

Coromandel International Limited

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Coromandel/ SHE/ MoEF / 10/ 2025

28th October 2025

To,

The Deputy Director General of Forests.

Ministry of Environment & Forest and Climate change Integrated Regional office

1st Floor, Additional Office Block for GPOA

Shastri Bhawan, Haddows Road

Nungambakkam, Chennai - 600006

Sir,

Sub: Half Yearly Report - April 2025 to September 2025.

Here with enclosed our MoEF Clearance – Compliance status & half yearly report of Stack, Ambient Air Quality & Ground water analysis for the period of April – 2025 to September – 2025.

Thanking You,

Yours Faithfully

For Coromandel International Limited,

R. Shanmugam

Associate Vice President - Manufacturing.

CC to:

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



Compliance status of Environment Clearance F. No. J-11011/358/2007-IA II (I)

S.	No	Specific Condition	Status
		The expansion of the project shall be based on process improvement, technology innovation, improving on stream hours, maximization of equipment capacity and continuous supply of raw materials. No additional Sulphuric acid and phosphoric acid plant shall be installed for additional requirement of Sulphuric and phosphoric acid which shall be met by importing. Due to enhancement of production pollution load shall not increase from the existing load.	Complied with The unit has improved the production capacity and improved the energy recovery system by using advanced technology as per revised EC conditions, after that there is no changes in production equipment and technology 1. Captive Power Plant — Load increased 2. Steam based Thermo — Compressor installed instead of Electrical Blower 3. Low Pressure Steam reused in Multi-Effect Desalination Plant 4. Blow down water is being reused
		The project authorities shall install efficient scrubbing system to control fluorine emission and bag filters for dust control in phosphoric acid plant.	in process Phosphoric plant has Fluorine scrubber with Kimre Mesh.and the stack emission is 10mg/ Nm3 against the Norm of 20 mg / Nm3. The Rock grinding system have Bag filter which will be controlling dust emission is 50 mg/Nm3 against the Norm of 125 mg/Nm3.
	Ш.	Multistage scrubbing system shall be installed to control ammonia and suspended particulate matter in fertilizer plant.	Fertilizer plants have 5 stage scrubbing systems for controlling Ammonia and dust.
	IV.	The project authority shall install dust collection system in fertilizer bagging plant.	The bagging section has Dry cyclone and Venturi scrubber for controlling dust.
		The Sulphuric Acid Plant shall be based on double conversion double absorption technology and anodic alloy protected acid coolers shall be provided. Start-up scrubbers shall be installed in both Sulphuric acid plants to minimize SO ₂ emission during start-up.	Both Sulphuric Plants are designed DCDA (Double Conversation Double Absorption) Process., Chemetic coolers for acid cooling and Startup scrubber. Also, a highly efficient catalyst is being used for meeting the standards.

i, r		The	
	VI.	The project authority shall install high efficiency scrubber nozzles, additional	
		efficiency scrubber nozzles, additional tailgas scrubber, improve the scrubber	Nozzle for better scrubbing.
		efficiency by optimizing the L/G ratio,	Additional Tail gas scrubber was
		install additional cyclones in scrubbing	installed in Fertilizer plant. Also,
		system and install mist eliminators in	Cyclone is installed in the system and also mist eliminator there in place.
		scrubbers.	also mist emimator there in place.
		Seruobers.	
1	VII.	The proponent shall not withdraw	Unit is not with drawing ground water
		groundwater for the plant.	from the plant. Also, we are having Sea
			water used Multi Effect Desalination
			plant from which considerable quantity
			of water requirement.
	VIII.	The company shall develop the green belt in	The unit has developed green belt even
		atleast 25% land area to mitigate the effect	inside the plant area and has planned to
		of fugitive emissions and noise as per the	improve further and covered more than
		guidelines CPCB.	25 % of the area.
-	**/	TN	
	IX.	The company shall implement all the	Complied with. – Annexure
		recommendations made in the Charter on	
		Corporate Responsibility for Environmental	
-		Protection (CREP) for fertilizer industries	
-	<u> </u>	General Condition	
		The project authorities shall strictly adhere	Complied with
		to the stipulations of the SPCB/state	
-	li .	government or any statutory body.	
		The gaseous emissions (SO ₂ , SO ₃ , NO _x , NH ₃ , F, fertilizer dust) and particulate matter	All the plant stacks are monitored
		from various process units shall conform to	regularly, and the emissions are well
		the standards prescribed by the concerned	within the limit. Half yearly report regarding emission has been submitted
		authorities from time to time. Emission data	to Ministry's Regional Office, CPCB
		shall be periodically monitored, and reports	and SPCB.
		submitted to Ministry's Regional Office,	All the process plant stack installed
		CPCB and SPCB.	online monitoring system all the values
			connected to TNPCB Care Air Centre
	lii	All the waste waters generated from the	All plants are designed as Zero effluent
		various processes shall be recycled/reuse in	system. Spilled water is collected in
		the plant and zero discharge shall be	collection sump and recycled in the
		maintained. The domestic wastewater shall	process itself.
		be treated in septic tanks and treated waste	Unit has Sewage treatment plant and
-		shall be used for irrigation in the green belt	treats water is being used for gardening.
	iv	No further expansion or modifications in the	Any expansion modification will be
		plant shall be carried out without prior	carried out with MoEF approval.
		approval of the Ministry of Environment and	Based on the NIPL (No Increase in
		Forests. In case of deviations or alterations in the project proposal from those submitted	Pollution Load) basis the Fertilizer
L		in the project proposal from those submitted	production capacity increased from

	to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	MT/Annum. Approved by TNPCB based on the Certified compliance
	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	
Vi	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	The unit has installed 3 On- line AAQ monitoring station, and another 4 places monitor through High volume air sampler. As per SPCB requirement, 4 places monitored for PM-10& PM-2.5 and additionally the unit having 3 AAQ online sensors Stack monitoring analyzer installed all the values are connected to TNPCB Care Air Centre
Vii	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	We have provided scrubbers in all the
Viii	All the storage tanks will be under negative pressure to avoid any leakages. Breathe valves, N ₂ blanketing and secondary condensers with brine chilling system shall be provided for all the storage tanks to minimize vapour losses. All liquid raw material shall be stored in storage Tanks and Drums.	Ammonia storage tank designed as Double integrity, double walled tank. Installed 2 Nos Safety Relief valves, Vacuum relief valves, safety trips & interlocks. Total operation & monitoring is safely carried out by DCS control system. Sulphuric Acid & Phosphoric Acid tanks have dyke arrangement to contain any
ix	The company shall undertake the following Waste Minimization measures. Metering and control of quantities of active ingredients to minimize waste.	acid leak. Complied with

	Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. Use of automated filling to	By- Product Gypsum has sold to cement industries N/A
	minimize spillage.	
	Use of "Close Feed" system into batch reactors.	N/A
	 Venting equipment through vapour recovery system. 	Complied with
	Use of high-pressure hoses for equipment cleaning to reduce wastewater generation.	Complied with
X	Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Boards.	Workplace environment monitored regularly and maintained
Xi	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals Rules, 1989 as amended in October 1994 and January 2000	Unit has maintained the Hazardous waste as per Manufacture, Storage, and Import of Hazardous Chemicals Rules, 2016.
	and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCB	Hazardous Waste authorization is valid up to March 31.03.2027.
	shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Unit also have agreement with Tamil Nadu Waste management limited for disposal of Spent catalyst (Vanadium Pent oxide) and other hazardous waste sent to CPCB authorized recycler.
xii	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 under Environment (Protection) Act, 1986 Rules, 1989 viz. 75 dBA (daytime) and 70 dBA (nighttime).	All control rooms have double wall protection and steam vents have silencers. Noise level is being regularly monitored and reported to SPCB. The noise levels are within the limit.

Xiii	The company shall develop rainwater harvesting structures to harvest the runoff water for recharge of ground water	
Xiv	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	It is being regularly conducted as per Factories Act 1948 and Tamil Nadu Factories Rule 1950
Xv	The company shall undertake eco- developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco-development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	The unit is implementing CSR activity-Conducting Medical camp, drinking water supply, Servicing the low-cost medical facility in nearby area (Coromandel Medical Outreach Centre) Conducting Environment Awareness Programme (Tree plantation campaign & waste management awareness) and Sponsoring Computer education courses to nearby village
Xvi	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EMP report.	Unit has ISO 14001 Certification awarded by DNV. Set EMP's every year and make continual improvement.
Xvii	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions	Unit has appointed environmental Engineer. We are having full-fledged lab facility. All the analysis relevant to environment is being done.
Xviii	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds provided shall not be diverted for any other purpose.	Complied with
xix	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A sixmonthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Complied with
Xx	The project proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the SPCB/Committee and may also be	Published in two Local newspapers, one in Dinamalar (Tamil News Paper) another in Deccan Chronicle (English News Paper) on 9 th September 2007.

	seen at Website of the Ministry at	
	http://envfor.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 shall be	
	forwarded to the concerned Regional Office	
	of the Ministry.	
Xxi	The project authorities shall inform the	At present there is no more Project.
	Regional Office as well as the Ministry, the	
	date of financial closure and final approval	If any project arises that will be
	of the project by the concerned authorities	informed to concerned Authority.
	and the date of start of the project	

COROMANDEL INTERNATIONAL LIMITED - ENNORE

Corporate Responsibility for Environment Protection (CREP) Status of Action Plan

Point No	Requirement	Action taken	Results Achieved
	A) WASTEWATER MA	NAGEMENT	
	Adequate treatment for removal of oil, Chromium & Fluoride	Process adapted by Coromandel Fertilizers Ltd for Phosphoric acid plant is di-hydrate process which produces 26% P2O5 Phosphoric acid, and all containing fluoride is collected and totally re circulated to the process.	Complied with
2.	No effluent arising from the process plants & associated facilities will be discharged to the storm water drain	Ennore unit works on the principle of keeping ZERO effluent discharge as all the process water is being recycled and taken back into the system and hence this point is well taken care of and the process water under any circumstances will not go into the storm water drain. Only permitted reject from the MED unit i.e. Desalination Unit is discharged into marine and the same is monitored as per TNPCB guidelines.	Complied with
	B) AIR POLLUTION MANA		
3.	conversion to DCDA	SAP – 1 has been converted to DCDA process during 1997 SAP – II has been operating with DCDA from the inception (1995)	Complied with Complied with

		1		T
	4.	Improve the conversion and	SAP-1 Plant - Catalysts for the	
		absorption efficiency to	converter was replaced with high	SO2 emission is
		achieve an emission standard	performance & effective Haldor	within the limit
		of	Topsoe & MECS catalysts.	
		SO2 - 2.5 Kg/MT of Acid		
		for plants with capacity of		
		less than 300 T		
			SAP- II Plant - Catalysts for the	
			converter was replaced with high	SO2 emission is
		SO2 – 2.0 Kg / MT of Acid –	performance & effective Haldor	within the limit
		for plant with capacity of	Topsoe & MECS catalysts.	
		more than 300T	ropsoc & wiles catalysts.	
		more than 500 i		
	5.	The stack height shall be	Stack height for sulphuric acid	Complied with
1	<i>J</i> .	provided as per guidelines	1	Complied with
		provided as per guidennes	plant are provided as per the	
		The production with the production	guidelines de la	
-	6.	Desviding dust control system	We have installed adverse.	Committee
	0.	Providing dust control system	We have installed adequate control	Complied with
-		for Rock phosphate grinding	system consisting of cyclone	
-		unit in PA plant	separators followed by improved	
			bag filter systems. The dust	
	** **		emission is well below the standard.	
-				
Company and second	7.	Provision of adequate control	We have provided Multi-stage	
		for Fluoride emission	scrubbing system (5 stages) to	
			control particulate as well as	Complied with
			gaseous fluoride emission. The	
-			stack emission is monitored	
-			periodically, and the results are	
-			within the limits.	
L				
-	8.	Continuous monitoring	We have installed continuous	Complied with
-		system for SO2 & HF	monitoring system for SO2, NH3,	
		emission to be installed.	PM & HF stack emission for both	
-			SAP-1, SAP - II, APS & PAP	
			plants. The on-line data are	
			connected to TNPCB care Air	
*****	- "		Centre.	
-	9.	Ambient quality monitoring	Ambient Air Quality is monitored	Complied with
and the same of th		with regard to SO2& NH3	as per National Ambient Air	Compiled with
-		parameters	Quality Standard, Nov 2009 and 2	
4			locations Online continuous	
			· · · · · · · · · · · · · · · · · · ·	
Canada and Mariana				
ŧ			system (CAAQMS) monitored the	
Agent of the Park	1			
NAME OF TAXABLE PARTY O			SO2, NH3 parameters are within the limit.	

	C) SOLID WASTE MANAG	EMENT	
10.	Gypsum storage with lining, dykes and approach roads	Gypsum is stored in HDPE layer and with retainer HDPE line wall protection and leachate collection pond also provided (leachate water is recycled back to PA Plant process) Gypsum is dispatched to cement Industries & other industrial customers. 1) Adequate approach roads are provided. 2) From Generation point to Storage point- Adequate conveyor system has been installed.	Complied with
	Action plan for proper handling, storage & disposal of Spent catalyst	1) We are storing the spent Vanadium pent oxide catalyst in Containers with HDPE liners as per Hazardous waste management rules. 2) We are a Member of the Industrial Waste Management Association. The IWMA identified M/s Ramky group as the service provider for safe disposal of hazardous waste functioning at Gummidipondi (TNWML). 3) Spent catalyst (Vanadium pent oxide) completely disposed to TNWML.	Complied with

					NH3	μg/ Nm³	9	9	9	9	9	9
					NOX	μg/ Nm³	13	14	16	Ξ	12	12
		Ennore, Chennai - 57 AMBIENT AIR QUALITY MONITORED AT FOUR LOCATIONS DURING APR -25 to SEP - 25		East Gate	SO_2	μg/ Nm³	4	23	30	30	31	30
	STATE OF THE PARTY		P - 25	'n	PM_{10}	μg/ Nm³	62	65	99	65	65	63
			5 to SE		PM _{2.5}	ug/ Nm³	22	22	24	24	24	23
-			.PR -2!		NH3	μg/ Nm³	7	10	× :	6	8	8
			ING A	minal	NOX	μg/ Nm³	10	11	12	10 1	11	11
	pa		DUR	Ammonia Terminal	SO_2	нg/ Nm³	28	3.2	2.8	3	3	3.1
	Cimit	7	LIONS	Amme	PIM_{10}	μg/ Nm³	31	31	31	31	31	31
esterna es completado que disconer p	onal	ai - 5.	LOCA		PM _{2.5}	ug/ Nm³	4	4	4	4	4	4
	ernati	henn	OUR		NH3	ug/ Nm³	^	9	9	9	7	8
		ore, C	ATF	e)	NOX	µg/ Nm³	15	18	18	17	16	16
	nande	Enn		PAP Side	SO ₂	µg/ Nm³	21	14	13	10	11	1
	Corom		INOI		PM_{10}	ug/ Nm³	53	50	52	55	55	54
			ITY IV		PM _{2.5}	ug/ Nm³	12	14	12	12	13	13
			QUAI		NH3	ug/ Nm³	7	9	9	9	9	9
			I AIR	ding	NOX	ug/ Nm³	13	13	18	18	16	16
			BIEN	Admin Building	502	µg/ Nm³	14	11	11	10	12	13
And the twenty commences of the second			AMB	Adm	PM_{10}	ug/ Nm³	44	43	51	53	53	51
					PM _{2.5}	ug/ Nm³	6	6	10		10	10
And the state of t				Location	Parameters	Month	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25

				F mg/Nm³	S/D	S/D	S/D	S/D	S/D	S/D	
			APS Stack	$ m NH_3$ $ m mg/Nm^3$	S/D	S/D	S/D	S/D	S/D	S/D	
		025		SPM mg/Nm³	S/D	S/D	S/D	g/S	S/D	S/D	
iited		025 to SEP - 2	Stack	SPM mg/Nm³	13	12	17	12	12	10	
national Lin	iennai - 57	r the APR - 2	PAP Stack	F mg/Nm³	4.1	8.7	4.9	1.8	1.9	0.7	
mandel Inter	Ennore, Ch	ysis result for	SAP 2	Acid mist mg/Nm³	19	20	18	18	17	20	
Coro		s stack anal	AS.	SO ₂ Kg/Ton of acid	0.34	0.3	0.39	0.37	0.38	0.45	
	Coromandel International Limited Ennore, Chennai - 57 Plants stack analysis result for the APR - 2025 to SEP - 2025		Plant	SAP 1	Acid mist mg/Nm³	20	10	20	20	21	18
			SA	SO ₂ Kg/Ton of acid	0.51	0.46	0.49	0.55	9.0	0.38	
			Plant	Parameters	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	

25 to Sep -25	COD Phosphates Nitrogen Fluoride	<1	50 1.6 <1 1.2	52 1.7 <1 1.2	54 1.7 <1 1.2	55 1.7 <1 1.3	52 1.6 <1 1.2		COD Phosphates Nitrogen Fluoride		The state of the s	65 1.9 3 1.3	1.9	1.9 3	1.9 2 3 3 3
BOD <5	\$ \$	<5		<5	<5	<5	<5		BOD	<55		\ \ \ \	Z Z		\$\frac{1}{2} \frac{1}{2} \frac{1}{2}
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Ū	5	285	290	285	280	285	280		Ū		310	310	310	310 310 300 295	310 300 295 300
TDS		3400	3400	3500	3450	3500	3400		TDS		3650	3650 3700	3650 3700 3750	3650 3700 3750 3700	3650 3700 3700 3750
	ISS	32	30	32	32	33	32	Hd	TSS		46	46	46	46 45 46 48	46 45 46 48 46
	pH	7	7	7	7.0	7.0	7.0	r WTP n mg/lexcep	Hď		7.1	7.1	7.1 7.1 6.9	7.1 7.1 6.9	7.1 7.1 6.9 6.9
	Parameters	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25	Location: Near WTP All parameters are in mg/1 except pH	Parameters		Apr-25	Apr-25 May-25	Apr-25 May-25 Jun-25	Apr-25 May-25 Jun-25 Jul-25	Apr-25 May-25 Jun-25 Jul-25 Aug-25

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		**************************************			Total Nitrogen	က	m	က	က	ĸ	'n
					Nitrate Nitrogen	BDL	BDL	BDL	BDL	BDL	BDL
					Fluoride	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1
	The state of the s		p - 2025		Ammonical Nitrogen	3	က	ĸ	m	m	8
A STATE OF THE PROPERTY OF THE	mited		WED outlet Sea Water analysis report for April - 2025 to Sep - 2025		T. Phosphates	<1	_	7	<1	<1	1
	onal Li	ai -57	for Ap		COD	48	52	50	56	09	58
	ernation	Chenn	report		ВОБ	\$	<5	<5>	<5	\$ 5	<5
	romandel International Limited	Ennore, Chennai -57	analysis		Oil & Grease	<10	<10	<10	<10	<10	<10
ARREST OF THE AREA CONTRACTOR AND AREA CONTRAC	Coroma		Sea Water		Sulphates	2860	2760	2750	2820	2800	2770
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The second secon			MED		TDS	55800	54500	44800	43200	53500	42100
				cept pF	TSS	2	2	2	2	2	2
				n mg/l exc	Temp C	31	30	30	30	0	30
***************************************		in the state of th		rs are i	Н	8.5	8.6	8.4	8.3	8.4	8.4
				All parameters are in mg/l except pH	Parameters	Apr-25	May-25	Jun-25	Jul-25	Aug-25	Sep-25

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Coromandel International Limited	Ennore, Chennai -57	Water Analysis Report for APR - 2025 to SEP -2025	All parameters are in mg/1 except pH							
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omai	(II)	ter A	aram							
Core			All p	μd	7.3	7.3	7.1	7.2	7.2	7.3
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