

Coromandel/ SHE/ MoEF / 04 / 2024

2<sup>nd</sup> April 2024

To,

The Additional Principal Chief Conservator of Forests(C)  
Ministry of Environment & Forest and Climate change  
Regional office (Southeastern Zone)  
1<sup>st</sup> & 2<sup>nd</sup> Floor Handloom Export Promotion Council  
34, Cathedral Garden Road  
Nungambakkam  
Chennai - 600034

Sir,

**Sub:** Half Yearly Report – Oct 2023 to March 2024

Here with enclosed our **Compliance status of CRZ Clearance to Permission for Submarine Pipe-line system for imported Ammonia at Ennore Coast under CRZ notification. vide F. No J-17011/9/94-IA III (I) dated 17<sup>th</sup> June 1994.** for the period of October – 2023 to March – 2024.


Thanking You,

Yours Faithfully

For Coromandel International Limited,



**S. Ramesh**

 Sr. General Manager – Manufacturing

CC to:

1. Regional Officer – CPCB, SE Zonal, Chennai
2. Joint Chief Environmental Engineer, Chennai.

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Secunderabad - 500 003, Telangana, India.



**Compliance status of CRZ Clearance**  
**No. J- 17011 /9 /94 - IA.III dated 17.06.1994.**

S. No	Specific Condition	Status
1	The entire length of the pipe-line should be under- ground except at the factory location.	The entire pipeline was buried under the ground during the installation as per condition 1 of CRZ clearance dated 17-06-1994. However, the shore area started shrinking over a period due to sea erosion. The public work department constructed boulder wall to prevent erosion, during the time the unit had constructed the corridor structure to protect the pipeline which is visible near the shore after getting approval from CRZ clearance dated 09-02-2010
2	The project authorities would take all precautions and adopt full safety measures for handling of ammonia. Adequate precautions for the handling of ammonia vapours in case of emergency situation arising out of the closure of the plant should also be taken.	The unit has installed the DCS to monitor the process parameters continuously. The Automatic process and safety trips and interlocks were configured to prevent possible leakage. Ammonia Vapor is being handled through compressors. Flare arrangement is also installed to handle the excess ammonia vapor in case of emergency. Emergency DG sets and Instrument Air compressors were installed to handle emergency scenario especially power failure.
3	The proponents should prepare a proper Disaster Management Plan and a Contingency Plan for any eventuality in the event of ammonia leakage from the pipe-line or the storage tank, and submit the same to the Ministry within three months of the issue of the clearance letter.	The unit has also prepared a Disaster Management Plan and Emergency Preparedness Plan for Ammonia handling locations prepared for Industrial Safety and Risk Analysis - CLRI in the year February 1995 and the same submitted to concerned authorities.
4	The project authorities would adhere to the stipulations made by the Tamil Nadu Pollution Control Board and the State Government on safety/ environmental issues	The conditions given in the consent order is complied.



5	The hazardous waste should be handled as per the Hazardous Wastes (Management & Handling) Rules, 1989 of the Environment (Protection) Act, 1986.	The Unit has maintained the Hazardous waste as per Manufacture, Storage, and Import of Hazardous Chemicals Rules, 2016.
6	Handling, manufacture, storage and transport of hazardous chemicals should be carried out in accordance with the Manufacture, Storage and Import of Hazardous Chemicals Rules, 1909	In compliance to Manufacture, Storage and Import of Hazardous Chemicals (MSIHC) Rules 1989, we carried out an Independent Comprehensive safety audit by engaging credible agency covering all the plant and industrial activities including Offshore Ammonia pipelines.
7	The project authorities should prepare and submit detailed quantitative risk assessment report along with on-site and off-site emergency preparedness plan (EPP) especially for ammonia stored within the premises of the fertilizers plant as required under the rules 13 and 14 of the Manufacture Storage and Import of Hazardous Chemicals Rules, 1989 within six months. EPPs should have approval from the Competent authorities	The unit has conducted the Quantitative Risk assessment with CLRI under the Rules 13 and 14 of the Manufacture, Storage, and Import of Hazardous Chemicals Rules, 1989. The same report submitted to concern authorities.
8	Adequate number of effluent and ground water monitoring stations should be set up in consultation with the State Pollution Control Board. Regular monitoring should be carried out for relevant parameters.	The unit has been analyzed the ground water (Piezo well), STP treated water and MED reject water on monthly basis. The report is being submitted to SPCB. The Compliance report along with water analysis report was submitted to MoEF. <b>The last six-month data is attached as Annexure</b>
9	This Ministry or any competent authority may stipulate any further condition(s) subsequently for the project.	Noted.



Coromandel International Limited												
Ennore, Chennai -57												
Piezo Bore well Samples result for Oct - 23 to Mar -24												
Location: SAP - 2												
All parameters are in mg/l except pH												
Parameters	pH	TSS	TDS	Cl	Sulphates	Oil & Grease	BOD	COD	T. Phosphates	Ammonical Nitrogen	Fluoride	
Oct-23	6.9	48	3900	330	205	<10	<5	60	1.5	<1	1.2	
Nov-23	6.9	45	3700	310	190	<10	<5	55	1.4	<1	1.2	
Dec-23	6.9	42	3600	300	180	<10	<5	50	1.3	<1	1.1	
Jan-24	6.9	40	3500	280	170	<10	<5	50	1.3	<1	1.1	
Feb-24	6.9	42	3650	300	176	<10	<5	55	1.3	<1	1.1	
Mar-24	6.9	36	3800	300	190	<10	<5	55	1.4	<1	1.1	
Location: Near WTP												
All parameters are in mg/l except pH												
Parameters	pH	TSS	TDS	Cl	Sulphates	Oil & Grease	BOD	COD	T. Phosphates	Ammonical Nitrogen	Fluoride	
Oct-23	6.8	72	3750	350	210	<10	<5	76	1.6	3	1.3	
Nov-23	6.8	68	3600	320	200	<10	<5	70	1.5	3	1.3	
Dec-23	6.8	64	3300	310	180	<10	<5	64	1.4	3	1.2	
Jan-24	6.9	60	3200	300	174	<10	<5	65	1.4	3	1.2	
Feb-24	6.9	64	3300	310	182	<10	<5	70	1.4	3	1.2	
Mar-24	6.9	62	3600	340	190	<10	<5	68	1.5	3	1.2	



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Piezo Bore well Samples result for Oct- 23 to Mar -24											

### Location: Near Stores

All parameters are in mg/l except pH

Parameters	pH	TSS	TDS	Cl	Sulphates	Oil & Grease	BOD	COD	T. Phosphates	Ammonical Nitrogen	Fluoride
Oct-23	6.9	68	3800	360	250	<10	<5	74	1.5	3	1.2
Nov-23	6.9	65	3700	340	230	<10	<5	70	1.5	3	1.2
Dec-23	6.9	60	3400	320	210	<10	<5	66	1.4	3	1.1
Jan-24	6.9	58	3300	360	196	<10	<5	68	1.4	3	1.1
Feb-24	6.9	61	3350	305	204	<10	<5	72	1.4	3	1.1
Mar-24	6.9	62	3700	320	204	<10	<5	70	1.5	3	1.2

### Location: Near STP

All parameters are in mg/l except pH

Parameters	pH	TSS	TDS	Cl	Sulphates	Oil & Grease	BOD	COD	T. Phosphates	Ammonical Nitrogen	Fluoride
Oct-23	7.1	18	1700	190	68	<10	<5	18	<1	<1	<0.1
Nov-23	7.0	16	1450	132	62	<10	<5	15	<1	<1	<0.1
Dec-23	7.0	14	1450	95	48	<10	<5	12	<1	<1	<0.1
Jan-24	7.0	12	1400	105	45	<10	<5	14	<1	<1	<0.1
Feb-24	7.1	16	1600	160	56	<10	<5	18	<1	<1	<0.1
Mar-24	7.1	18	1750	220	65	<10	<5	16	<1	<1	<0.1

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Ennore, Chennai -57				
Sewage Treated Water Analysis Report for OCT - 2023 to MAR -2024				
All parameters are in mg/l except pH				
Parameters	pH	TSS	BOD	
Oct-23	7.4	2	<5	
Nov-23	7.4	3	<5	
Dec-23	7.3	2	<5	
Jan-24	7.1	3	<5	
Feb-24	7.2	2	<5	
Mar-24	7.5	2	<5	



**Coromandel International Limited**

**Ennore, Chennai -57**

## MED outlet Sea Water analysis report for Oct - 2023 to Mar - 2024

All parameters are in mg/l except pH

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