



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

**STATE LEVEL ENVIRONMENT IMPACT
ASSESSMENT AUTHORITY – TAMIL NADU**
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ENVIRONMENTAL CLEARANCE (EC)

Letter No. SEIAA-TN/F.No.7622/EC/5(f)/82/2021 dated: 06.04.2021

To

The Proprietor,
M/s.Nanjil Industries,
Survey No.751/1, Plot No.121A,
Meenakshi Nagar, Poonapalli Village,
Hosur Taluk,
Krishnagiri District – 635 114.

Sir,

Sub: SEIAA-TN – Environmental Clearance – Proposed “installation of new API unit with production capacity of 3336 TPA” by M/s. Nanjil Industries at Plot No. S-112, S-113, S-114, Mukundrayapuram Village, Ranipet SIPCOT Industrial Complex, Phase-III, Wallajah Taluk, Vellore District, Tamil Nadu – Category - "B2" and Schedule 5(f) - Active Pharmaceutical Ingredients (API) under the EIA Notification, 2006 as amended – Issued – Regarding.

- Ref: 1. Online Proposal No. SIA/TN/IND2/154912/2020 dated 25.06.2020
2. Your application for Environmental Clearance dated: 07.07.2020
3. Office Memorandum issued by MoEF&CC vide F.No.22-25/2020-IA.II dated: 13.04.2020 and as per S.O. 1223(E) dated: 27.03.2020, and S.O. 3636(E) dated: 15.10.2020
4. Minutes of the 176th SEAC meeting held on 19.09.2020




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5. Proponent reply dated 20.10.2020
6. Minutes of the 201st SEAC meeting held on 12.02.2021
7. Minutes of the 434th SEIAA meeting held on 25.03.2021


This has reference to your application 2nd cited, the proposal is for "installation of new API unit with production capacity of 3336 TPA" at Plot No. S-112, S-113, S-114, Mukundrayapuram Village, Ranipet SIPCOT Industrial Complex, Phase-III, Wallajah Taluk, Vellore District, Tamil Nadu under Item No. 5(f) – Active Pharmaceutical Ingredients (API) & Category 'B2' of the Schedule to the EIA Notification, 2006.

1. The proponent M/s. Nanjil Industries has proposed to manufacture 4 products namely Chloroxylenol (PCMX), Thione, Amine and Cupric Chloride totalling 3336 TPA at Plot No. S-112, S-113, S-114, Mukundrayapuram Village, Ranipet SIPCOT Industrial Complex, Phase-III, Wallajah Taluk, Vellore District, Tamil Nadu
2. *The application has been submitted as per the Office Memorandum issued by MoEF&CC vide F.No.22-25/2020-IA.II dated: 13.04.2020 and as per S.O. 1223(E) dated: 27.03.2020, and S.O. 3636(E) Dt. 15.10.2020, the projects or activities in respect of 5 (f) Active Pharmaceutical Ingredients (API) to appraise as Category 'B2' Project. Hence the project comes under the B2 category;*
3. The proposal was placed in the 176th SEAC meeting held on 19.09.2020. After discussion SEAC decided to request the proponent to furnish additional particulars. Accordingly, the proponent has submitted the additional particulars.

Based on the Information submitted by you which are extracted below:

| Sl No | Description | Details |
|-------|--------------------------------------|--|
| 1 | (i) Name of the Project: | Proposed "installation of new API unit with production capacity of 3336 TPA" by M/s. Nanjil Industries |
| | (ii) Date of receipt of Application: | 07.07.2020 |




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| 2 | Name of Sector: Schedule No (in the EIA Notification, 2006) | Schedule S.No. 5(f) of Category "B2" – Active Pharmaceutical Ingredients (API) | | | | | | | | | | | | | | | |
|------|--|---|------|----------|-----------|---|----------------|----------------|---|----------------|----------------|---|----------------|----------------|---|----------------|----------------|
| 3 | New Project/ Expansion | New Project | | | | | | | | | | | | | | | |
| 4 | Name of the Applicant/Project proponent | M/s. Nanjil Industries | | | | | | | | | | | | | | | |
| 5 | (i) Project | Plot No. S-112, S-113, S-114, Mukundrayapuram Village, Ranipet SIPCOT Industrial Complex, Phase-III, Wallajah Taluk, Vellore District, Tamil Nadu | | | | | | | | | | | | | | | |
| | (ii) Co-ordinates (lat-long) of all four corners of the site | <table> <tr> <th>S.No</th><th>Latitude</th><th>Longitude</th></tr> <tr> <td>1</td><td>12°59'50.65" N</td><td>79°17'39.22" E</td></tr> <tr> <td>2</td><td>12°59'52.90" N</td><td>79°17'43.83" E</td></tr> <tr> <td>3</td><td>12°59'50.16" N</td><td>79°17'45.35" E</td></tr> <tr> <td>4</td><td>12°59'49.18" N</td><td>79°17'40.13" E</td></tr> </table> | S.No | Latitude | Longitude | 1 | 12°59'50.65" N | 79°17'39.22" E | 2 | 12°59'52.90" N | 79°17'43.83" E | 3 | 12°59'50.16" N | 79°17'45.35" E | 4 | 12°59'49.18" N | 79°17'40.13" E |
| S.No | Latitude | Longitude | | | | | | | | | | | | | | | |
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| 3 | 12°59'50.16" N | 79°17'45.35" E | | | | | | | | | | | | | | | |
| 4 | 12°59'49.18" N | 79°17'40.13" E | | | | | | | | | | | | | | | |
| | (iii) Whether any GO attracted | No | | | | | | | | | | | | | | | |
| 6 | (i)Area of the Site(in Hectares) | 1.2141 Ha (12141 Sq.m) | | | | | | | | | | | | | | | |
| | (ii)Land use are(in Ha) | Greenbelt Area – 4126 Sq.m | | | | | | | | | | | | | | | |
| 7 | Land use Classification as per Record | Ranipet SIPCOT Industrial Complex, Phase-III | | | | | | | | | | | | | | | |
| 8 | TOR issued? (If yes then specify the details) | No. As per Office Memorandum issued by MoEF & CC vide F.No.22-25/2020-IA.II dated: 13.04.2020 and as per S.O. 1223(E) dated: 27.03.2020, and S.O. 3636(E) dated: 15.10.2020 | | | | | | | | | | | | | | | |
| 9 | Project Cost | Rs. 4.0 Crores | | | | | | | | | | | | | | | |
| 10 | Distance from Protected areas /Critically Polluted areas/Eco-Sensitive areas/Inter-State Boundaries. | Ponnai River - 1.96 km, Ekambaranallur Lake - 2.5 km | | | | | | | | | | | | | | | |



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|----|------------------------------------|--|----------------------|-------------|-----------------------------|
| 11 | Production Details | S No | Products | Type | Total Proposed (TPA) |
| | | 1 | Chloroxylenol (PCMX) | API | 1500 TPA |
| | | 2 | Thione | API | 501 TPA |
| | | 3 | Amine | API | 960 TPA |
| | | 4 | Cupric Chloride | API | 375 TPA |
| 12 | Manufacturing Process | <p>To manufacture of essential bulk drugs (API)</p> <ol style="list-style-type: none"> 1. Chloroxylenol (PCMX) - Process involves Chemical Reaction, Filtration, Drying, Chlorination 2. Thione - Process involves Oxidation of 2 Chloropyridine, Neutralization, Distillation, Thione Reaction, Isolation Reaction 3. Amine - Process involves Nitro ether formation, Amine formation 4. Cupric Chloride - Process involves Addition of Copper Chips/powder, Chlorination, Filtration | | | |
| 13 | Man-power Requirement | 58 Nos. | | | |
| 14 | Total Water Requirement - 67.0 kLD | <p>Fresh water requirement: 35.81 kLD Recycled treated waste water: 31.19 kLD Process / Floor Wash / Equipment Cleaning: 55.00 kLD Cooling and boiler make-up: 8.00 kLD Domestic Consumption: 4.00 kLD Greenbelt Development: 3.20 kLD Source of water – SIPCOT</p> | | | |
| 15 | Sewage generation and treatment | <p>Sewage Generation: 3.20 kLD Proposed STP capacity of 5 kLD Treated Sewage 3.20 kLD will be used for Greenbelt Development</p> | | | |




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|----|--|---|-------------------|-------------------|----------|
| 16 | ETP Details | <p>Effluent Generation: 32 kLD (Low Concentrate Effluent from Process: 18.00 kLD, High Concentrate Effluent from Process: 11.00 kLD & Cooling Water / Boiler Blow down: 3.00 kLD) Proposed ETP capacity of 21 kLD for lean effluent & cooling tower blowdown Concentrated effluent (11 kLD) treated through MEE & ATFD</p> <ol style="list-style-type: none"> 1. Collection tank 2. Neutralization tank 3. Equalization tank 4. Primary clarifier 5. Anaerobic lagoon 6. Aeration tank I & II 7. Secondary clarifier I & II 8. Treated effluent tank | | | |
| 17 | Solid waste Management | <p>Organic waste – 1 T/Annum Inorganic waste disposed to scrap recyclers. STP sludge disposed as manure for Greenbelt.</p> | | | |
| 18 | Power requirement | <p>Power Requirement – 0.5 MW (TANGEDCO) Back up – 1 No of 500 kVA</p> | | | |
| 19 | Details of D.G. set with Capacity | 1 No of 500 kVA | | | |
| 20 | Stack emission Details: (All the stacks attached to process units, Boilers, D.G. Sets, (kg/hr) | <ul style="list-style-type: none"> • 7.0 m stack for 1 No of 500 kVA • Boiler - 2 TPH provided with dust collector & stack - 30 m • Acid & Alkali wet scrubber 1 no. each with combined stack - 20 mts | | | |
| 21 | Details of Fuel to be used: | S. No | Name of Fuel | Point of use | Quantity |
| | | 1 | High Speed Diesel | Diesel Generator | 0.3 kLD |
| | | 2 | Wooden Briquette | Wood fired boiler | 2 T |



| 22 | Details of Hazardous Waste | Category No. | Description of Hazardous Waste | Quantity | Disposal Method |
|----|----------------------------|------------------------|--|-------------|---------------------------|
| | | 5.1 | Used or spent oil | 0.5 T/Annum | CPCB Authorized Recyclers |
| | | 5.2 | Waste or residues containing oil | 0.5 T/Annum | Reused as fuel in boiler |
| | | 20.4 | Process sludge | 0.2 T/Annum | Common Landfill - TSDF |
| | | 33.1 | Empty barrels / containers / liners contaminated with hazardous chemicals / wastes | 670 T/Annum | CPCB authorized vendor |
| | | 35.3 | Chemical sludge from waste water treatment | 60 T/Annum | Common Landfill - TSDF |
| | | 37.3 | Concentration or evaporation residues | 350 T/Annum | Common Landfill - TSDF |
| 23 | Green Belt Development | 4126 Sq.m (34%) | | | |
| 24 | CER details | Rs. 8 lakhs | | | |
| 25 | EMP Cost | Rs. 35 Lakhs per annum | | | |

The proponent has furnished the sworn of affidavit in Rs. 100 stamp paper:

I, Mr. Robert Rajan, (Aadhar No.656876624614) Proprietor of M/s. Nanjil Industries, with its Registered Office at Sy. No.751/1, Plot No. 121 A, Meenakshi Nagar, Poonapalli Village, Hosur Tk – 635 114, has proposed Installation of New API Unit with production capacity of 3336 TPA at Plot No. S-112, S-113, S-114, Mukundarayapuram Village, Ranipet SIPCOT Industrial Complex, Phase-III, Wallajah Taluk, Ranipet District, Tamil Nadu under Category B2 – 5(f) - API. An application submitted by me seeking environmental clearance under the EIA Notification, 2006 is under scrutiny in the Authority. In this regard, I am furnishing the following



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undertaking to the Authority on behalf of M/s. Nanjil Industries, for whom I am the Authorized Signatory.

Commitment on “Zero Discharge”:

The entire waste water segregated as Lean/High Concentration Effluent will be treated in a Tertiary Treatment Consisting of RO/MEE, and entire recovered water will be resued back in process thus resulting in “Zero Discharge” of waste water from the plant.

Commitment on “No Drawal of Ground Water”:

The entire water requirement will be met from SIPCOT Supply, and there will be No Drawal of Ground Water by us during operation, except during construction phase.

Commitment on Air Pollution Control to Limit VOC emission:

The emissions Point / fugitive will be entirely passed through 2-Nos. of acid, alkali scrubber, and thus obviate any VOC emissions.

Commitment to follow the Safety Measures:

All safety measures proposed in our applications, EMP, Presentation & commitments made to SEACTN / SEIAATN will be adhered to ensure safety of employees/environment.

Commitment on Greenbelt:

I commit that the total greenbelt will be developed in an area of 0.4126 ha. which is about 34% of the total land area of 1.21 ha, which will inter alia include “3” m width greenbelt along boundary of the plant.

Commitment towards CER:

We commit to allocate Rs.8.00 Lakhs exclusively for Corporate Environment Responsibility (CER) which is 2% of Project Cost of Rs.4.00 Crores, and will implement imperative social requirements in consultation with SIPCOT/District Collector, and half yearly compliance report will be submitted to the Regional Office of the MoEF as also to the District Collector.

Commitment towards Disposal of Hazardous Waste:

It is committed to dispose Hazardous Waste as follows:

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| Name of Process | Name of Process Waste (Category No) | Quantity (T/year) | Waste Type | Waste Storage | Waste Disposal |
|---|---|-------------------|--------------|----------------------------|--|
| 5. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications | 5.1 – Used or spent oil | 0.5 | Recyclable | MS Drums | Recover and Reuse - CPCB Authorized recyclers |
| 6. Industrial operations using mineral or synthetic oil as lubricant in hydraulic systems or other applications | 5.2 – Waste or residues containing oil | 0.5 | Recyclable | MS Drums | Recover and Reuse – CPCB Authorized recyclers |
| 20. Production and / or Industrial use of Solvents | 20.4 – Process Sludge | 0.2 | Landfillable | HDPE Bags | Common Landfill - TSDF |
| 33. Handling of hazardous chemicals and wastes | 33.1 – Empty barrels / containers / liners contaminated with hazardous chemicals / wastes | 670.0 | Recyclable | Empty Barrels / Containers | Recover and Reuse – CPCB Authorized recyclers / Landfill at TSDF |
| 35. Purification and treatment of exhaust air/gases, water and waste water from the processes in this schedule and common industrial effluent treatment plants (CETP's) | 35.3 – Chemical sludge from waste water treatment | 60.0 | Landfillable | HDPE Bags | Common Landfill - TSDF |
| 37. Hazardous waste | 37.3 – | 350.0 | Landfillable | HDPE | Common |




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| | | | | | |
|--|---|--|--|------|--------------------|
| treatment processes, e.g., pre-processing, incineration and concentration | Concentration or evaporation residues | | | Bags | Landfill - TSDf |
|--|---|--|--|------|--------------------|

Commitment on Project Status:

I commit to SEIAA, that I have not started any construction activity at site at present pertaining to the New API Project proposed.


Commitment signed by me on the 2nd day of April 2021, as a project proponent before the SEIAA, Tamil Nadu.

Appraisal by SEAC:-

The proposal was placed in 176th SEAC meeting held on 19.09.2020 & 201st SEAC meeting held on 12.02.2021. Based on the proponent presentation and documents furnished, the SEAC decided to recommend the project proposal for grant of Environmental Clearance subject to the following conditions, in addition to standard conditions stipulated by the MoEF&CC:

1. The project proponent shall maintain the Green belt area not less than 33% of the land area all along the periphery of the unit and maximum green belt shall be maintained in the down wind direction as reported. Selection of plant species shall be as per the CPCB guidelines in consultation with the State Forest Department.
2. 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.
3. 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.
4. The proponent shall strictly follow the norms and guidelines mentioned in the Hazardous waste (Management) Rules, 2016 for the handling and disposal of Hazardous waste to be generated.
5. 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




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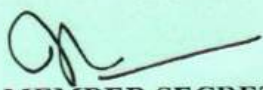


- health surveillance (OHS) aspects through the outsourced training from the experts available in the field of OHS for ensuring the health standard of persons employed.
6. The project proponent shall obtain necessary permission from Competent Authority for the extraction of Ground water.
 7. Necessary permission letter for the supply of water shall be obtained from the competent authority before obtaining consent from TNPCB.
 8. The effluent generated from the process should be treated through the ETP to achieve the treated effluent standards prescribed by the CPCB.
 9. The proponent shall implement the zero-liquid discharge in the factory.
 10. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
 11. The proponent shall continuously operate and maintain the Air-pollution control measures.
 12. The proponent should continuously monitor the VOC and ensure that VOC levels are within permissible limits.
 13. The proposed Solvent storage area should not be placed near by the boiler, further the proponent may submit the safety measures on the same.
 14. A detail report on the safety measure and health aspects of the workers shall be submitted.
 15. As per the MoEF&CC Office Memorandum F.No. 22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP mentioning all the activities as proposed in the CER and furnish the same before placing the subject to SEIAA.

Discussion by SEIAA and the Remarks:-

The proposal was placed before the SEIAA in its 434th Meeting held on 25.03.2021. After detailed discussion, the Authority unanimously accepts the recommendation of SEAC and decided to grant Environmental Clearance subject to the conditions as recommended by SEAC & normal condition in addition to the following condition.




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1. As per the MoEF & CC office memorandum F.No.22-65/2017-IA.III dated: 30.09.2020 and 20.10.2020 the proponent shall furnish the detailed EMP to TNPCB, mentioning CER activities as committed. The CER activities 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 stipulated below:

(A) Statutory compliance

- i. The project proponent shall obtain forest clearance under the provisions of Forest (Conservation) Act, 1986, in case of the diversion of forest land for non-forest purpose involved in the project.
- ii. The project proponent shall obtain clearance from the National Board for Wildlife, if applicable.
- iii. The project proponent shall prepare a Site-Specific Conservation Plan & Wildlife Management Plan and approved by the Chief Wildlife Warden. The recommendations of the approved Site-Specific Conservation Plan / Wildlife Management Plan shall be implemented in consultation with the State Forest Department. The implementation report shall be furnished along with the six-monthly compliance report. (in case 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.



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- 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 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.




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- 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.




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- vii. The DG sets shall be equipped with suitable pollution control devices and the adequate stack height so that the emissions are in conformity with the extant regulations and the guidelines in this regard.

(D) Noise monitoring and prevention:

- i. Acoustic enclosure shall be provided to DG set for controlling the noise pollution.
- ii. The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation.
- iii. The ambient noise levels should conform to the standards prescribed under E(P)A Rules, 1986 viz. 75 dB(A) during day time and 70 dB(A) during night time.

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

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




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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: 30.09.2020 and 20.10.2020, as applicable, regarding Corporate Environment Responsibility.
- ii. The company shall have a well laid down environmental policy duly approve by the Board of Directors. The environmental policy should prescribe for standard operating procedures to have proper checks and balances and to bring into focus any infringements/deviation/violation of the environmental / forest /wildlife norms/ conditions. The company shall have defined system of reporting infringements / deviation / violation of the environmental / forest / wildlife norms / conditions and / or shareholders / stake holders. The copy of the board resolution in this regard shall be submitted to the MoEF&CC as a part of six-monthly report.
- iii. A separate Environmental Cell both at the project and company head quarter level, with qualified personnel shall be set up under the control of senior Executive, who will directly to the head of the organization.
- iv. Action plan for implementing EMP and environmental conditions along with responsibility matrix of the company shall be prepared and shall be duly approved by competent authority. The year wise funds earmarked for environmental protection measures shall be kept in separate account and not to




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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.

(G) Waste management:

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

(H) SPECIFIC CONDITIONS:


- (i) It is mandatory for the project proponent to furnish to the SEIAA, Half yearly compliance report in hard and soft copies on 1st June and 1st December of each calendar year in respect of the conditions stipulated in the prior Environmental clearance issued.




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- (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.
- (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.

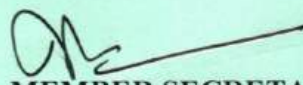



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- (xii) The Plastic wastes shall be segregated and disposed as per the provisions of Plastic Waste (Management & Handling) Rules 2016.
- (xiii) The e - waste generated should be collected and disposed to a nearby authorized e-waste centre as per e 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_{10} , $PM_{2.5}$, SO_x , NO_x) through TNPCB/NABL Accredited Laboratory and maintain records of the same and it should be made available at the time of inspection.
- (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.




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- (xxiii) The industry shall conduct air sampling at least twice in a week (104 times in a year), as stipulated under EP Act 1986.
- (xxiv) Risk cum disaster management plan should be in placed in the industry premises at all time.
- (xxv) Water conservation scheme including rain water harvesting measures to augment ground water resources shall be implemented so as to collect and reuse the entire rainwater harvested as a supplement to fresh water.
- (xxvi) The natural drainage pattern in the project area shall be maintained and storm water drain along the boundary and appropriate places shall be provided considering the Catchment area and maximum intensity of rainfall to collect runoff water/rain water for proper disposal to avoid flooding around the premises.
- (xxvii) The Environmental Clearance is issued without prejudice to any order that may be passed by the Hon'ble NGT/ Honb'le High Court of Madras.
- (xxviii) All the assurances given in EIA and EMP shall be adhered strictly.
- (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.




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- (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.
- (xxxvii) The EMP cost of Rs. 35 Lakhs per annum 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 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.
- (xl) The operation of the activity should not impact on the soil, micro flora & Fauna present in and around the project site.
- (xli) 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.
- (xlii) The project proponent shall take up better housekeeping measures including scraps disposal and up keeping the machineries, pipes, etc.
- (xlili) 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




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been accorded environmental clearance and a copy of the clearance letter is available with TNPCB.

- iii. A copy of the Environmental Clearance shall be sent by the project proponent to concerned local body and local NGO, if any from whom suggestions/representatives, if any were received while processing the proposal.
- iv. The project proponent shall monitor the criteria pollutants level namely; PM₁₀, SO₂, NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the projects and display the same at a convenient location for disclosure to the public and put on the website of the company.
- v. The Environmental Clearance shall also be put on the website of the company.
- vi. No expansion or modernization in the project shall be carried out without prior approval of the SEIAA-TN. In case of any deviations or alterations in the project proposal from those submitted to this Authority for clearance, a fresh reference shall be made to the SEIAA-TN to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.
- vii. All the environmental protection measures and safeguards as recommended in the EIA report shall be complied with.
- viii. The project proponent shall submit the environmental statement for each financial year in Form-V to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently and put on the website of the company.
- ix. The implementation of the project vis-à-vis environmental action plans shall be monitored by the Regional office of MoEF& CC at Chennai, TNPCB and CPCB. A six monthly compliance status report shall be submitted to monitoring agencies regularly.
- x. Data on ambient air, stack and fugitive emissions shall be regularly submitted online to the Regional office of MoEF&CC,GOI, at Chennai, TNPCB and Central Pollution Control Board as well as hard copy once in six months and display data on RSPM, SO₂ and NO_x outside the premises at the appropriate place for the general public.




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- xi. Occupational health surveillance of the workers shall be done on a regular basis and records maintained as per the Factories Act.
- xii. Proper house-keeping and cleanliness must be maintained within and outside the plant.
- xiii. Occupational health surveillance programme shall be undertaken as regular exercise for all the employees, especially for those engaged in handling hazardous substances. The first aid facilities in the occupational health centre shall be strengthened and the medical records of each employee should be maintained separately.
- xiv. The overall noise levels in and around the plant area shall be kept well within the standards prescribed for by providing noise control measures including acoustic hoods, silencers, enclosures etc. on all sources of noise generation. The ambient noise levels should conform to the standards prescribed under EPA Rules, 1989 viz. 75dBA (day time) and 70 dBA (night time).
- xv. A separate Environmental Management Cell equipped with full fledged laboratory facilities to carry out the various Environmental Management and Monitoring functions shall be set up under the control of a Senior Executive.
- xvi. The requisite amount earmarked towards capital cost and recurring cost/annum for implementing pollution control measures shall be used judiciously to implement the Environment Management Plan as furnished in the EIA report. The funds so provided shall not be diverted for any other purposes.
- xvii. The project proponent shall upload the status of compliance of the stipulated environmental clearance conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of the MOEF&CC,GOI at Chennai, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely; RSPM, SO₂, NO_x (ambient levels as well as stack emissions) or critical sector parameters, indicated for the projects shall be monitored and displayed at a convenient location near the main gate of the company in the public domain.




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- xviii. The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of environmental conditions and shall also be sent to the respective Regional Offices of the MOEF by e-mail.
- xix. Environmental Clearance is being issued without prejudice to the action initiated under Environment (Protection) Act, 1986 or any court case pending or any other court order shall prevail.
- xx. The SEIAA, TN may alter/modify the above conditions or stipulate any further condition in the interest of environment protection.
- xxi. The SEIAA/SEAC or any Competent Authority may suitably add any further condition(s) on receiving reports from the project authority. The above condition shall be monitored by the Regional Office of MoEF located at Chennai.
- xxii. The SEIAA, TN may revoke or suspend the Environmental clearance, if implementation of any of the above conditions is not satisfactory.
- xxiii. The SEIAA, TN may cancel the environmental clearance granted to this project under the provisions of EIA Notification, 2006, if, at any stage of the validity of this environmental clearance, if it is found or if it comes to the knowledge of this SEIAA, TN that the project proponent has deliberately concealed and/or submitted false or misleading information or inadequate data for obtaining the environmental clearance.
- xxiv. Failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and attract action under the provisions of the Environment (Protection) Act, 1986.
- xxv. The SEIAA-TN reserves the right to stipulate additional conditions if found necessary. The industry in a time bound manner shall implement these conditions.
- xxvi. The above conditions will be enforced inter-alia, under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of

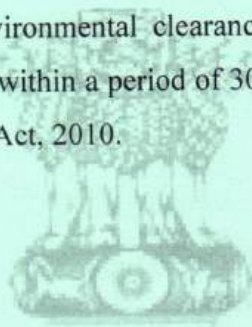



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Pollution) Act, 1981, the Environment (Protection) Act, 1986, the Public Liability Insurance Act, 1991, along with their amendments ,draft Minor Mineral Conservation & Development Rules, 2010 framed under MMDR Act 1957,National Commission for protection 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.



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Copy to:-

1. The Additional Chief Secretary to Government,
Environment & Forests Department,
Govt. of Tamil Nadu, Fort St. George,
Chennai - 600 009.
2. The Chairman,
Central Pollution Control Board, Parivesh Bhavan,
CBD Cum-Office Complex, East Arjun Nagar,
New Delhi - 110 032.
3. The Member Secretary,
Tamil Nadu Pollution Control Board,
76, Mount Salai, Guindy,
Chennai - 600 032.
4. The ACCF(C), Regional Office of MoEF,
34, HEPC Building, 1st & 2nd Floors, Cathedral Garden Road, Nungambakkam,
Chennai - 600 034.



5. Monitoring Cell, I A Division,
Ministry of Environment & Forests,
Paryavaran Bhavan, CGO Complex,
New Delhi - 110 003.
6. The District Collector, Vellore District.
7. Stock File.



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