

TNPCB/RPT/F5/01/25

08.09.2025

To  
District Environmental Engineer,  
Tamil Nadu Pollution Control Board,  
Polt No: HIG A-417 THHB Colony,  
Seekarajapuram, Walajah Taluk,  
Ranipet - 632515

Dear Sir,

SUB: Submission of environmental statement for the financial year ending 31<sup>st</sup> March 2025

We are hereby submitting the environmental statement in Form-5 for the financial year ending 31<sup>st</sup> March 2025.

Kindly acknowledge the receipt of this letter.

Thanking you,

Yours truly,

For, Nanjil Industries,

General Manager



**ENVIRONMENT STATEMENT**

**"FORM 5"**

(See Rule 14)

Environmental Statement for the financial year ending 31<sup>st</sup> March 2025

**PART-A**

1.	Name and address of the owner/ Occupier of the industry operation or process	UDAYA KUMAR, NANJIL INDUSTRIES, S.F.No.105/1 (Part), 105/2 (Part), 105/4 (Part), 108/1B/S-112, S-113, S-114, SIPCOT Industrial Complex, Phase III, Mukundarayapuram Village, Walajah Taluk, Ranipet District -632405			
2.	Industry Category	1060-Pharmaceuticals (excluding formulation)			
	Primary – (STC Code)	1060			
	Secondary – (STC Code)	Red - Large			
3.	Production Capacity – Units	<b>Description</b>	<b>Production in MT</b>	<b>Permissible limit as per consent</b>	<b>Unit</b>
		Chloroxylenol (PCMX)	1225.44	1500	Tons/Annum
		Thione	202.24	501	Tons/Annum
		Amine	0	960	Tons/Annum
		Cupric Chloride	0	375	Tons/Annum
4.	Year of Establishment	July -2021			
5.	Date of the last environmental statement Submitted	27/08/2024			
6.	Address of the Factory / Unit	NANJIL INDUSTRIES, S.F.No.105/1 (Part), 105/2 (Part), 105/4 (Part), 108/1B/S-112, S-113, S-114, SIPCOT Industrial Complex, Phase III, Mukundarayapuram Village, Walajah Taluk, Ranipet District -632405			

**PART – B**

**Water & Raw Material Consumption**

- i. Water Consumption m<sup>3</sup>/d  
 Process : 42.61 m<sup>3</sup>/day  
 Cooling : 6.86 m<sup>3</sup>/day
- ii. Domestic : 3.5 m<sup>3</sup>/day (Including Gardening)

Name of the products	Process water consumption per unit of Product output.	
	During the Previous Financial Year (2023-2024)	During the Current Financial Year (2024-2025)
Chloroxylenol (PCMX)	1.0 liter /Kg of PCMX	0.93 liter /Kg of PCMX
Thione	12.0 liters / Kg of Thione	11.74 liters / Kg of Thione

Name of Product	Name of the Raw materials	Consumption of Raw Material per unit of output	
		During the Previous financial Year (2023-2024) (Kg per kg of Output)	During the Current Financial Year (2024-2025) (Kg per kg of Output)
Chloroxylenol (PCMX)	Meta xylenol	0.832	0.832
	Cupric Chloride	0.054	0.053
	Chlorine	0.493	0.495
	Dilute Hydrochloric Acid	0.701	0.694

Name of Product	Name of the Raw materials	Consumption of Raw Material per unit of output	
		During the Previous financial Year (2023-2024) (Kg per kg of Output)	During the Current Financial Year (2024-2025) (Kg per kg of Output)
Thione	2-Chloro Pyridine	1.03	1.02
	Acetic Acid Glacial	1.01	1.01
	Maleic Anhydride	0.25	0.26
	Sulphuric Acid	0.04	0.04
	Hydrogen Peroxide-50%	1.47	1.46
	Sodium Sulphide	1.88	1.86
	Caustic Lye	1.14	1.12
	Hydro Choric Acid	6.57	6.00

**PART - C**

**Pollution discharged to environment/unit of output**

(Parameter as Specified in the consent issued)

<b>Pollutants</b>	<b>Quantity of pollutants discharged (Kg/day)</b>	<b>Concentration of Pollutant in discharges (mg/ Ltr.)</b>	<b>Percentage of variation from prescribed standards with reasons</b>
a) Water pH	7.95	7.95	No variations. The quality of STP-treated water is as per the standards prescribed by the Board
TSS	0.069	69009.90	
BOD	0.044	43812.87	
<b>Pollutants</b>	<b>Quantity of pollutants discharged (Kg/day)</b>	<b>Concentration of Pollutant in discharges (mg/ M<sup>3</sup>)</b>	<b>Percentage of variation from prescribed standards with reasons</b>
b) Air SPM	1.3	68.43	No variations. All parameters are within the norms prescribed by the Board
SOX	0.4	22.75	
NOX	1.2	34.66	
HCL	0.0	0.00	
CO	0.269	133.66	

**PART D**

**Hazardous Wastes**

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

Hazardous Waste		Total Quantity (MT)	
		During the Previous Financial Year (2023-2024)	During the Present Financial Year (2024-2025)
(a) From Process	5.1 Used/Spent oil	0.19	0.00
	5.2 Wastes or residues containing oil	0.20	0.050
	28.1 Process Residue and wastes	29.03	35.70
(b) From Pollution Control Facilities	35.3 Chemical sludge from wastewater treatment	123.1	436.42

**PART -E**

Solid Wastes	Total Quantity (Kg)	
	During the Previous financial year (2023-2024)	During the Present financial year (2024-2025)
(a) From Process		
i. Empty Drums – Metals	36594	81696
ii. Empty Drums - Plastic	3852.0	7200
(b) From pollution Control Facilities		
i. Quantity recycled or re-utilized within the unit	Recycled	Recycled
ii. Solid	0.00	0.00
iii. Wood Waste	355.0	410
iv. Paper Waste	914.0	960
v. Metal Waste	3200.0	4100
vi. Plastic Waste	1312.0	1240



**PART -F**

**Please specify the Characterizations (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practices adopted for both these categories of Wastes.**

**(1) Hazardous Wastes**

Parameters	Used oil	Waste or residue containing oil	Process Residue and wastes	Chemical sludge from wastewater treatment
Quantity	0.00 MT	0.050 MT	35.70 MT	436.42 MT
State	Liquid	Solid	Solid	Solid
Specific Gravity	0.9	NA	NA	NA
Percentage Solids	0-1%	100%	100%	100%
Chemical Composition	High Boiling hydrocarbons in the form of water emulsions	NA	A mixture of metal sulphates, chlorides,	A mixture of metal sulphates, chlorides,
Flash Point	Non- Flammable	Non- Flammable	Non- Flammable	Non- Flammable
Reactivity	Non - reactive	Non-reactive	Non - reactive	Non - reactive
Toxicity	Non - Toxic	Non - Toxic	Non - Toxic	Non - Toxic
Explosivity	Non - Explosive	Non - Explosive	Non - Explosive	Non - Explosive
Calorific Value	Unknown	Not applicable	Unknown	Unknown
Biodegradability	Non-Biodegradable	Non-Biodegradable	Non-Biodegradable	Non-Biodegradable
Method of disposal	Proposed to Send an authorized PCB Recycler	Proposed to Send an authorized PCB Recycler	Proposed to Send an authorized PCB Recycler	Proposed to Send an authorized PCB Recycler

**(2) Solid Wastes:**

SI No.	Parameters	Paper Waste	Metal Waste	Plastic Waste
1	Quantity	914 Kgs	3200 Kgs	1312 Kgs
2	Chemical composition	Waste coming from rejected Packing material and other metal waste	Waste coming from rejected Packing material and other metal waste	Waste coming from rejected Packing material and other
3	Disposal Method	Sold as scrap	Sold as scrap	Sold as scrap

*(Signature)*

## PART-G

### Impact of the pollution Abatement measures taken on the conservation of natural resources and on the cost of production

1. In our ETP operation we have primary, secondary and Tertiary treatment of equipment's and with that we achieved "Zero Discharge" in our trade effluent. Treated water is being used in the cooling tower system and boiler as feed water.
2. All the Air Pollution Control Measures have been monitored efficiently and effectively.
3. Efficiently maintained Alkali Scrubber system provided for Chlorination vessels and ensured that no Chlorine is escaping out of the system. We have already increased the diameter of the scrubber tower column from the existing 200mm to 400mm, with suitable packing material for efficient scrubbing.
4. This system will always ensure an adequate supply of alkali for any accidental chlorine vapors coming out of the system.
5. In ETP all inlet & outlet lines provided the Electro Magnetic flow meters
6. RM of Meta xylenol used in the process. It is in solid form and we are melting it by dipping the drums in a hot water bath. We have provided temperature control to avoid steam wastage and by the way, conserve natural resources.
7. The quantity of the effluent generated, the quality of the ambient air and the quality of treated water are all as per the limits prescribed in our consent order.

## PART-H

### Additional measures/investment proposal for environmental protection including Abatement of pollution, prevention of pollution

1. PCMX scrubber tower circulation centrifuge pump replaced with vertical pump for trouble free and continuous water flow for spray. It is being running smoothly and maintenance free. Cost- Rs 1.0 lacs
2. Softener unit installed for soft water being used as boiler feed. With that boiler blowdown water quantity drastically came down. – Cost Rs 5 lakhs
3. Thione both the tower separate alkali circulation line pump installed to improve the scrubbing effectiveness. Cost – 75 thousand.



4. We are planning to replace centrifuge pumps with vertical pumps for. PCMX secondary tower water circulation & Thione scrubber tower circulation pumps.
5. PCMX scrubber tower water spray nozzles modified and saddles top up done for better scrubbing.
6. Planning for 1500 saplings in the site empty land area. – Rs 50 thousand. Already 1000 nos plant sapling completed.
7. Chlorine emergency alkali scrubber stands by ID fan purchased and keep ready. Cost-50 thousand
8. Process chlorine alkali scrubber renovated and with additional spray system to take care of neutralize the excess chlorine. **Cost – 1.25 lacs**
9. ETP – Sand bed & MGF's, ACF's media replaced. RO membrane replaced – Cost 5 lacs
10. Safety & Environmental audit done by External expert and finding being rectified.
11. ATFD existing one frequent break down and after aligned with board higher capacity new ATFD with Duplex MOC installed. Now system running smoothly. Cost- 1crore.

#### PART-I

##### Any other particulars for improving the quality of the environment

1. We are planning to conduct an Energy audit in the year 2026.
2. We are planning to go for Site ISO 14001 certification.
3. OCMMS online connectivity to WQW & CPCB work is under progress and by Dec-25 it will be completed.
4. "Mission Life" training provided to all the employees for awareness and in site as well as employee in home being followed.
5. We are planning to up grading of the existing of Rainwater harvest. Already work under progress.

