



Thiru.K.V.GIRIDHAR, I.F.S.,
MEMBER SECRETARY

STATE LEVEL ENVIRONMENT IMPACT
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ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No. 6430/EC/ 3(a)/ 78/2020 dated:10.11.2020

To

M/s. Kanishk Steel Industries Ltd
S.F.No.B27, (N.M.S) , SIPCOT Industrial Complex,
Peddikuppam Village,
Old Gummidipoondi Taluk,
Tiruvallur District.

Sir,

Sub: SEIAA-TN– Environmental Clearance- Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structurals and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District – for Environmental Clearance - Category B1 & Schedule item Io. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) - Issued – Regarding.

- Ref: 1. Terms of Reference issued vide SEIAA Lr. No.SEIAA/ F.No.6430/2017/ 3(a)/ KSI/TOR-292/2017, Dated: 15.11.2017.
2. EC Application along with EIA Report date 29.08.2019.
3. Minutes of Public hearing from TNPCB dated: 09.07.2019.
4. Minutes of the 140th Meeting of SEAC held on 10.12.2019




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5. Minutes of the 173rd Meeting of SEAC held on 10.09.2020.
6. Minutes of the 402nd Meeting of SEIAA held on 07.10.2020.
7. Minutes of the 404th Meeting of SEIAA held on 14.10.2020.

This has reference to your Environmental Clearance application dated 06.12.2018 applied to SEIAA-TN and subsequent communication on the above mentioned subject by M/s. Kanishk Steel Industries Ltd for the Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu under Item No. 3(a) – Metallurgical Industries (Ferrous & Non - Ferrous) & Category 'B1' of the Schedule to the EIA Notification, 2006.

1. The project proponent M/s. Kanishk Steel Industries Ltd applied seeking Terms of References on 15.11.2017 to SEIAA for Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited located at Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamil Nadu .
2. Terms of Reference (ToR) was issued vide SEIAA Letter No:SEIAA-TN/F.No.6430/2017/3(a)/KSI/TOR-292/2017 dated: 15.11.2017.
3. Based on the ToR issued vide SEIAA , the proponent prepared the EIA report and submitted the same to SEIAA-TN on 29.08.2019.
4. The proposal (EIA report) was placed in the 173rd meeting of SEAC held on 10.09.2020. The SEAC decided to recommend the proposal for the grant of Environmental Clearance to SEIAA – TN subject to certain conditions.
5. The subject was placed before 404th meeting of SEIAA held on 14.10.2020. SEIAA after careful consideration decided to issue Environmental Clearance subject to terms and conditions stipulated under the provisions of Environment Impact Assessment




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1	(i) Name of the Project:	i) Proposed Expansion of Steel Melting Plant and Rolling Mill for the Production of 76,000 TPA of Re-Rolled Products/Structural and 83,000 TPA of MS Billets by M/s. Kanishk Steel Industries Limited.															
	(ii) Date of Application submission to SEIAA:	ii) EC Application along with the EIA Report Dated:29.08.2019.															
2	Name of Sector:Schedule No(in the EIA Notification,2006)	Schedule S.No. 3(a) of Category "B1" – Metallurgical Industries (Ferrous & Non - Ferrous)															
3.	New Project/ Expansion	Expansion Project															
4	Name of the Applicant/Project Proponent	M/s. Kanishk Steel Industries Limited.															
5	(i) Project	Plot No. B 27, SIPCOT Industrial Complex, Peddikuppam Village, Gummidipoondi Taluk, Tiruvallur District, Tamilnadu.															
	(ii) Co-ordinates (lat-long) of all four corners of the site	<table border="1"> <thead> <tr> <th>S.No</th> <th>Latitude</th> <th>Longitude</th> </tr> </thead> <tbody> <tr> <td>1.</td> <td>13°25'.079"N</td> <td>80° 7'.154"E</td> </tr> <tr> <td>2.</td> <td>13°25'.069"N</td> <td>80° 7'.235"E</td> </tr> <tr> <td>3.</td> <td>13°24'.971"N</td> <td>80° 7'.229"E</td> </tr> <tr> <td>4.</td> <td>13°24'.972"N</td> <td>80° 7'.137"E</td> </tr> </tbody> </table>	S.No	Latitude	Longitude	1.	13°25'.079"N	80° 7'.154"E	2.	13°25'.069"N	80° 7'.235"E	3.	13°24'.971"N	80° 7'.229"E	4.	13°24'.972"N	80° 7'.137"E
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	(iii) Whether any GO attracted	No.															



6	(i)Area of the Site(in Sq.m)	3.015 Ha (7.45 acres)		
	(ii)Land use are(in Sq.m)	Description	Area (Sq.M)	Percentage (%)
		Factory shed area	0.9	29.85
		Scrap area	0.55	18.24
		Product storage area	0.15	4.98
		Greenbelt Development	1	33.17
		Road	0.37	12.27
		Open space area	0	0.00
		Solid waste storage area	0.045	1.49
		Total area	3.015	100
7	Land use Classification as per Record	Industrial Land use Zone (SIPCOT, Gummidipoondi)		
8	TOR issued? (If yes then specify the details)	Yes. Terms of Reference (ToR) issued vide SEIAA Lr. No. SEIAA/F.No.6430/2017/3(a)/KSI/TOR-292/2017, Dated: 15.11.2017 & Dated 09.07.2019 with Public Hearing.		
9	Waterboding within 10km radius	The project site is located within 10km , Thamari Eri – 0.4km, Murugan pond – 1km (East), Shiva temple pond -1.6km (ESE) , Sri Amman temple pond – 1.7km (south).		
10	Distance from Protected areas /Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries.	The prior clearance from Forestry and wildlife angle including clearance from the Standing Committee of the National Board for Wildlife if required.		




11 Production Details

Sr. No	Products	Quantity (TPA)	
		Existing	After Expansion
I	<i>Main Products</i>		
1	Re-rolled products/ Structurals	54,000	76,000
2	MS Ingots	6,000	-
II	<i>By products</i>		
1	MIS Rolls	2,160	N/A
III	<i>Intermediate Products</i>		
1	MS Ingots	36,000	-
2	MS Billets	-	83,000

List of Raw Materials & Source

S. No	Name of Raw Materials	Sources of Raw materials	Number Trucks/Day	Mode of Transport
Steel Melting Unit				
1	MS Scrap	96,000	Sweden, Malaysia, UK, New Zealand, Gummidipoondi	By ship followed by road transport
2	Sponge iron	4,800	Local suppliers from Gummidipoondi	By road through covered trucks
3	Silicon Manganese	1152	Andhra Pradesh	By road through covered trucks
4	Ferro Manganese	48	Local suppliers from Gummidipoondi	By road through covered trucks
5	Aluminium	14	Andhra Pradesh	By road through covered trucks




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14	Man-power Requirement	350 Employees																						
15	Total Water Requirement -45.25 KLD	<p>Source of water – SIPCOT, Gummidipoondi</p> <table border="1"> <thead> <tr> <th>Particulars</th> <th>Water Requirement (KLD)</th> </tr> </thead> <tbody> <tr> <td>Domestic</td> <td>8.75</td> </tr> <tr> <td>Machinery Cooling</td> <td>33</td> </tr> <tr> <td>Scrubber make-up</td> <td>3.5</td> </tr> <tr> <td>Total water requirement</td> <td>45.25</td> </tr> </tbody> </table>	Particulars	Water Requirement (KLD)	Domestic	8.75	Machinery Cooling	33	Scrubber make-up	3.5	Total water requirement	45.25												
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16	Sewage generation and treatment	<p>The domestic sewage (8.75 KLD) generated from the proposed expansion project will be treated in the existing Sewage Treatment Plant having a capacity of 10 KLD. The treated wastewater of 7.5 KLD from the STP will be used for green belt development. The wastewater from the cooling processes is treated in the cooling pond followed by cooling tank and the treated water of 18.8 KLD will be re- circulated for the processes.</p> <p>The scrubber effluent of 3.5 KLD will be treated in the existing Solar Evaporation Pan.</p> <table border="1"> <thead> <tr> <th rowspan="2">Sr. No</th> <th rowspan="2">Description</th> <th colspan="2">Quantity in KLD</th> <th rowspan="2">Treatment</th> </tr> <tr> <th>Exis ting</th> <th>After Expansi on</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Sewage</td> <td>5.5</td> <td>7.9</td> <td>Existing STP 10 KLD</td> </tr> <tr> <td>2</td> <td>Blow down</td> <td>11.0</td> <td>19.0</td> <td>Cooling tower and recycled to back to process</td> </tr> <tr> <td>3</td> <td>Scrubber bleed</td> <td>1.40</td> <td>2.45</td> <td>Solar Evaporation Pan</td> </tr> </tbody> </table>	Sr. No	Description	Quantity in KLD		Treatment	Exis ting	After Expansi on	1	Sewage	5.5	7.9	Existing STP 10 KLD	2	Blow down	11.0	19.0	Cooling tower and recycled to back to process	3	Scrubber bleed	1.40	2.45	Solar Evaporation Pan
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3	Scrubber bleed	1.40	2.45	Solar Evaporation Pan																				
17	Hazardous waste Management	<p>a. Solar Pan Residue – 0.04 (Collected and Transported top CTSDF, Gummidipoondi)</p> <p>b. Oil bearing cotton waste - 0.3 MT/year (Collected and Transported top CTSDF, Gummidipoondi)</p>																						



18	Other Solid waste	Non Hazardous				
		S.No.	Solid Waste	Quantity (TPA)	Treatment of Disposal	
		1	Furnace slag	12,700	Sold out to contractors	
		2	CCM Scale	510	Sold out to contractors	
		3	Returnable scrap	5,572	Remelted in induction furnace	
		4	Runner and riser	-	Remelted in induction furnace	
		5	Mill scale	1,600	Sold out to contractors	
		6	Cobbles	830	Remelted in induction furnace	
		7	End cuttings/Misrolls	4,570	Remelted in induction furnace	
		8	Ash	-	Sold to ash bricks manufactures	
		9	STP Sludge	1.34	Dried and used as manure for greenbelt	
10	Municipal waste	28	Will be collected by Civic bodies			
19	Power requirement	Particulars	Usage	Existing	After Expansion	
		Power requirement Source: TANGEDCO	Induction furnace, CCM, Rolling Mill, Other infrastructure usage	5.9 MVA	11.9 MVA	
		Backup Facility				
		DG Set	Lightings, Melting machineries	1 x 250 KVA	1 x 250 KVA	1 x 500 KVA
		Fuel				
		Low Sulphur – High speed Diesel Source: Local bunks	Diesel Generator	80 Lit/hr	80 Lit/hr	160 Lit/hr
Thermal coal Source: Indonesia	Reheating furnace		-	NIL		
20	Storm Water Management	Storm water drains will be provided along the factory to ensure that this will be minimizing runoff of the contaminated water to the land surrounding the site.				



23	Rain Water Harvesting	9 Nos. of percolation pits will be constructed along the periphery of the plant for ground water recharge from rain water.
24	Green Belt Development	Green belt area – 1336Sq.m (33%)
25	Project cost	Rs. 4.0 Crores
26	EMP Cost(O&M)	Capital Cost: Rs 45.0 Lakhs Recurring Cost: Rs.7.0 Lakhs per annum.

Affidavit

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

We hereby propose and promise to the following developments and works at Gummidipoondi near our Factory;

1. Drinking – water provision at Ganganthotty Village by installing 2 heavy duty hand pumps including bore drilling and platform; Cost of 2 Numbers @ Rs.70,000/- each
Rs. 1,40,000/-
 2. Providing retaining walls to Government Elementary School at Ma Po Si Nagar, Gummidipoondi for a length of 7 Meters with 1.8 Meters width 1.8 Metre Height; Cost of construction including materials: Rs.3,60,000/-;
 3. Provision of Toilets for the same school;
2 Number Toilets @ Rs.60,000/- each Rs.1,20,000/-;
 4. Provision of 3 Number Toilets at Ganganthotty Village @ Rs.75,000/-, Rs.2,25,000/-;
- The total cost works out to Rs.8,45,000/- in all.

Appraisal by SEAC:-

The project activity is of Category “B1” and comes under S.No.3 (a) in the Schedule of EIA Notification, 2006. The Proposal was appraised by the State Level Expert Appraisal Committee in the 96th meeting held on 31.10.2017, as per the prescribed procedure in the light of provisions under the EIA Notification, 2006 and on the basis of the mandatory documents enclosed with the application. TOR was prescribed by the SEAC for EIA studies including Public consultation. Public consultation was held on 31.10.2018. Subsequently the proposal was




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appraised by the SEAC in the 173th SEAC Meeting held on 10.09.2020. Based on the presentation made by the proponent and the documents furnished, after detail deliberation, the SEAC decided to recommend the proposal for grant of Environmental Clearance to SEIAA subject to the following conditions in addition to normal conditions:

1. 'Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
2. All the roads shall be tarred and water sprinkling shall be ensured to control dust emission from all the vulnerable sources like raw material handling and storage areas. All the material transfer points, discharge points and raw material storage areas shall be completely covered. Dust extraction system shall be provided to 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.
3. The proponent shall provide 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.
4. Gaseous emissions including secondary fugitive emissions from all the sources shall be controlled within the latest permissible limits issued by the MoEF&CC and regularly monitored and reports should be submitted to SEIAA-TN, CPCB and TNPCB. Guidelines / Code of Practice issued by the CPCB shall be followed.
5. The scrubber effluent from wet scrubbers shall be evaporated in elevated Solar Evaporation Pan of adequate sizes. No wastewater shall be discharged outside the Plant premises and 'Zero' discharge shall be strictly adopted as proposed.
6. The proponent shall continuously operate the Sewage treatment plant so as to achieve the standards of treated sewage prescribed by CPCB/TNPCB.
7. Slag shall be subject to Toxic Chemical Leach ability Potential (ICLP) test before using for further beneficial use and shall be used only when found nonhazardous.



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 of in accordance with the Hazardous and Other Wastes (Management and Transboundary 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.

Discussion by SEIAA and the Remarks:-

The proposal was placed before the SEIAA in its 404th Meeting held on 14.10.2020. After detailed discussion the Authority decided to accept the recommendations of SEAC and




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decided to grant Environmental Clearance subject to the conditions as recommended by the SEAC and subject to General conditions in addition to normal conditions.

1. The EMP Cost shall be deposited in a nationalized bank by opening separate account and head wise expense statement shall be furnished to TNPCB with a copy to SEIAA annually.
2. The proponent should strictly comply with, Tamil Nadu Government Order (Ms) No.84 Environment and forests (EC.2) Department dated 25.06.2018 regarding ban on one time use and throw away plastics irrespective of thickness with effect from 01.01.2019 under Environment (Protection) Act, 1986.
3. A detailed post-COVID health management plan for workers as per ICMR and MHA guidelines or the State Govt. guideline may be followed and report shall be furnished.
4. If there is any change in the production or land area application for amendment has to be submitted to SEIAA for further approval.

As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs.8.45 lakhs as committed in the affidavit. The CER activity shall be carried out before obtaining CTO from TNPCB.

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

Statutory compliance:

- i) The green belt developed should be 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.
- ii) The project proponent shall operate and maintain the Sewage treatment Plant and Effluent treatment plant effectively to meet out the standards prescribed by the CPCB.



- iii) It is necessary to be carried 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.
- iv) 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.
- v) 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.
- vi) The proponent shall strictly follows the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
- vii) Necessary consent letter for the water supply shall be obtained from the SIPCOT before obtaining CTO from TNPCB.
- viii) The proponent shall continuously operate and maintain the Air-pollution control measures to be provided
- ix) The project proponent shall provide sufficient ventilation (air circulation) in the hazardous waste storage yard where the hazardous wastes are being kept.
- x) The sewage generated from the unit shall be treated and dispose through septic tank and soak pit arrangement.
- xi) The effluent generated from the process should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB.
- xii) 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.
- xiii) 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.




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- xiv) The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- xv) 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)
- xvi) 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.
- xvii) The project proponent shall obtain authorization under the Hazardous and other Waste Management Rules, 2016 as amended from time to time.
- xviii) 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

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.




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- 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.

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.

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




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employees shall be undertaken on regular basis. Training to all employees on handling of chemicals shall be imparted.

- v) Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.
- vi) Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- vii) There shall be adequate space inside the plant premises earmarked for parking of vehicles for raw materials and finished products, and no parking to be allowed outside on public places

Corporate Environment Responsibility:

- i) As per OM dated 30.09.2020 and 20.10.2020, the proponent shall furnish EMP to TNPCB by including all the activities proposed in CER for Rs.8.45 lakhs as committed in the affidavit. The CER activity shall be carried out before obtaining CTO from TNPCB.
- 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




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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.

- v) 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:-
- Metering and control of quantities of active ingredients to minimize waste.
 - Reuse of by-products from the process as raw materials or as raw material substitutes in other processes.
 - Use of automated filling to minimize spillage.
 - Use of Close Feed system into batch reactors.
 - Venting equipment through vapour recovery system.
 - Use of high pressure hoses for equipment clearing to reduce wastewater generation.

SPECIFIC CONDITIONS

- 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.
- “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. 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.
6. The proponent shall carryout best housekeeping practices as spillage management for handling and maintenance of raw materials and products inside the unit premises.
7. Nature of chemicals Handled, the Do and Don'ts shall be displayed at all vital locations as laid down in MSDS.
8. The proponent shall ensure that the quantity of Hazardous Waste handed over to the TSDF shall match with the quantity generated.
9. The proponent shall provide a separate closed area earmarked for storing solid waste including Hazardous Waste as proposed.
10. 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.
11. The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
12. 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.
13. The Municipal solid waste generated shall be collected, segregated and disposed as per Solid Waste Management Rules, 2016.



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14. The industry shall conduct air sampling at least once in six months for the general core parameters (PM₁₀, PM_{2.5}, SO_x, NO_x) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
15. 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.
16. 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.
17. The Green belt area already developed within the project area shall be properly maintained.
18. The green belt of 3-10 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.
19. The industry shall promote tree plantation to neutralize their carbon foot print. The industry shall engage regularly in afforestation programme.
20. 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.
21. The energy sources for lighting purposes shall preferably be LED based.
22. The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
23. Risk cum disaster management plan should be in placed in the industry premises at all time.
24. 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.




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25. 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.
26. 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.
27. All the assurances given in EIA and EMP shall be adhered strictly.
28. Detail study shall be carried out by engaging accredited agencies / reputed institutions for Risk management and detailed Disaster management plan prepared for compliance.
29. Sufficient funds should be provided for Disaster management.
30. The Project Proponent shall provide disinfection by UV system for the sewage treatment plant for treating the sewage before applying on land for gardening.
31. 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.
32. 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.
33. 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.
34. If the plant operation involves 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.
35. The Activity of the industry should not impact on agricultural, irrigation system and mangroves surrounding the area.




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36. The EMP cost of Rs.45 lakhs for capital cost and recurring cost cost Rs.7 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.
37. There should be no threat to Bio diversity due to the operation of the industry.
38. The Project Proponent has to provide rain water harvesting collection tank of adequate capacity in order to recover and reuse the rain water during normal rains.
39. The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.
40. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
41. 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.
42. The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.
43. The CER activities shall be carried out as reported in the sworn affidavit furnished by the Project Proponent.

General Conditions:

1. The Environmental Clearance does not absolve the applicant/proponent of his obligation/requirement to obtain other statutory and administrative clearance from the concerned statutory and administrative authorities.
2. No further expansion or modifications in the plant shall be carried out without prior approval of the SEIAA,TN.
3. "Consent for Establishment" shall be obtained from the Tamil Nadu Pollution Control Board and a copy shall be furnished to the SEIAA, Tamil Nadu before taking up of any construction activity at the site.
4. Proper housekeeping shall be ensured and all the raw material including scrap, coal etc., shall be stored at designated places.




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5. The project proponent shall undertake rain water harvesting measures and shall develop water storage for use in operation of the plant. Rain water harvesting system shall be put in place which shall comprise of rain water collection from the built up and open area in the plant premises. Action plan for implementation shall be submitted to the MoEF&CC Regional Office **within six months**.
6. The project proponent shall also adequately contribute in the development of the neighbouring villages. Special package with implementation schedule for providing potable drinking water supply in the nearby villages and schools shall be undertaken in a time bound manner.
7. The Project proponent has to spend the CER fund Rs. 8.45 Lakhs (2% of the project cost for the various activities as per MoEF & CC OM dated: 1.05.2018.
8. CSR schemes should address Public Hearing issues and shall be undertaken based on need assessment in and around the villages within 5 km of the site and in constant consultation with the village Panchayat and the District Administration.
9. It shall be ensured that in-built monitoring mechanism for the schemes identified is in place and annual social audit shall be got done from the nearest government institute of repute in the region. The project proponent shall also submit the status of implementation of the scheme from time to time.
10. Green Belt consisting of 3 tiers of **plantations** of native species around the plant boundary comprising of at least 33% of total land shall be raised. The density of trees shall not be less than 2500 per Ha and rate of survival at least 80%.
11. An Environmental Cell shall be created at the project site itself and shall be headed by an officer of appropriate seniority and qualification. It shall be ensured that the Head of the Cell shall directly report to the Head of the Organization.
12. All the measures regarding occupational health surveillance of the workers shall be undertaken and regular medical examination of all the employees shall be ensured as per the Factories Act and records maintained.
13. The project proponent shall also **comply** with all the environmental protection measures and safeguards recommended in the EIA / EMP report.




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14. The Proponent shall furnish an undertaking that they will abide by the condition by the conditions / recommendations mentioned in the EMP report furnished by them'
15. The company must undertake socio-economic development activities in the surrounding villages like community development programs, educational programs, drinking water supply and health care etc.
16. The Project Proponent shall inform the public that the project has been accorded environmental clearance by the SEIAA,TN and copies of the clearance letter are available with the TNPCB and may also be seen at Website of the SEIAA,TN at parivesh.nic.in This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same should be forwarded to the Regional office of the MoEF at Bengaluru.
17. The project proponent shall also submit six monthly reports on the status of compliance of the stipulated EC conditions including results of monitored data (both in hard copies as well as by e-mail) to the Regional Office of MoEF&CC, Bengaluru, the Zonal Office of CPCB, Bengaluru and the TNPCB. This shall also be put on the website of the Company by the proponent.
18. The Environmental Statement for each financial year ending 31st March in Form-V as is mandated has to be submitted by the project proponent to the Tamil Nadu Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the Regional Office of MoEF&CC, Bengaluru by e-mail.
19. The proponent shall upload the status of compliance of the stipulated EC 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 MoEF&CC, Bengaluru, the respective Zonal Office of CPCB, Bengaluru and the TNPCB. The criteria pollutant levels namely; SPM, RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and




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- displayed at a convenient location near the main gate of the company in the public domain.
20. Project authorities shall inform the MoEF&CC Regional Office at Bengaluru as well as the SEIAA, TN, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work.
 21. Full cooperation shall be extended to the Scientists/Officers from the Ministry / Regional Office of the Ministry / CPCB/ SPCB who would be monitoring the compliance of environmental status.
 22. The proponent shall provide 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.
 23. The SEIAA, TN reserves the right to revoke the clearance if conditions stipulated are not implemented to the satisfaction of the SEIAA, TN. The SEIAA, TN may also impose additional environmental conditions or modify the existing ones, if necessary.
 24. The environmental clearance accorded shall be valid for a period of 5 years to start the operations by the plant.
 25. Environmental Clearance is issued based on the details furnished as above. Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of Environment (Protection) Act, 1986.
 26. In case of any deviation or alteration in the project proposed from those submitted to this SEIAA, TN for clearance, a fresh reference should be made to the SEIAA, TN to assess the adequacy of the condition(s) imposed and to add additional environmental protection measures required, if any.
 27. The above stipulations would be enforced among others under the Water (Prevention and Control of Pollution) Act, 1974, the Air (Prevention and Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986 and rules there under, Hazardous Wastes (Management, Handling & Transboundary Movement) Rules, 2008 and its amendments, the Public Liability Insurance Act, 1991 and its amendments.




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28. 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 Principal 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 ACCF(C), Regional Office of MoEF & CC,
34, HEPC Building, I & 2 nd Floor, Central Garden Road, Nungambakkam,
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.



