge</td> <td>0.3</td> <td>0.4</td> <td>Manure in greenbelt development</td> </tr> </tbody> </table>	Product	Existing (T/M)	After expansion (T/M)	Mode of disposal	Furnace slag	20	40	Reload lying & construction filling	Waste sand	230	460	Dust from filters	20	40	STP sludge	0.3	0.4	Manure in greenbelt development
Product	Existing (T/M)	After expansion (T/M)	Mode of disposal																	
Furnace slag	20	40	Reload lying & construction filling																	
Waste sand	230	460																		
Dust from filters	20	40																		
STP sludge	0.3	0.4	Manure in greenbelt development																	

  
**MEMBER SECRETARY**  
**SEIAA-TN**  


12	Hazardous waste Management:			
	solid waste	<b>Existing</b>	<b>Proposed</b>	<b>Mode of Treatment</b>
	used or spent oil	2	5	Disposed to TNPCB authorised recyclers
	Waste containing oil Gas cleaning residue	1	2	Disposed to TNPCB authorised recyclers
	Containers contaminated with hazardous chemicals	5	10	Disposed to TNPCB authorised recyclers
13	Power requirement	4400KVA to 15500 KVA from TANGEDCO (After expansion) DG sets 2 nos. of 500KVA (proposed), 1 No. of 2000KVA (existing)		
14	APC measure	<b>Existing</b>		
		<b>Units</b>	<b>APC measure</b>	
		Induction furnaces ( 1 No-3 Ton & 1 No-1.5 Ton)	Fume extraction system & cassette filter with stack height of 22m	
		Sand plant & DISA cool	cassette filter type dust collector with stack height of 22m	
		Metal poring & cooling zone	Suction hood with stack height of 22m	
		Knockout machine	cassette filter type dust collector with stack height of 15m	
		Sand reclamation plant	Bag filter with stack height of 7m	
		Shot blasting machine (1 Ton)	cassette filter type dust collector with stack height of 12m	
	DG set (2000 KVA)	Acoustic enclosures followed		

  
**MEMBER SECRETARY**  
**SEIAA-TN**  


			by stack with height of 12m.
		<b>Proposed</b>	
		<b>Units</b>	<b>APC measure</b>
		Induction furnaces ( 3 No-3 Ton)	Fume extraction system & cassette filter with stack height of 22m
		Shot blasting machine (6 Nos X 2 Tons)	cassette filter type dust collector with stack height of 12m
		DG set (2 nos of 500 KVA)	Acoustic enclosures followed by stack of height 10m each.
		Fettling section (2 nos)	cassette filter type dust collector with stack height of 20m
		Paint booth	Paint trap filters with stack height of 12m
17	Details of man power	500 Nos to 800 Nos	
18	Details of Green Belt Area	3.650 Ha	
20	Provision for rain water harvesting	RWH pits 5 Nos. of 9 dia	
21	EMP Cost (INR)	Capital cost -Rs.135 Lakhs Operational cost -Rs.37 Lakhs per annum	
22	CER activity	Rs. 35 lakhs Restoration of nearby water body, Improvement of infrastructure of nearby schools, Plantation / Distribution of saplings and conducting Medical Camps in the surrounding panchayats.	

**AFFIDAVIT**

**FOR WATER SUPPLY, SEWAGE DISPOSAL, SOLID WASTE DISPOSAL, CURRENT STATUS OF THE SITE, CER ACTIVITIES FOR THE PROPOSED EXPANSION PROJECT UNDER APPRAISAL IN STATE ENVIRONMENT IMPACT ASSESSMENT AUTHORITY**

  
**MEMBER SECRETARY**  
**SEIAA-TN**

I, **S. Jeevanantham**, M/s. JS Auto Cast Foundry India Private Limited, Unit – III located at Plot No. KK5, KK6, KK7 (S.F. No.127pt, 128pt, 131 & 132pt of Ingur Village & 213pt, 214pt & 215pt of Perundururai Village), SIPCOT Industrial Growth Centre, Perundururai, Erode District is in the process of expanding its production capacity. 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 Sworn that

1. The total water requirement for the expansion project is about 71 KLD, which will be met from SIPCOT as per the agreement made with them. 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.
2. Sewage of 28.8 KLD will be treated in STP with a capacity of 30 KLD and no effluent will be generated from the process.
3. Non - Hazardous waste (Furnace Slag, Waste Sand, Dust from Filters will be disposed to the contractors to reuse it as filling material in road laying / construction. The Hazardous waste of Used or Spent Oil-5 TPA, Waste containing oil – 2 TPA, Hazardous chemical containers – 10 TPA & Paint Sludge – 15 TPA from the plant will be Collected, Stored & disposed to TNPCB/CPCB Authorized Recyclers / Utilisers.
4. We fully assure that 36,500Sq. m. (33.15% of total plot area) will be allotted for green belt development within the premises and will not be used for any other activities.
5. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated:30.09.2020, and 20/10/2020, Rs.35 Lakhs as capital cost & Rs. 7 Lakhs as Recurring cost will be spent towards CER. The CER Amount allocated will be effectively utilized for the nearby Villages.

S. No.	Description	Capital Cost (Rs. in lakhs)	Recurring Cost per Annum (Rs. in lakhs)
1	Restoration of Nearby waterbody	20	1
2	Improvement of infrastructure of nearby schools	10	1
3	Plantation / Distribution of saplings	5	-

  
MEMBER SECRETARY  
SEIAA-TN





4	Conducting Medical Camps	-	5
<b>Total</b>		<b>35</b>	<b>7</b>

6. I also commit that our proposed project area does not encroached by any water bodies / reserve forests / wetlands.
7. I also commit that there will not be any activity carried out in the proposed area and the area is vacant. In this regard, photographs of the proposed project area taken on the 6<sup>th</sup> day of June 2022 is enclosed. It truly depicts the status of the site as on this day.

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 276<sup>th</sup> SEAC Meeting held on 21.5.2022. The project proponent gave a detailed presentation. The details of the project furnished by the proponent are given on the website (parivesh.nic.in).

Earlier, this proposal was placed in 251st EAC Meeting held on 04.3.2022. Based on the presentation and document furnished by the project proponent, SEAC decided to call for the following details from the project proponent.

1. Details of utilization of fresh sand/ reclaimed sand quantity for the process in and its disposal methods.
2. The proposal with lay out for storage of used sand and it's disposal.
3. The revised Material balance/ stoichiometric balance shall be furnished in accordance with MoEF&CC guidelines.
4. Details of contribution of increased pollution load (Air, water & hazardous waste etc..) during this expansion activity carried out by the unit.
5. Details of last 5 years health records and conducting periodical medical camp pertaining to the workers shall be furnished.
6. The proponent shall furnish the production detail submitted to the Commercial Tax department for the last 5 years.
7. The proponent shall submit the copy of the consent to operate and the latest renewal consent order issued by the TNPCB.
8. The project proponent shall furnish the detailed comparison statement of existing and expansion project details in the EIA report.

  
**MEMBER SECRETARY**  
**SEIAA-TN**  


9. Details of all source of all air pollution such as process emission, fugitive emission, VOC etc and it's mitigation measures.
10. The details of adequacy report of existing & proposed APC measures.
11. The details of adequacy report of existing & proposed STP.
12. Details of other similar industries located in the vicinity of the unit.
13. As per minutes of Public hearing details of CRS activities shall be displayed in the unit's website.
14. Proposal for plantation & distribution of 10,000/- saplings ( as per appendix) in the SIPCOT, nearby villages, School shall be furnished.
15. The Budget for restoration of nearby water body shall be included in the EMP accordingly furnished revised EMP.
16. The video graph of entire process shall be furnished.

On the receipt of the said details, this proposal again been placed in 276<sup>th</sup> SEAC meeting held on 21.5.2022. Based on the presentation made and documents furnished by the project proponent, SEAC decided to **recommend the proposal for the grant of Environmental Clearance** subject to the following specific conditions, in addition to normal conditions stipulated by MOEF &CC.

1. The proponent shall not utilize Bazaar scraps, Painting scraps, turning & boring scrap etc as raw material.
2. The PP shall properly dispose of the used sand for other beneficial uses.
3. The generated sewage shall be treated through existing STP of capacity 30 KLD and treated water shall be utilized for green belt development.
4. The PP shall not generate any effluent from the process at any point of time.
5. All the roads shall be tarred and water sprinkling shall be ensured to control dust emissions from all the vulnerable sources like raw material handling and storage areas. All the material transfer points, discharge points and raw material storage area shall be completely covered. Dust extraction system shall be provided to storage, transfer points and material handling areas. Monitoring of fugitive emission in the work zone environment shall be carried out regularly as per the CPCB guidelines.
6. The proponent shall provide, operate and maintain the air pollution control measures to all the furnaces so as to achieve the air emission standards prescribed by the CPCB/MoEF&CC and same shall be connected to the CARE AIR centre of TNPCB for online monitoring.

  
**MEMBER SECRETARY**  
**SEIAA-TN**  


7. The proponent shall continuously operate the sewage treatment plant so as to achieve the standards of treated sewage prescribed by CPCB/TNPCB.
8. All the solid wastes like slag and SEP residue shall be stored separately at designated place only. Solar Evaporation Pan residue shall be disposed off in accordance with the Hazardous and Other Wastes (Management and Trans-boundary Movement) Rules, 2016.
9. Proper housekeeping shall be ensured and all the raw materials and products shall be stored at designated places.
10. The Project proponent shall provide adequate safety and ventilation arrangements in the furnace area.
11. A separate Cell with adequate technically competent staff should be appointed to operate the Environmental Control measures who should report directly to the top Executive of the plant premises.
12. Ambient air quality monitoring (AAQM) stations shall be set up as per statutory requirement. The locations of ambient air quality monitoring stations shall be decided in consultation with the Tamil Nadu Pollution Control Board and it shall be ensured that maximum numbers of stations to be installed in the up wind direction and same shall be connected to CARE AIR centre in TNPCB for online monitoring.
13. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc., on all sources of noise generation. The ambient noise levels shall conform to the standards prescribed CPCB/MoEF&CC.
14. The Proponent shall provide and maintain the Green belt at least 33 % area as per the CPCB Guidelines and the proponent shall develop more Green belt continuously.
15. The Proponent shall furnish an undertaking that they will abide by the conditions by the conditions / recommendations mentioned in the EMP report furnished by them.
16. As accepted by the Project Proponent the CER cost is Rs. 35 lakh and the amount shall be utilized for following activities before obtaining CTO from TNPCB.

Restoration of nearby water body, Improvement of infrastructure of nearby schools, Plantation / Distribution of saplings and conducting Medical Camps in the surrounding panchayats.

  
MEMBER SECRETARY  
SEIAA-TN  


**SEIAA Remarks & Recommendation:**

The proposal was placed in the 521<sup>st</sup> Authority meeting held on 17.06.2022. 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. 22-65/2017-1A.III dated: 30.09.2020 and 20.10.2020 & the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER 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 of STP, ETP, & 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 continuously & efficiently so as to comply with the discharge standards prescribed by the CPCB/TNPCB.
5. No untreated sewage, treated/untreated effluent shall be discharge inside & outside the project premises at any time.
6. 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.
7. The project proponent shall periodically dispose the Hazardous waste generated as per provisions of Hazardous and Other Wastes (Management and Transboundary Movement) Amendment Rules, 2016 as amended.
8. The project proponent shall periodically dispose the solid waste generated as per provisions of Solid waste Management Rules, 2016 as amended.
9. The project proponent shall periodically dispose the slag for the beneficial purpose as per recommendation of competent authority.
10. The project proponent shall reuse metallurgical rejects in the process as committed.

  
**MEMBER SECRETARY**  
**SEIAA-TN**  


11. The project proponent shall provide & maintain the adequate green belt area of native plant species in consultation of agricultural university/DFO as committed.
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.

**Validity:**

**The SEIAA hereby accords Environmental Clearance to the above project under the provisions of EIA Notification dated 14<sup>th</sup> 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

  
**MEMBER SECRETARY**  
**SEIAA-TN**

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 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

  
**MEMBER SECRETARY**  
**SEIAA-TN**

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).
- 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.

  
**MEMBER SECRETARY**  
**SEIAA-TN**



**(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 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 1st May 2018, as applicable, regarding Corporate Environment Responsibility.

  
**MEMBER SECRETARY**  
**SEIAA-TN**





- ii. The company shall have a well laid down environmental policy duly approved 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 report 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 purpose. Year wise progress of implementation of action plan shall be reported to the Ministry/Regional Office along with the Six Monthly Compliance Report.
- 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.

  
**MEMBER SECRETARY**  
**SEIAA-TN**



- 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.
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.

  
**MEMBER SECRETARY**  
**SEIAA-TN**



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 1<sup>st</sup> June and 1<sup>st</sup> 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.
- (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.

  
MEMBER SECRETARY  
SEIAA-TN



- (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 (PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>x</sub>, NO<sub>x1</sub>) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
- (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.

  
MEMBER SECRETARY  
SEIAA-TN  


- (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.
- (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.
- (xxxi) The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
- (xxxii) 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.
- (xxxiii) 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.
- (xxxiv) 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.
- (xxxv) 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.
- (xxxvi) The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.

  
MEMBER SECRETARY  
SEIAA-TN  


- (xxxvii) 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.
- (xxxviii) There should be no threat to Bio diversity due to the operation of the industry.
- (xxxix) The flora & fauna present in and around the project site should be get affected due to the activity as reported.
- (xl) 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.
- (xli) The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.
- (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; PM<sub>10</sub>, SO<sub>2</sub>, NO<sub>x</sub> (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.

  
**MEMBER SECRETARY**  
**SEIAA-TN**



- 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.
- 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, SO<sub>2</sub> and NO<sub>x</sub> 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.

  
MEMBER SECRETARY  
SEIAA-TN  


- 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, GOI at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO<sub>2</sub>, NO<sub>x</sub> (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 31<sup>st</sup> 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.

  
MEMBER SECRETARY  
SEIAA-TN





- 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 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, 1<sup>st</sup> & 2<sup>nd</sup> 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, Erode District.
7. Stock File.