

EHS/MoEF/2024-131

30/11/2024

To
The Director,
Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road,
Nungambakkam, Chennai-600034

Dear Sir,

Sub: Half Yearly EC (Environment Clearance) Compliance Report- regd.

Ref: F. No. J-11011/388/2006-IA II (I) dated 18.05.2007

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC
for enhanced production capacity of Phosphoric acid plant from 500 MTPD to 700 MTPD

Period of submission : **April- 2024 to September-2024**
Unit : Coromandel International Limited, Visakhapatnam

Thanking You,

For Coromandel International Limited



M. Gnanasundaram
VP – Head Manufacturing


NAG/DNR
Encl : a/a

CC: The Member Secretary, Head Office-APPCB, Vijayawada
Joint Chief Environmental Engineer, APPCB, Zonal Office, Visakhapatnam
Environmental Engineer, APPCB, Regional Office, Visakhapatnam

EHS2-Vizag-Coromandel

From: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel
Sent: 01 December 2024 18:20
To: eccompliance-ap@gov.in; rovspappcb@gmail.com; zovspappcb
Cc: EHS2-Vizag-Coromandel; Nageswara Rao G-AsstMgr-EHS-Vizag-Coromandel; Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: Half Yearly EC (Environment Clearance) Compliance Report- regd.
Attachments: MoEF Complex PAP (Apr-24 to Sep -24).pdf

Dear Sir,

Ref: F. No. J-11011/388/2006-IA II (I) dated 18.05.2007

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for enhanced production capacity of Phosphoric acid plant from 500 MTPD to 700 MTPD

Period of submission : April – 2024 to September -2024
Unit : Coromandel International Limited, Visakhapatnam

Regards,
Nagarjuna P
Manager-Environment
9100443439

SAVE ENVIRONMENT SAVE LIFE


Coromandel
FUTURE POSITIVE
Coromandel International Limited
Sriharipuram, Malkapuram PO
Visakhapatnam-530 011
Andhrapradesh, India.
F: +91 891-2578400
W: www.coromandel.biz
A MURUGAPPA GROUP COMPANY

Coromandel International Limited, Visakhapatnam

MoEF-EC- COMPLIANCE STATUS OF Environmental Clearance (EC) issued by MOEF for enhanced production capacity of Phosphoric acid plant from 500 MTPD to 700 MTPD

Reference : F No. J-11011/388/2006-IA II (I) dated 18.05.2007

(For the period from April -2024 to September -2024)

A. SPECIFIC CONDITIONS:

S.No.	Specific conditions	Compliance status
i.	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Monitoring of HF shall be carried out along with other parameters. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	<p>Complied</p> <p>All the applicable gaseous parameters including that of Fluorides are monitored vide online OCEMS and are connected to the APPCB & CPCB and are maintained within the limits. Necessary interlocking are in place to limit the emission within the limits.</p> <p>Regular 3rd party monitoring reports are submitted to the concerned authorities.</p> <p>A copy of the acknowledgment herewith is enclosed as Annexure – 01.</p>
ii.	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration is anticipated in consultation with the APPCB and data submitted to the Ministry's Regional Office at Bangalore six monthly and APPCB quarterly along with statistical analysis.	<p>Complied</p> <p>Installed three online monitoring AAQM stations and connected them to the APPCB server. Ambient air quality is also being monitored through MoEF approved laboratory and AAQMS data is submitted to MoEFCC & APPCB regularly. Quarterly reports are being submitted to APPCB.(Acknowledgment copy is attached)</p> <p>A copy of the submitted acknowledgment is enclosed Annexure - 02</p>
iii.	Total water requirement will be met from Municipal Water supply. No	Complied

Coromandel International Limited, Visakhapatnam

S.No.	Specific conditions	Compliance status
	effluent will be generated from water-soluble fertilizer plant since entire quantity of water will be recycled in the process. Liquid effluent from cooling tower blow down will be recycled and reused in phosphoric acid / granulation plants and in case of no consumption, it will be sent to ETP. Treated effluent will be disposed off into the sea at a distance of 5.0 K through a channel.	<p>Pesently our water requirement are met through the 6 MLD de-salination plant and 16600 KLD GVMC supply.</p> <ul style="list-style-type: none"> - Effluent generated from Water Soluble Fertilizer plant and cooling Tower blow down water are recycled in the process. - Once through cooling is discharged into sea at a distance of more than 6 KM through a channel.
iv.	Prior clearance under the Coastal Regulation Zone (CRZ) shall be obtained from the State / Central Govt. for the disposal of treated effluent into the Sea.	<p>Complied</p> <p>Coromandel does not discharge any treated effluent directly into the sea.</p> <p>Coromandel has been permitted to discharge its treated effluents from ETP and return Once through cooling water in a common channel provided by the Visak Port authorities since the plant was established in 1967 (prior to CRZ rules 1991)</p> <p>Coromandel discharge point is approx. 03 km away from the Meghadrigedda overflow channel. All other industries (HPCL, APCL, IOCL, and BPCL) are also discharging into a common channel.</p>
v.	Regular monitoring of groundwater by installing Piezometric wells around the guard pond and sludge disposal site shall be periodically monitored and reports submitted to Ministry's Regional Office at Bangalore, CPCB and APPCB.	<p>Complied</p> <p>Groundwater monitoring through 5 Piezo wells and 8 Bore wells located in and around the guard pond and reports furnishing to APPCB regularly.</p> <p>A copy of the submitted acknowledgment is enclosed in Annexure – 03</p>

Coromandel International Limited, Visakhapatnam

S.No.	Specific conditions	Compliance status
vi.	Gypsum produced as a by-product from phosphoric acid plant shall be utilized in cement industries as a retarder as well as soil conditioner for agricultural use. Waste oil shall be sold to the authorized recyclers / preprocessors.	<p>Complied</p> <p>Gypsum is being disposed off to various nearby industries, predominantly Cement industries and also for agricultural purposes.</p> <p>Waste oil is being disposed to CPCB-approved recyclers.</p>
vii.	The company shall adopt rainwater-harvesting measures to reduce requirement of the fresh water.	Rain water harvesting is not feasible as the plant is very close to the sea and water table is very high in the area. However we have provided collection pit for the collection of the storm water and recycling it in the process to conserve the fresh water.
viii.	Green belt shall be developed in 33 % area and properly maintained to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.	<p>Complied</p> <p>Out of the 428 acres, the revised land area is 313 (after demarking from VPT) and the green belt is developed in 120 acres area which is more than 33%. Hence Complied</p> <p>Photographs of the plantations are attached in Annexure -04</p>
ix.	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.	<p>Complied.</p> <p>A copy of the submitted half-yearly CSR report is enclosed in Annexure – 05</p>

Coromandel International Limited, Visakhapatnam

B. GENERAL CONDITIONS :-

S.No.	General conditions	Compliance status
i.	The project authorities must strictly adhere to the stipulations made by the A .P. Pollution Control Board (APPCB) and the State Government	Agreed.
ii.	No further expansion/modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests	Prior approval will be taken from statutory body/ MOEF as and when any expansion is envisaged.
iii.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003.	Maintaining FORM-3 and FORM-13 for storage and transfer of hazardous waste.
iv.	The project proponent shall also comply with all the safeguards recommended in the EIA /EMP Report.	Agreed.
v.	The project authorities will set up a separate environmental management cell for effective implementation of all the above stipulations under control of Senior Executive.	Complied A separate environment management cell at the corporate level headed by AVP, HSE & A separate environment cell plant level headed by Plant EHS level are in place. We have engaged NABL & MoEFCC accredited Lab to carry out the Environmental monitoring regularly
vi.	Adequate funds towards capital cost and recurring expenditure/annum shall be earmarked and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and a time bound	Complied Funds are provided through internal fund allocation systems.

Coromandel International Limited, Visakhapatnam

S.No.	General conditions	Compliance status
	implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purposes.	
vii.	The Regional Office of this Ministry at Bangalore / Central Pollution Control Board / APPCB will monitor the stipulated conditions. A six-monthly compliance status report and the monitored data along with statistical interpretation shall be submitted to monitoring agencies regularly.	<p>Complied</p> <p>Compliance reports are sent regularly and the same are uploaded to the company website. The company website link is https://www.coromandel.biz/ A copy of the submitted Half yearly is enclosed in Annexure – 06</p>
viii.	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 APPCB / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should 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 Regional office at Bangalore.	<p>Complied</p> <p>Advertised in prominent news papers dated – 27.05.2008 in local language and also English, and copies were forwarded to Regional Office, MoEF.</p>
ix.	The Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of commencing the land development work, if any.	<p>Complied</p> <p>The Project was supported with Internal Fund Allocations. All the projects were completed by 2009-10.</p>
x.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not	Noted

Coromandel International Limited, Visakhapatnam

S.No.	General conditions	Compliance status
	satisfactory.	
xi.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Agreed.
xii.	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 Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	<p>Complied</p> <p>We have obtained Consent for Operation from APPCB CFO Valid up to 31.08.2027.</p> <p>A copy of the CFO herewith enclosed in Annexure – 07</p> <p>We have obtained a public liability Insurance Policy valid till 31.03.2025.</p> <p>A copy of the PLI herewith enclosed in Annexure – 08</p>

EHS/APPCB/2024 - 103

04-10-2024

To,

The Environmental Engineer,
Regional Office, 3rd Floor
A.P. Pollution Control Board,
Visakhapatnam - 530018

Dear Sir,

Sub: Submission of Environmental Monitoring Reports for the month September' 2024 – Reg.

Ref: I) CFO Order No: APPCB/VSP/65/CFO/HO/1967 - 04/08/2023

With reference to above we are here with attaching the analysis reports of the third party for the month of September' 2024. The following are the analysis reports:

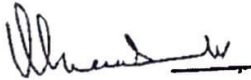
1. National Ambient Air Quality
2. Noise Monitoring Reports
3. STP Outlet Water Quality
4. ETP Outlet Water Quality
5. Piezo Well Water Quality
6. Stack Monitoring Reports
7. Ground Water Reports

This is for your kind information & Records

Thanking you,

Yours faithfully,

for Coromandel International Limited



Gnanasundaram M
Vice President & Head Mfg.


NAG



EHS/APPCB/2024 - 103

04- 10 -2024

To,

The Environmental Engineer,
Regional Office, 3rd Floor
A.P. Pollution Control Board,
Visakhapatnam -530018

Dear Sir,

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Ref: I) CFO Order No: APPCB/VSP/65/CFO/HO/1967 - 04/08/2023

With reference to above we are here with attaching the analysis reports of the third party for the month of **September' 2024**. The following are the analysis reports:

1. National Ambient Air Quality
2. Noise Monitoring Reports
3. STP Outlet Water Quality
4. ETP Outlet Water Quality
5. Piezo Well Water Quality
6. Stack Monitoring Reports
7. Ground Water Reports

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Yours faithfully,

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Vice President & Head Mfg.


NAG

Labs and Consultants

Registered Office :

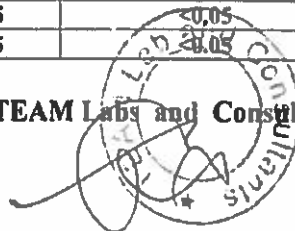
B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.
Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

Recognised as Environmental Laboratory under Environmental (Protection) Act 1986
NABL Accredited Laboratory (Certificate No. TC-12956)

TEST REPORT

Test Report No.	TLC/V/Env/CIL/17/0924		dt.01.10.2024	
Description of Test	Ambient Air quality Monitoring inside the CIL			
Name of the client	Coromandel International Limited, Visakhapatnam			
Location of sampling	Stations as per details given			
Period of Monitoring	For the Month ofSEPTEMBER-2024			
Summary of Ambient Air quality Monitoring Data for the Month of SEPTEMBER-2024				
Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	22	26	22
	Maximum	40	42	42
	98%tile	40	42	42
	Average	32	35	37
PM 10 $\mu\text{g}/\text{M}^3$	Minimum	50	52	68
	Maximum	78	80	80
	98%tile	78	80	80
	Average	65	68	74
SO ₂ $\mu\text{g}/\text{M}^3$	Minimum	12.5	13.2	12.9
	Maximum	20.2	23.5	15.5
	Average	16.4	18.9	14.4
	98%tile	20.2	23.5	15.5
NO _x $\mu\text{g}/\text{M}^3$	Minimum	12.4	13.5	11.6
	Maximum	21.3	22.4	19.5
	98%tile	21.3	22.4	19.5
	Average	17.4	18.8	18.1
NH ₃ mg/M^3	Minimum	0.01	0.01	0.01
	Maximum	0.04	0.05	0.03
	98%tile	0.04	0.05	0.03
	Average	0.025	0.03	0.02
O ₃ $\mu\text{g}/\text{M}^3$	Minimum	10	10	10
	Maximum	22	22	20
	98%tile	22	22	20
	Average	16	16	15
CO mg/M^3	Minimum	0.1	0.1	0.1
	Maximum	0.2	0.2	0.3
	98%tile	0.2	0.2	0.3
	Average	0.15	0.15	0.2
Pb $\mu\text{g}/\text{M}^3$	<0.05	<0.05	<0.05	<0.05
C6H6 ng/M^3	<0.05	<0.05	<0.05	<0.05
B(a)P ng/M^3	<0.05	<0.05	<0.05	<0.05
As ng/M^3	<0.05	<0.05	<0.05	<0.05
Ni ng/M^3	<0.05	<0.05	<0.05	<0.05

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

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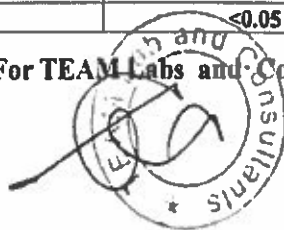
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TEST REPORT

Test Report No.		TLC/V/Env/CIL/18/0924	dt.01.10.2024
Description of Test		Ambient Air quality Monitoring inside the CIL unit	
Name of the client		Coromandel International Limited, Visakhapatnam	
Location of sampling		Stations as per details given	
Period of Monitoring		For the Month ofSEPTEMBER-2024	
Summary of Ambient Air quality Monitoring Data for the Month of SEPTEMBER-2024			
Parameters		AAQ-4 Station at Warf	AAQ-5 Station near VST
PM2.5	Minimum	24	25
	Maximum	39	39
	98%tile	39	39
	Average	32	32
PM 10 µg/M ³	Minimum	50	50
	Maximum	75	76
	98%tile	75	76
	Average	63	64
SO ₂ µg/M ³	Minimum	10.9	10.8
	Maximum	16.0	16.7
	Average	13.4	13.8
	98%tile	16.0	16.7
NO ₂ µg/M ³	Minimum	12.5	12.6
	Maximum	18.8	18.8
	98%tile	18.8	18.8
	Average	15.6	15.8
NH ₃ mg/M ³	Minimum	0.01	0.01
	Maximum	0.04	0.05
	98%tile	0.04	0.05
	Average	0.02	0.03
O ₃ µg/M ³	Minimum	10	10
	Maximum	20	20
	98%tile	20	20
	Average	15	15
CO mg/M ³	Minimum	0.1	0.1
	Maximum	0.2	0.3
	98%tile	0.2	0.3
	Average	0.15	0.2
Pb µg/M ³	<0.05	<0.05	<0.05
C6H6 ng/M ³	<0.05	<0.05	<0.05
B(a)P ng/M ³	<0.05	<0.05	<0.05
As ng M ³	<0.05	<0.05	<0.05
Ni ng/M ³	<0.05	<0.05	<0.05

For TEAM Labs and Consultants



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TEST REPORT

Test Report No	TLC/V/Env/CIL/30E/0924	DATE 01-10-2024
Description of Test	Noise Level Monitoring	
Name of the client	Coromandel International Limited, Visakhapatnam	
Location of sampling	As per details provided	
Date of collection	SEPTEMBER-2024	
	LOCATION / AREA	NOISE LEVEL LIMITI (70dB)
VST Terminal		
Night	Storage Trucks Area	54
	Control Room	50
	VST Gate	49
	Transformer Area	60
	LOCATION / AREA	NOISE LEVEL LIMITI (75dB)
Day	Storage Trucks Area	65
	Control Room	66
	VST Gate	64
	Transformer Area	69

For Team Labs Consultants



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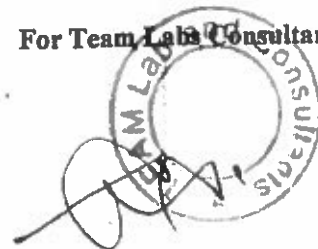
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TEST REPORT

Test Report No	TLC/V/Env/CIL/30D/0924	DATE 01-10-2024
Description of Test	Noise Level Monitoring	
Name of the client	Coromandel International Limited, Visakhapatnam	
Location of sampling	As per details provided	
Date of collection	SEPTEMBER-2024	
	LOCATION / AREA	NOISE LEVEL LIMITI (70dB)
	WHARF	
Night	Control Room	52
	Trucks loading Area	50
	Boiler Area	58
	Bearth Area	62
	LOCATION / AREA	NOISE LEVEL LIMITI (75dB)
Day	Control Room	65
	Trucks loading Area	70
	Boiler Area	63
	Bearth Area	65

For Team Labs Consultants



Labs and Consultants**Registered Office :**

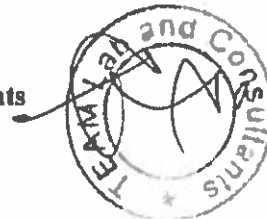
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TEST REPORT

Test Report No	TLC/V/Env/CIL/30C/0924	DATE 01-10-2024
Description of Test	Noise Level Monitoring	
Name of the client	Coromandel International Limited, Visakhapatnam	
Location of sampling	Asper details provided	
Date of collection	SEPTEMBER-2024	
	LOCATION / AREA	NOISE LEVEL LIMITI (70 dB)
Night	1St Gate	52
	2nd Gate	54
	3rd Gate (Plant)	55
	4th Gate	52
	5th Gate	48
	6th Gate	50
	7th Gate	55
	8th Gate	56
	9th Gate	54
	Contractor gate	50
	LOCATION / AREA	NOISE LEVEL LIMITI (75 dB)
Day	1St Gate	68
	2nd Gate	64
	3rd Gate (Plant)	67
	4th Gate	62
	5th Gate	63
	6th Gate	68
	7th Gate	60
	8th Gate	65
	9th Gate	66
	Contractor gate	62

For Team Labs Consultants



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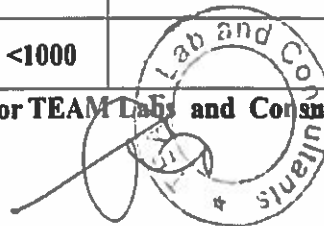
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TEST REPORT

Test Report No.		TLC/V/Env/CFL/22/0824			dt.01.10.2024
Description of Test		STP Outlet water Analysis			
Name of the client		Coromandel International Limited, Visakhapatnam			
Location of sampling		STP Out Let samples			
Date of Collection		17.09.2024			
Analysis report of STP Outlet water for the Month of SEPTEMBER-2024					
1	PH		7.6	6.5-8.5	IS:3025 Part 11-1983
2	Total Suspended Solids	mg/l	20	100	IS:3025 Part 17-1984
3	Oil & Grease	mg/l	NIL	10	IS:3025 Part 39-1991
4	Ammonical Nitrogen	mg/l	6.0	50	APHA4500C
5	Free Ammonical Nitrogen	mg/l	0.1	4.0	APHA4500C
6	Total Kjeldal Nitrogen	mg/l	18	75	APHA4500B
7	Nitrate Nitrogen	mg/l	0.1	20	APHA4500D
8	Cyanides as CN	mg/l	<0.1	0.1	SM 4500CN E
9	Arsenic as As	mg/l	<0.02	0.2	SM3125
10	Vanadium as V	mg/l	<0.1	0.2	SM3125
11	Hexa valent Chromium as Cr ⁶⁺	mg/l	<0.02	0.1	SM3125
12	Total Chromium	mg/l	<0.01	2.0	SM3125
13	Fluoride as F ⁻	mg/l	0.5	10	SM 4500 F- D
14	Phosphates as P	mg/l	0.1	5	APHA4500D
15	BOD	mg/l	16	30	IS:3025 Part 44-1993
16	COD	mg/l	80	250	IS:3025 Part 58-2006
17	Temperature difference between intake water and outlet	°C	03	5°C	
18	Fecal Coliform (FC)	1000MP N/100ml	400	<1000	Lab and Co

For TEAM Labs and Consultants



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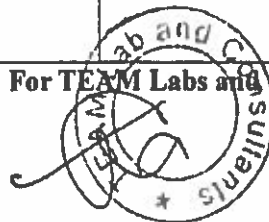
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TEST REPORT

Test Report No.		TLC/V/Env/CFL/24/0824			dt.01.10.2024
Description of Test		ETP Outlet water Analysis			
Name of the client		Coromandel International Limited, Visakhapatnam			
Location of sampling		ETP Out let samples			
Date of Collection		21.08-2024			
Analysis report of ETP Outlet water for the Month of August -2024					
S.No	Parameter	units	ETP Outlet	APPCB LIMIT	Protocol
1	PH		7.7	6.5-8.5	IS:3025 Part 11-1983
2	Total Suspended Solids	mg/l	22	100	IS:3025 Part 17-1984
3	Oil & Grease	mg/l	NIL	10	IS:3025 Part 39-1991
4	Ammonical Nitrogen	mg/l	15	50	APHA4500C
5	Free Ammonical Nitrogen	mg/l	0.2	4.0	APHA4500C
6	Total Kjeldal Nitrogen	mg/l	24	75	APHA4500B
7	Nitrate Nitrogen	mg/l	0.1	20	APHA4500D
8	Cyanides as CN	mg/l	<0.1	0.1	SM 4500CN E
9	Arsenic as As	mg/l	<0.02	0.2	SM3125
10	Vanadium as V	mg/l	<0.1	0.2	SM3125
11	Hexa valent Chromium as Cr 6+	mg/l	<0.02	0.1	SM3125
12	Total Chromium	mg/l	<0.01	2.0	SM3125
13	Fluoride as F-	mg/l	0.8	10	SM 4500 F- D
14	Phosphates as P	mg/l	0.4	5	APHA4500D
15	BOD	mg/l	14	30	IS:3025 Part 44-1993
16	COD	mg/l	70	250	IS:3025 Part 58-2006
17	Temperature difference between intake water and outlet	0C	27.5	NA	

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

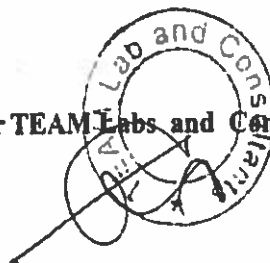
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NABL Accredited Laboratory (Certificate No. TC-12956)

TEST REPORT

Test Report No		TLC/V/Env/CFL/21A/0924	dt.01.10.2024
Description of Test		Peizo wells Water analysis	
Name of the client		Coromandel International Limited, Visakhapatnam	
Location of sampling		Stations as per details given	
Date of Sample collection		As per details given	
No	Date	Location of Peizo-well	F- mg/L
1	23.09.2024	CFL - colony	0.3
2	23.09.2024	Near 4 OP Gate	0.5
3	23.09.2024	Near 7 th gate	0.4
4	23.09.2024	CRC	0.4
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

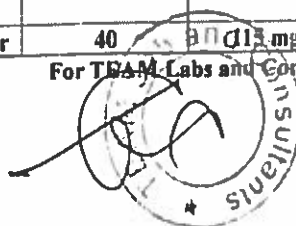
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TEST REPORT

Test Report No		TLC/V/Env/CIL/16/0924		dt.01.10.2024	
Description of Test		Source Emission Monitoring inside the CIL			
Name of the client		Coromandel International Limited, Visakhapatnam			
Location of sampling		stacks attached to respective plants as per details given			
SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OF SEPTEMBER-2024					
S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	294385	Particulate matter	18	45 mg/NM ³
			Ammonia	70	165.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
2	Complex B	285151	Particulate matter	19	45 mg/NM ³
			Ammonia	82	165.0 mg/NM ³
			Fluoride	1.1	4.0 mg/NM ³
3	Complex C	202349	Particulate matter	20	45 mg/NM ³
			Ammonia	52	165.0 mg/NM ³
			Fluoride	1.1	4.0 mg/NM ³
4	Sulphuric acid plant-I	97903	Sulphur dioxide	0.42Kg/MT (260mg/NM ³)	1 Kg/MT
			Sulphur trioxide	0.032Kg/MT (20mg/NM ³)	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	26955	Sulphur dioxide	0.143Kg/MT (90mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-I	132864	Particulate matter	25	50 mg/NM ³
			Fluoride	3.9	20 mg/NM ³
7	Rock grinding unit (Old)	7346	Particulate matter	40	50 mg/NM ³
			Total Fluoride	4.3	20 mg/NM ³
8	Wharf Boiler	10797	Particulate matter	47	115 mg/NM ³
9	Phosphoric acid plant-2	37545	Particulate matter	29	50 mg/NM ³
			Total Fluoride	4.2	20 mg/NM ³
10	Rock grinding unit (New)	7067	Particulate matter	43	50 mg/NM ³
			Total Fluoride	3.1	20 mg/NM ³
11	New SAP-3	48990	Sulphur dioxide	0.05Kg/MT (60mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
12	DG1	11800	Particulate matter	42	115 mg/NM ³
13	DG2	12148	Particulate matter	40	115 mg/NM ³

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

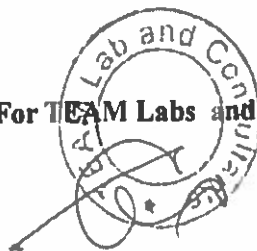
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NABL Accredited Laboratory (Certificate No. TC-12956)

TEST REPORT

Test Report No		TLC/V/Env/CIL/21/0924		dt.01.10.2024	
Description of Test		CIL Surrounding village wells-Ground water analysis			
Name of the client		Coromandel International Limited, Visakhapatnam			
Location of sampling		Stations as per details given			
Date of Sample collection		23.09.2024			
NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonical Nitrogen mgpl
1	Kamaladevi colony-1	7.7	Nil	0.2	Nil
2	Kamaladevi colony-2	7.4	Nil	0.3	Nil
3	Yeduruvanipalem-1	7.6	Nil	0.2	Nil
4	Yeduruvanipalem-2	7.5	Nil	0.3	Nil
5	Mulagada-1	7.4	Nil	0.3	Nil
6	Mulagada No.2	7.5	Nil	0.3	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

For TEAM Labs and Consultants



EHS/APPCB/2024-108

Dated:16/10/2024

To,

Inspector General of Forests

Ministry of Environment, Forest and Climate Change,

Integrated Regional Office, Vijayawada

Green House, Gopalareddy Road, Vijayawada - 520010, Andhra Pradesh

Dear Sir,

Sub: Submission of AAQMS online data for the last Six months, Coromandel International Limited, Visakhapatnam -Reg.

Ref: i) EC COMPLEX PAP (F.No. J-11011/388/2006-IA (II), Dated 18th May 2007

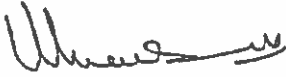
This is bringing to your kind information that in reference to the EC COMPLEX PAP (F.No. J-11011/388/2006-IA (II), dated 18th May 2007, we are pleased to submit the online data from the Ambient Air Quality Monitoring System (AAQMS) for the last Six months of the April to September 2024. The details are enclosed in the Annexure - I.

This is for your information & Records.

Thanking you,

Yours faithfully,

For **COROMANDEL INTERNATIONAL LIMITED**



Gnanasundaram M

Vice President & Head Manufacturing.


NAG/DNR

Enclosure: Annexure - I AAQMS online data for the last six months.



EHS/APPGB/2024-108

Dated:16/10/2024

To,

Inspector General of Forests

Ministry of Environment, Forest and Climate Change,

Integrated Regional Office, Vijayawada

Green House, Gopalareddy Road, Vijayawada - 520010, Andhra Pradesh

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This is for your information & Records.

Thanking you,

Yours faithfully,

For **COROMANDEL INTERNATIONAL LIMITED**



Gnanasundaram M

Vice President & Head Manufacturing.



NAG/DNR

Enclosure: Annexure - I AAQMS online data for the last six months.

CAAQM Monthly Average (April - 2024 to September - 2024)																	Annexure-1			
APCB Limit	CAAQM - Maintenance Garage					CAAQM - Bagging - Plant					CAAQM - Shared Service Center									
	Limit 100	Limit 60	Limit 80	Limit 80	Limit 400	Limit 100	Limit 60	Limit 80	Limit 80	Limit 400	Limit 100	Limit 60	Limit 80	Limit 80	Limit 400	Limit 400				
	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³	ug/m³				
Parameters	PM10	PM2.5	SO2	Nox	NH3	PM10	PM2.5	SO2	Nox	NH3	PM10	PM2.5	SO2	Nox	NH3	NH3				
Apr'24	27.99	12.00	40.99	4.62	25.30	41.01	24.60	36.70	7.24	1.43	28.44	14.32	22.89	10.95	3.37	3.37				
May'24	20.82	12.22	23.93	4.49	26.21	47.44	20.71	40.27	6.94	1.42	25.67	10.50	23.78	9.69	3.85	3.85				
Jun'24	26.87	16.79	18.53	3.09	24.52	38.44	16.81	48.73	7.26	1.4	25.26	13.95	28.78	7.7	3.8	3.8				
Jul'24	35.95	17.48	19.68	2.39	22.2	68.58	22.19	34.76	8.58	3.71	27.72	103.36	28.08	6.96	3.11	3.11				
Aug'24	51.3	19.74	20.3	5.75	46.58	60.98	28.66	35.71	11.14	6.91	35.47	23.33	26.37	8.35	2.22	2.22				
Sep'24	48.26	17.06	22.28	6.53	46.98	46.08	21.90	39.34	11.79	6.87	45.25	31.52	29.87	9.69	2.77	2.77				
Average	35.20	15.88	24.29	4.48	31.97	50.42	22.48	39.25	8.83	3.62	31.30	32.83	26.63	8.89	3.19	3.19				

TEAMORIGINAL

Form-No. TCL/L/GF/RF-138

Labs and Consultants**Registered Office :**

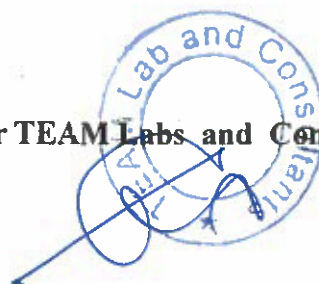
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Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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TEST REPORT

Test Report No		TLC/V/Env/CFL/21A/0924	dt.01.10.2024
Description of Test		Peizo wells Water analysis	
Name of the client		Coromandel International Limited, Visakhapatnam	
Location of sampling		Stations as per details given	
Date of Sample collection		As per details given	
No	Date	Location of Peizo-well	F- mg/L
1	23.09.2024	CFL - colony	0.3
2	23.09.2024	Near 4 OP Gate	0.5
3	23.09.2024	Near 7 th gate	0.4
4	23.09.2024	CRC	0.4
		IS10500 Permissible limit	1.5
Protocol		SM 4500 F- D	

For TEAM Labs and Consultants



Registered Office :

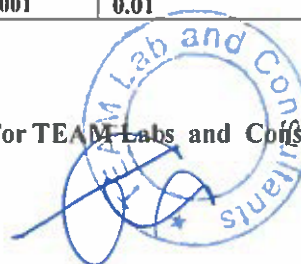
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TEST REPORT

Test Report No		TLC/V/Env/CIL/27/0924				dt.01.10.2024
Description of Test		Ground water analysis around CIL				
Name of the client		Coromandel International Limited, Visakhapatnam				
Location of sampling		As per details given				
Date of Collection		23.09.2024				
	Parameter	Rajakomal devicolony near Anjaneya temple	Rajakomal devicolony Near St Andrews School	Mulagada near Community hall	Mulagada near Ambedkar Statue	Desirable limit As per IS10500
1	pH	7.6	7.7	7.6	7.5	6.5-8.5
2	Colour Hazen units	3	3	2	3	5
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	unobjectionable
4	Taste	Not done	Not done	Not done	Not done	agreeable
5	Total Dissolved solids	580	780	650	770	500
6	Turbidity	2.6	2.2	2.5	2.7	1.0
7	Alkalinity as CaCO ₃	230	280	250	260	200
8	Arsenic as As	<0.001	<0.001	<0.001	<0.001	0.05
9	Boron as B	0.01	0.01	0.02	0.01	1.0
10	Cadmium Cd	<0.001	<0.001	<0.001	<0.001	0.01
11	Calcium Ca	80	120	80	136	75
12	Chlorides Cl-	130	195	150	210	250
13	Total Chromium Cr	<0.01	<0.01	<0.01	<0.01	0.05
14	Cyanide as CN	<0.01	<0.01	<0.01	<0.01	0.05
15	Fluoride	0.3	0.5	0.3	0.4	1.0
16	Total Hardness as CaCO ₃	330	460	320	490	200
17	Iron	0.04	0.06	0.07	0.06	0.3
18	Lead	0.008	0.007	0.007	0.005	0.05
19	Manganese	0.01	0.01	0.02	0.01	0.1
20	Magnesium	31.59	38.9	29.2	36.45	30
21	Mercury	<0.001	<0.001	<0.001	<0.001	0.001
22	Copper	0.001	0.001	0.001	0.001	0.05
23	Nitrate as NO ₃	8.0	29.0	12.5	24.4	45
24	Nitrite	Nil	Nil	Nil	Nil	Nil
25	Phosphates	<0.1	<0.1	<0.1	<0.1	-
26	Sulphates	95	102	122	105	200
27	Zinc	0.05	0.03	0.1	0.05	5.0
28	Aluminum	0.001	0.001	0.001	0.001	0.03
29	Mineral Oil	<0.1	<0.1	<0.1	<0.1	0.5
30	Phenolic compounds	<0.001	<0.001	<0.001	<0.001	0.001
31	Nickel	0.001	0.001	0.001	0.001	0.02
32	Selenium	<0.001	<0.001	<0.001	<0.001	0.01

For TEAM Labs and Consultants



Registered Office :

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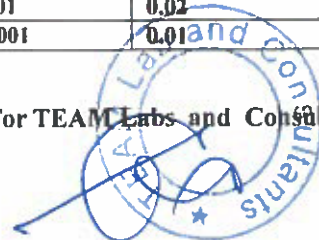
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TEST REPORT

Test Report No		TLC/V/Env/CIL/28/0924			dt.01.10.2024
Description of Test		Ground water analysis around CIL			
Name of the client		Coromandel International Limited, Visakhapatnam			
Location of sampling		As per details given			
Date of Collection		23.09.2024			
	Parameter	Yeduruvanipalem near HZL compound wall	Yeduruvanipalem near Ambedkar statue	Kodipandal adibba near Anganwadice ntre	Desirable limit As per IS10500
1	pH	7.6	7.5	7.5	6.5-8.5
2	Colour Hazen units	4	4	3	5
3	Odour	Agreeable	Agreeable	Agreeable	unobjectionable
4	Taste	Not done	Not done	Not done	agreeable
5	Total Dissolved solids	250	710	640	500
6	Turbidity	2.5	2.6	2.9	1.0
7	Alkalinity as CaCO ₃	90	190	215	200
8	Arsenic as As	<0.001	<0.001	<0.001	0.05
9	Boron as B	0.01	0.01	0.01	1.0
10	Cadmium Cd	0.01	0.01	<0.001	0.01
11	Calcium Ca	32	80	92	75
12	Chlorides Cl-	50	140	145	250
13	Total Chromium Cr	<0.01	<0.01	<0.01	0.05
14	Cyanide as CN	<0.01	<0.01	<0.01	0.05
15	Fluoride	0.15	0.3	0.3	1.0
16	Total Hardness as CaCO ₃	90	280	310	200
17	Iron	0.04	0.04	0.06	0.3
18	Lead	0.01	0.012	0.005	0.05
19	Manganese	0.02	0.02	0.02	0.1
20	Magnesium	2.4	19.4	19.4	30
21	Mercury	<0.001	<0.001	<0.001	0.001
22	Copper	0.001	0.001	0.001	0.05
23	Nitrate as NO ₃	14.0	9.0	17.0	45
24	Nitrite	Nil	Nil	Nil	Nil
25	Phosphates	<0.1	<0.1	<0.1	-
26	Sulphates	35	120	115	200
27	Zinc	0.05	0.09	0.05	5.0
28	Aluminum	0.001	0.001	0.001	0.03
29	Mineral Oil	<0.1	<0.1	<0.1	0.5
30	Phenolic compounds	<0.001	<0.001	<0.001	0.001
31	Nickel	0.001	0.001	0.001	0.02
32	Selenium	<0.001	<0.001	<0.001	0.01

For TEAM Labs and Consultants



Annexure - 4











EHS/APP/CB/2024-113

Dated: 28/10/2024

To

The Member Secretary
Andhra Pradesh Coastal Zone Management Authority
(APCZMA), D.No.33-26-14 D/2, Near Sunrise Hospital,
Chalamavari Street, Kasturibaipet, Vijayawada-520010.

SUB: Submission of the CER/CSR Report for the period of April 2024 to September 2024

Ref: EC number F. No. 11-35/2015-IA-III, Dated 27 June 2017

Dear Sir,

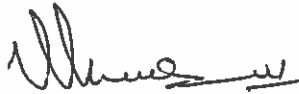
This has reference to above mentioned subject, we are submitting the detailed report of CSR/CER activities carried out by Coromandel International Limited, Vizag during the period from April 2024 to September 2024.

We recognize the importance of sustainable business practices and are committed to making a positive impact on society and the environment.

The above submission is in line with EC compliance & Record please.

Thanking you,

Yours faithfully,
For **COROMANDEL INTERNATIONAL LIMITED**



Gnanasundaram M
Vice President & Head Manufacturing.

NAG
NAG/DNR

Enclosure: CSR/CER Report

<Dial 18002666868> <Wear Masks. Stay Safe>
RN541808665IN IVR:8278541808665
RL MALKAPURAM S.O <530011>
Counter No:1.29/10/2024.11:23
To:THE MEMBER SE.D NO 33-26-14 D/
PIN:520010. Venkateswarapuram S.O
From:COROMANDEL .POST BOX NO 1116
Wt:78gms.REG=17.0
Amt:43.66.Tax:6.66.Amt.Paid:44.00(Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks. Stay Safe>

EHS/APPCB/2024-113

Dated: 28/10/2024

To

The Member Secretary
Andhra Pradesh Coastal Zone Management Authority
(APCZMA), D.No.33-26-14 D/2, Near Sunrise Hospital,
Chalamavari Street, Kasturibaipet, Vijayawada-520010.

SUB: Submission of the CER/CSR Report for the period of April 2024 to September 2024

Ref: EC number F. No. 11-35/2015-IA-III, Dated 27 June 2017

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We recognize the importance of sustainable business practices and are committed to making a positive impact on society and the environment.

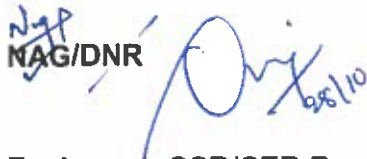
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Thanking you,

Yours faithfully,
For **COROMANDEL INTERNATIONAL LIMITED**



Gnanasundaram M
Vice President & Head Manufacturing.


NAG/DNR

Enclosure: CSR/CER Report

CSR initiatives Report

April 2024 to Sep 2024

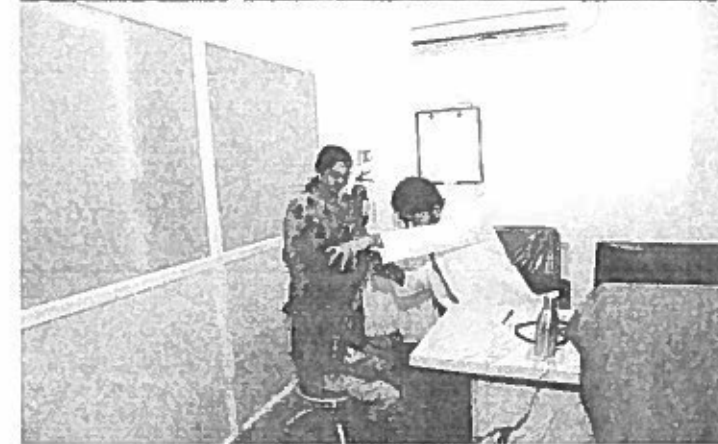
Approved Vs Spent– 24-25

S.No	Domain	Spent Budget
1	Health	25.20
2	Education	26.23
3	Community development	10.68
Total		62.11

April 2024 to Sep 2024

Coromandel Medical center

Sl No	Name of the Month	No of benefitted
1	April	2439
2	May	1906
3	June	2589
4	July	2410
5	Aaugust	2589
6	Sep	2365
	Total	14298



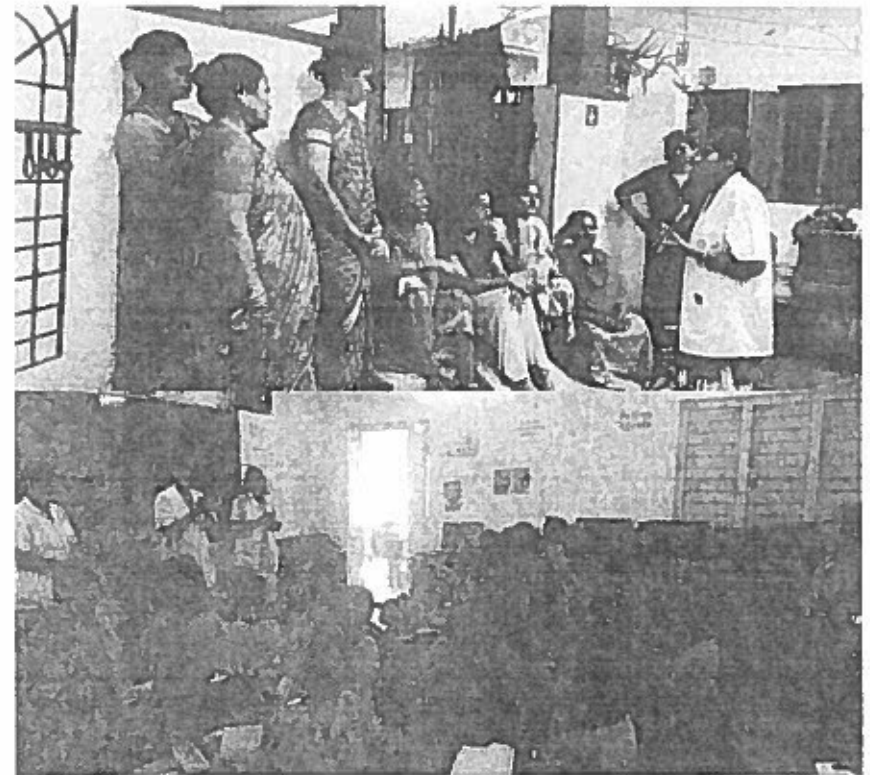
Dental screening service inauguration @CMC

- the Dental Screening Services at our CMC was inaugurated by our President & CHRO, Shri Arun Leslie George. Mr. Gnanasundaram, Vice President & Head - Mfg; Mr. GSV Raja, AVP & Head of HR; the Unit HR Head; and the Senior Leadership Team participated along with local community at CMC.
- During the event, they provided a comprehensive briefing on the CMC services, engaged with community members, and distributed tailoring kits to women to support and enhance their livelihoods. Additionally, we presented furniture to the community halls to benefit local residents. The community members were deeply moved by these contributions, and the CHRO expressed his appreciation for the CSR initiatives led by the Vizag Unit
- **Initiative on 22nd Aug 2024**



Integrated Behavioral change communication

- Comprehensive Health Outreach project aimed at strengthening local health resources and improving health outcomes in our community. The project will leverage local community structures and ambassadors for health outreach, focusing on diseases such as Tuberculosis, vector-borne diseases, Diabetes Mellitus, Hypertension, menstrual health, and adolescent health education.
- No of Beneficiaries April 2024 to Sep 2024: **28460**



Computer Lab Inaugurated By District Collector

- On 26th Sept 2024, Vizag Unit has inaugurated Computer lab as part of CSR Project towards enhancing education and digital literacy of the nearby Community students.
- Shri M. N. Harendhira Prasad, IAS – Collector & District Magistrate – Visakhapatnam in presence of Shri R. V Ramana – Regional Deputy Director - Zone 1 – Visakhapatnam, Shri B. Narasimha Patrudu – 65th Ward Corporator – GVMC & Mr. SrinivasaRao- Principal, ITI-Gajuwaka has inaugurated the Computer Lab at Pedagantyada, Gajuwaka Govt Model ITI. Vice President & Unit Head, Head CSR and DGM HR
- 80 Nos of Blankets to ITI Hostel Students have been distributed by Honorable Collector.

Benefitted **900** ITI Students



Science lab Inaugurated By TDP State President

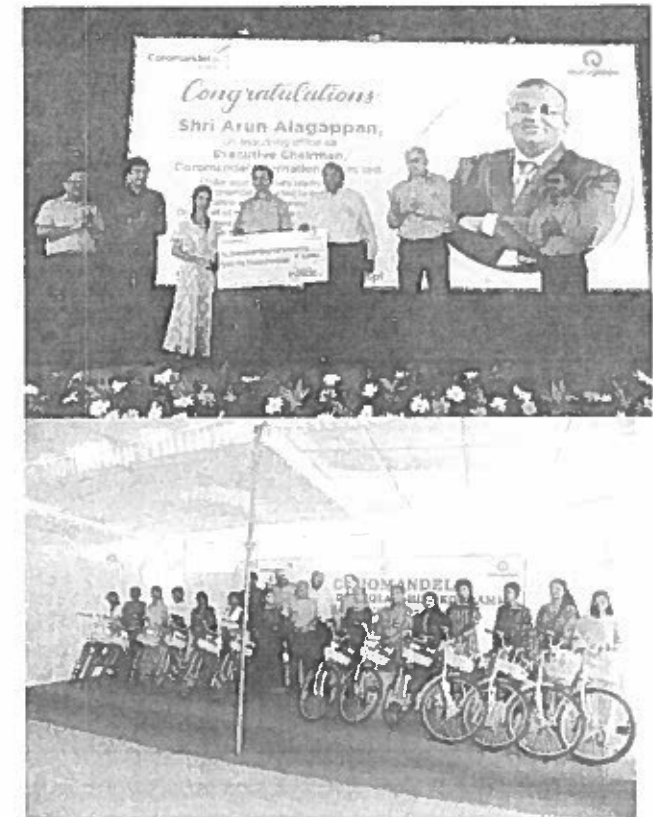
- Shri Palla Srinivasa Rao – TDP State President & MLA Gajuwaka Constituency along with Mrs. L Chandrakala – District Educational Officer, Mr. P Srinivasa Rao – 65th Ward Corporator has inaugurated the Science Lab at ZP High School on 26th Sep 2024
- Mr. Gnanasundaram – VP & unit head along with Mr. JayaGopal Chathur- Head CSR & Mr. Srinivasa Rao – DGM – HR participated
- Shri Palla Srinivasa Rao in his address has thanked the Coromandel management for recognizing the need of the students and appreciated Vizag Unit for its passion towards executing projects in the field of Education and Community development

Benefitted **1600** school children



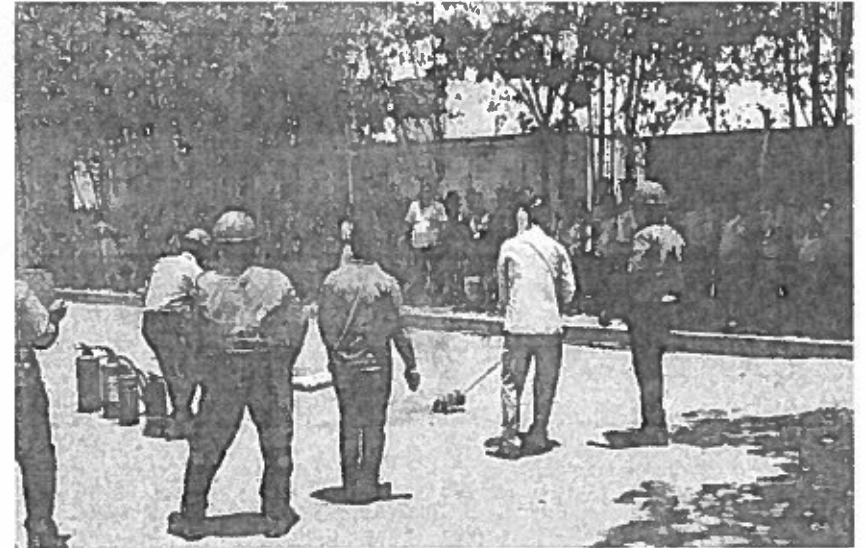
Girlchild Scholarship Distribution

- Organised Coromandel Girlchild Scholarship
- The Program Chief guest Executive Chairman Shri Arun Alagappan and senior leadership
- Total 79 scholarship we provided 22 Bicycles
- Children and parents felt very happy



National Fire Safety Week

- As part of National Fire Safety Week Coromandel conducted Awareness sessions and Fire equipment's demo session at ZP High school Mindi.
- Total 125 children & teachers got benefited.
- Prize distribution also done by the Coromandel officials



Infra Support to the Govt. Schools

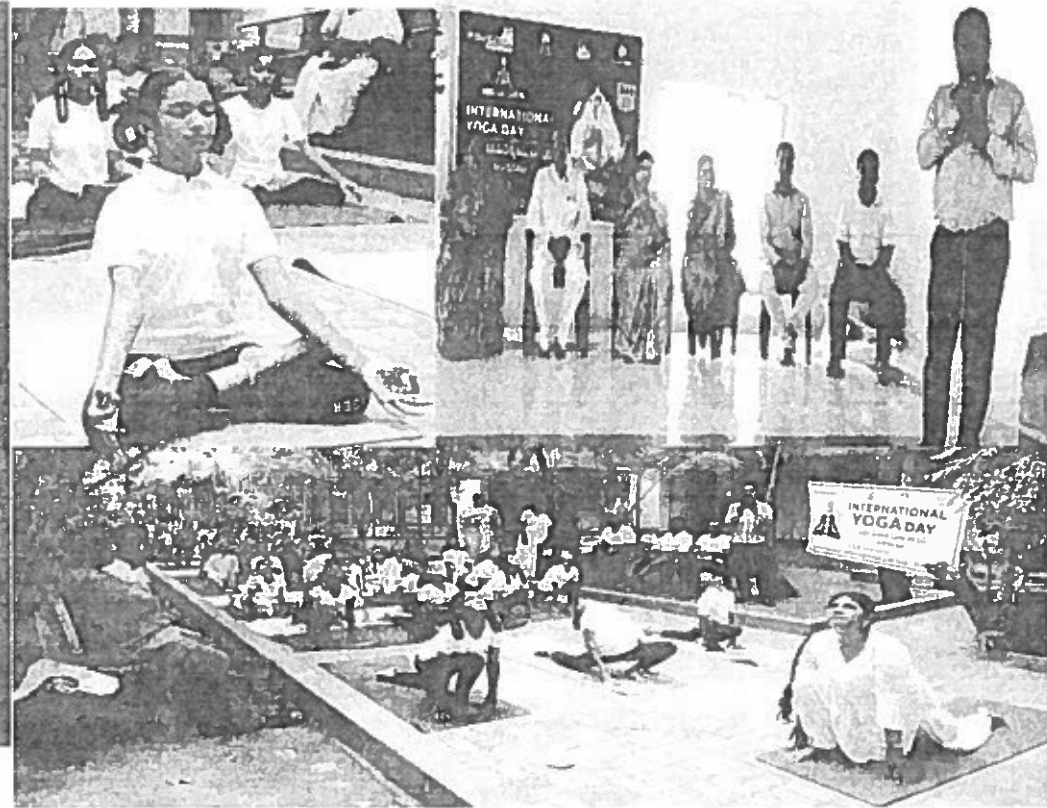
- We handed over tables, almirahs and chairs to 5-GVMC Primary School, 4 Govt High schools and 5-Anganwadi Centre's to enhance infrastructure facilities.
- Teachers & Community Members participated and expressed their gratitude to Coromandel.

1. Chairs
2. Tables
3. Almirah



International Yoga Day Celebrations 21st June 2024

- Coromandel organized International Yoga Day on June 21, 2024, at ZP High School, Mindi.
- where 150 children participated. Another Yoga Day celebration occurred at Pilakavanipalem Community, with 78 women participated
- The event aimed to increase awareness of the advantages of engaging in yoga and to foster its comprehensive approach to promoting health and well-being.
- The event was implemented by Pathriji Pyramid Spiritual Trust, Visakhapatnam.



Teachers' day celebrations

- We organized Teacher's Day celebrations on September 5, 2024, at CRC.
- A total of 110 teachers participated in the event, which was attended by Chief Guests Mandal Revenue Officer (MRO) Mrs. Tarakeswari Garu, Head HR R. Srinivasarao Garu and the Coromandel Ladies Association (CLA).
- Mr. Balaji garu explained and aware school First Aid Kit, school safety awareness. Felicitated 12 best teachers
- The program was successfully completed. Our COO Mr. Amir Alvi and Unit Head Mr. Gnanasundaram also participated in the event, offering their encouragement and best wishes to all the teachers.

MEO, teachers and the MRO were very pleased to attend the event and expressed their appreciation to Coromandel Management.



Honourable Governor of AP has given an appreciation award to Coromandel

- The District Administration Organised Divya kala Mela at AU marine Ground Visakhapatnam on 19th Sep 2024.
- Honourable Governor of AP has given an appreciation award to Coromandel international Limited in recognition for providing wheel chairs to physically challenged persons in the presence of Honourable Union minister of social justice and empowerment Dr.Veerndher Kumar guest of honor,I, Mr Bharath Member of parliament Visakhapatnam.Mr.Baburao Rajyasabha and District collector & Magistrate Shri Harendhira Prasad
- The award has been received by VP & Head Manufacturing M Gnanasundaram, Head CSR Jayagopal and Head HR Srinivasarao



Women Livelihood stall 21st Sep 2024

- MD sir Visited & Observed the Community women stall like jute bags/jewellery making/Margam design and Beauty parlour, and MD sir appreciated women livelihood project.
- Total selling 3800/-Jute bags and Jewellery materials



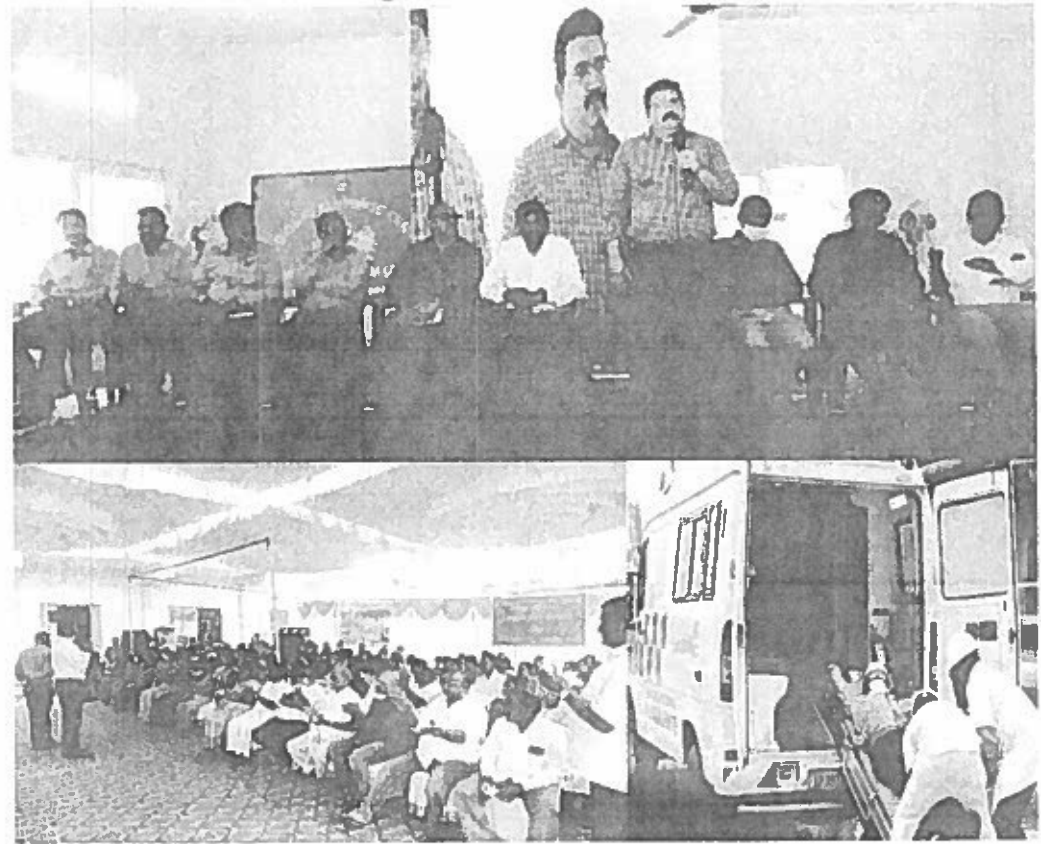
Women Livelihood Training Certificate Ceremony

- As part of Community development Coromandel initiated Women livelihood trainings.
- Like Maggam work, Jute bag work, Handmade jewellery, Beautician course trainings
- And 4 batches we trained total 120 women.
- Distributed Certificates and training kits to the all women
- 1st April 2024



Offsite Mock drill @ Pilakavanipalem

- We Organised Offsite Mock drill on 28th June 2024 at Pilakavanipalem village.
- Participated District Authorities and the factories department officials commended our efforts towards a successful demonstration in our systematic emergency preparedness and capabilities.
- Total participated village peoples 250



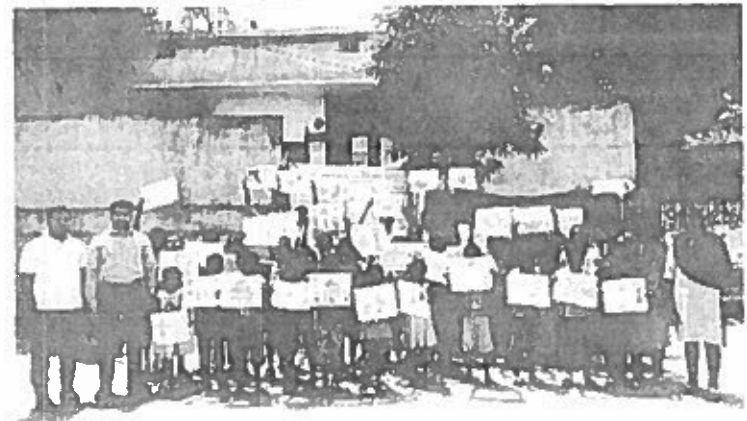
Wheelchairs Hand overing to District Administration

- The handing over ceremony took place at our Coromandel Recreation Centre in Visakhapatnam Manufacturing Unit, where we honoured to have esteemed guests Mrs. Ramamani, Assistant Director of Industries, and Ms. Sunita, Industrial Promotion Officer in presence of Mr. Amir Alvi, President & Head of Manufacturing, along with Mr. M. Gnanasundaram, HODs and representatives from our HR department.
- the 100 Wheelchairs were branded with Coromandel logo and post-election, they will be used in the Public Health Centres.



World Environment Day Celebrations 5th June-2024

- As part of our CSR initiative for World Environment Day,
- we organized celebrations at Mulagada and Yedurivanipalem to mark the occasion, saplings
- were planted on the Mukhyamantri Arogya Kendra premises with the participation of our employees and Hospital staff to foster eco-friendly practices
- and raise awareness, cloth bags were distributed to the community members
- And also we Organised Drawing competition on environment day related to community Children at Yedurivanipalem.



Eco Vizag cloth bags launched by GVMC Commissioner

- Coromandel's social responsibility initiatives are inspiring," said GVMC Commissioner Sampath Kumar. "The use of cloth bags for saving the environment is very important. The commissioner inaugurated 30,000 bags under the 'Swach Sarvekshana 2024 ECO Vizag' initiative by Coromandel Fertilizers in his chamber. In this regard, Coromandel's Vice President M. Gnanasundram first presented a flowering tree and congratulated him.
- As part of their social responsibility, they are giving 15,000 bags to GVMC, and the remaining will be distributed for free to the public in various markets and the city. Speaking on this occasion, the commissioner expressed his determination to make Vizag the cleanest city in the country for Swach Sarvekshana 2024. He emphasized the importance of public collaboration and the need to raise awareness among people to use environmentally friendly products, praising Coromandel for providing these bags. The event was attended by Coromandel Head HR R. Srinivasa Rao, Senior Manager HR K. Srikant, PR Consultant U. S. Sharma and me.



World Breastfeeding week

- we Organised world Breastfeeding celebration Month in August, our CMO Dr. Uday and field Health workers delivered an informative health talk to community breastfeeding mothers, emphasizing the significance of breastfeeding in providing optimal nutrition, boosting the immune system, and promoting mother-child bonding
- 1.Importance of breastfeeding for optimal growth and development
- 2.Essential diet and nutrients for mothers to produce high-quality breast milk:
- 3. Balanced meals rich in whole foods
- 4.Hydration and electrolyte intake
- 5.Foods that support lactation (e.g., oats, fenugreek)
- 6.Potential risks of not breastfeeding:
- 7.Hampered growth and development
- 8.Delayed uterus involution (return to pre-pregnancy size)
- 9.Increased risk of infections and diseases
- Dr. Uday addressed various questions and concerns raised by the community, providing clarity and reassurance on common issues. This empowered the community with knowledge and confidence to embrace breastfeeding and ensure the best possible start for their little ones
- **Initiative in August 2024 no of beneficiaries : 30**



Road Safety barricades Handed over to Commissioner of Police Visakhapatnam

- 50 road safety barricades have been handed over by Mr M Gnanasundaram Vice president & Head Mfg. Coromandel international limited to Shri Shanka brata Bagchi, Commissioner of police Visakhapatnam
- Our Head HR Mr. R Srinivasa Rao garu, Circle inspectors Mr.Koteswarao garu from Gajuwaka, Sub inspector Mr. Apparao garu from Malkapuram and Deputy Manager-CSR Mr. S Venkataramana have participated in the program.
- Unit Head Explained about the CSR initiatives and Public Relations which includes modernization of Police fitness Centre, Renovation of Malkapuram Police Station etc. Also explained about the rigorous safety standards followed at Coromandel and shared the proud moment of achieving Prestigious International safety award of 'Sword of Honour' from British Safety Counsel, United Kingdom.
- Commissioner of Police appreciated our Coromandel management for extending the support to the society.
- Initiative on 12th Aug 2024



Support to the Anganwadi's by Coromandel Ladies Association

- Our Coromandel Ladies Association visited the Anganwadi centre at Mulagada Village
- Handed over essential materials to enhance their facilities.
- Additionally, we established a Nutrition garden to support their needs
- Teachers, Parents and ICDS Supervisor Ms. Varalakshmi felt very happy ,Total benefitted children is 20.



Library for children supported by CLA

- Coromandel Ladies Association donated to Library Cupboards & Books to ZP High school Mindi
- Library set up handed overed by MD sir & COO sir
- Children & Teachers felt very happy

Total children Benefitted: 684



**Employees
volunteerism**

Month	No. Of Employees	Voluntary Hours	CLA	Voluntary Hours
Apr-24	33	91	10	15
May-24	18	18	0	0
Jun-24	44	124	7	14
Jul-24	12	26	10	10
Aug-24	43	80	13	26
Sep-24	46	77	10	20

EHS/MoEF/2023-097

01/12/2023

To
The Director,
Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road,
Nungambakkam, Chennai-600034

Dear Sir,

Sub: Half Yearly EC (Environment Clearance) Compliance Report- regd.

Ref: 1. F. No. J-11011/51/2016-IA. II(I) dated 14.07.2017
2. F. No. J-11011/51/2016-IA. II(I) dated 07.01.2021
3. F. No. J-11011/51/2016-IA. II(I) dated 27.06.2022

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for enhancement of Phosphoric Acid production (from 700 MTPD to 1000 MTPD) P2O5 and other auxiliary facilities within the existing Fertilizer Complex.

Period of submission : Apr'23 to Sep'23
Unit : Coromandel International Limited, Visakhapatnam

Thanking You,

For Coromandel International Limited



Gnanasundaram M
Vice President & Head Mfg


Encl : a/a

CC: The Member Secretary, Head Office-APPCB, Vijayawada
Joint Chief Environmental Engineer, APPCB, Zonal Office, Visakhapatnam
Environmental Engineer, APPCB, Regional Office, Visakhapatnam

EHS2-Vizag-Coromandel

From: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel
Sent: 01 December 2023 17:20
To: eccompliance-ap@gov.in; rovspappcb@gmail.com; zovspappcb
Cc: EHS2-Vizag-Coromandel; Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: Half Yearly EC (Environment Clearance) Compliance Report- regd.
Attachments: EC Compliance PA SA EXPANSION Apr-23 to Sep -23.pdf

Dear Sir,

Ref: 1. F. No. J-11011/51/2016-IA. II(I) dated 14.07.2017
2. F. No. J-11011/51/2016-IA. II(I) dated 07.01.2021
3. F. No. J-11011/51/2016-IA. II(I) dated 27.06.2022

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for enhancement of Phosphoric Acid production (from 700 MTPD to 1000 MTPD) P2O5 and other auxiliary facilities within the existing Fertilizer Complex and "Change in location of new 1500 MTPD Sulphuric Acid (100%) Plant within the existing fertilizer complex" and "to add Desalination Plant with Capacity of 15 MLD".

Period of submission : Apr'23 to Sep'23
Unit : Coromandel International Limited, Visakhapatnam

Regards,
Nagarjuna P
Manager-Environment
9100443439

SAVE ENVIRONMENT SAVE LIFE


Coromandel
FUTURE POSITIVE
Coromandel International Limited
Sriharipuram, Malkapuram PO
Visakhapatnam-530 011
Andhrapradesh, India.
F: +91 891-2578400
W: www.coromandel.biz
A MURUGAPPA GROUP COMPANY

Coromandel International Limited, Visakhapatnam

Compliance status of Environment clearance

1. F. No. J-11011/51/2016-IA. II(I) dated 14.07.2017
2. F. No. J-11011/51/2016-IA. II(I) dated 07.01.2021
3. F. No. J-11011/51/2016-IA. II(I) dated 27.06.2022

(For the period from Apr-2023 to Sep-2023)

Enhancement of Phosphoric Acid production (from 700 MTPD to 1000 MTPD) P_2O_5 and other auxiliary facilities within the existing Fertilizer Complex, Sriharipuram, Vishakhapatnam District, Andhra Pradesh by M/s Coromandel International Limited (Formerly M/s. Coromandel Fertilizer Limited) - Environmental Clearance –reg.

S.No.	Condition	Compliance
A. Specific Conditions:		
i.	Green Belt of 10 M wide (Perennial trees) to be developed in three sides of plant periphery totaling 145 acre area.	The existing green belt area is more than 33% of the requirement. However, the plantation efforts will be continued.
ii.	The present fresh water requirement is 8700 m ³ /day. Additional fresh water for the proposed enhancement is to be limited to 1650 m ³ /day. The total fresh water requirement post enhancement shall not exceed 10350 m ³ /day. The present sea water requirement for once through cooling is 63000 m ³ / day and the same will be increased post enhancement to 84600 m ³ / day.	Agreed. The project is completely implemented. The new water balance is limited to 10350 m ³ /day.
iii.	No ground water shall be used.	Existing water source is GVMC (local Municipal Body), no ground water source is used.
iv.	Post enhancement, the SO ₂ emissions from Sulphuric acid plant-I and sulphuric acid plant-2 shall be maintained at 1 kg/MT and 0.65 kg/ MT.	Noted & maintained
v.	Imported coal/ rice husk/bagasse fired boiler of 40 TPH will be installed with ESP and 56 m stack height with SO ₂ emissions limited to 1188 Kg/ day.	Complied.
vi.	Existing two nos of LSHS fired boilers will be	LSHS Fired boilers on standby only.

Coromandel International Limited, Visakhapatnam

	kept on standby mode.	
vii.	The gaseous emissions (SO ₂ , NO _x , NH ₃) and particulate matter from various process units shall conform to the norms prescribed by the CPCB/SPCB from time to time. At no time, the emission levels shall go beyond the prescribed standards. In the event of failure of any pollution control system adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency. Stack emissions shall be monitored regularly.	<p>Complied.</p> <p>All the stacks are provided/attached with Scrubbers as detailed below:</p> <p>SAP Plants: Alkali scrubbers PAP Plant: Fumes scrubber & FRU unit Complex Stacks: 4 stage scrubbers New PAP units: Scrubbers kept in place. Ball Mill: Bag Filters kept in inline Coal Fired Boiler: ESP kept in Line. The emissions are maintained within the prescribed limits by CPCB/SPCB.</p>
viii.	Ambient air quality data shall be collected as per NAAQS standards notified by the Ministry vide G.S.R. No. 826(E) dated 16 th September, 2009. The levels of PM ₁₀ , SO ₂ , NO _x , Ammonia, shall be monitored in the ambient air and displayed at a convenient location near the main gate of the company and at important public places. The company shall upload the results of monitored data on its website and shall update the same periodically. It shall simultaneously be sent to the Regional office of MOEF, the respective Zonal office of CPCB and the concerned State Pollution Control Board (SPCB).	Complied
IX.	No process effluent shall be discharged in and around the project site. Process effluents shall be treated in ETP. Sewage shall be treated in STP. Both treated sewage water and process effluents shall be recycled/reused within factory premises to achieve zero discharge except during the rainy season.	<p>All the process effluent is being treated in ETP.</p> <p>Sewage treated in STP and treated water is being used for plantation</p>
x.	Risk assessment plan to be prepared and implemented.	complied
xi.	In plant control measures for checking fugitive emissions from all the vulnerable sources shall	Complied.

Coromandel International Limited, Visakhapatnam

	be provided. Fugitive emissions shall be controlled by providing closed storage, closed handling & conveyance of chemicals/materials, multi cyclone separator and water sprinkling system. Fugitive emissions in the work zone environment, product, raw materials storage area etc. shall be regularly monitored. The emissions should conform to the limits stipulated by the concerned SPCB.	All the necessary precautions for closed transport of raw materials and operations will be implemented for limiting of fugitive emissions. Emissions are maintained within CPCB/SPCB prescribed limits.
xii.	The gaseous emissions from DG set shall be dispersed through adequate stack height as per CPCB standards. Acoustic enclosure shall be provided to the DG sets to mitigate the noise pollution.	DGs are only in standby and acoustic enclosure provided.
xiii.	The company shall construct the garland drain all around the project site to prevent runoff of any chemicals containing waste into the nearby water bodies. Effluent shall be properly treated and treated wastewater shall conform to CPCB standards.	Garland drains have been provided. Effluent is being treated in ETP
xiv.	The company shall obtain Authorization for collection, storage and disposal of hazardous waste under the Hazardous Waste (Management, Handling and Trans-Boundary Movement) Rules, 2008 and amended as on date for management of Hazardous wastes. Measures shall be taken for firefighting facilities in case of emergency.	Complied. CFO has been obtained Order No. APPCB/VSP/65/CFO/HO/1967 - 30/09/2022
xv.	The by-products which fall under the purview of the Hazardous Waste Rules, be handled as per the provisions of the said Rules and necessary permissions shall be obtained under the said rules.	Complied
xvi.	Spent catalysts and used oil shall be sold to authorized recyclers /re-processors only. 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.	Complied. As per the existing procedure, respective wastes are sent to authorized recyclers/PCB approved TSDFs.
xvii.	The company shall strictly follow all the recommendations mentioned in the Charter on	Complied

Coromandel International Limited, Visakhapatnam

	Corporate Responsibility for Environmental Protection (CREP).	
xviii.	All the commitments made during the Public Hearing/Public Consultation meeting held on 8th December, 2016 shall be satisfactorily implemented and adequate budget provision shall be made accordingly.	Noted and being followed.
xix.	Remote operated valve placed on NH3 line to avoid leakage/equipment check shall be performed to ensure that remote operated valve (ROV) is all time is functional.	Complied and PM schedule adhered
xx.	At least 5 % of the total cost of the project shall be earmarked towards the Enterprise Social Commitment (ESC) based on local needs and action plan with financial and physical breakup/details shall be prepared and submitted to the Ministry's Regional Office at Bhopal. Implementation of such program shall be ensured accordingly in a time bound manner.	CSR expenditure is being spent as per the 5% of the project cost.
XXI.	Occupational health surveillance of the workers should be done on a regular basis and records maintained as per the Factories Act.	Complied and continued as per the factories act.
xxii.	Provision shall be made for the housing for the construction labor within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile sewage treatment plant, safe drinking water, medical health care, creche etc. The housing may be in the form of temporary structure to be removed after the completion of the project. All the construction wastes shall be managed so that there is no impact on the surrounding environment.	Complied.
xxiii.	An Environment Cell will be set. up and a regular environmental manager having PG qualification in environmental sciences/environmental engineering to be appointed for looking after the environmental management practices in the plant.	Environmental Management Cell is presently headed by AGM-EHS and is supported by environmental manager.
	B. GENERAL CONDITIONS:	
i.	The project authorities must strictly adhere to the stipulations made by the state Pollution	Agreed.

Coromandel International Limited, Visakhapatnam

	Control Board (SPCB), State Government and any other statutory authority.	
ii.	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted 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.	Agreed.
iii.	The locations of ambient air quality monitoring stations shall be decided in consultation with the State Pollution Control Board (SPCB) and it shall be ensured that at least one stations is installed in the upwind and downwind direction as well as where maximum ground level concentrations are anticipated.	Complied. There are two monitoring locations one in upwind and one in down wind direction, towards, Mulagada & Gullapalem.
iv.	The National Ambient Air Quality Emission Standards issued by the Ministry vide G.S.R. No. 826(E) dated 16th November, 2009 shall be followed.	It is being Complied. Find enclosed Annexure-01 Environment monitoring reports for your reference.
v.	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 (day time) and 70 dBA (night time).	Complied and noise levels are within the standards prescribed. Find enclosed Annexure-01 Environment monitoring reports for your reference.
vi.	The Company shall harvest rainwater from the roof tops of the buildings and storm water drains to recharge the ground water and use the same water for the process activities of the project to conserve fresh water.	complied
vii.	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	Training is being imparted regularly to employees. Pre employment medical check is part of HR policy before joining. Annual medical checkup is being

Coromandel International Limited, Visakhapatnam

	basis. Training to all employees on handling of chemicals shall be imparted.	undertaken regularly for all the employees.
viii.	The company shall also comply with all the environmental protection measures and safeguards proposed in the documents submitted to the Ministry. All the recommendations made in the EIA/EMP in respect of environmental management, risk mitigation measures and public hearing relating to the project shall be implemented.	Complied
ix.	The company shall undertake all relevant measures for improving the socio-- economic conditions of the surrounding area. CSR activities shall be undertaken by involving local villages and administration.	Complied as per the submitted CSR plan
x.	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment.	Complied as per the submitted CSR plan
xi.	A separate Environmental Management Cell equipped with full fledged laboratory facilities shall be set up to carry out the Environmental Management and Monitoring functions.	Environmental Management Cell is presently headed by AGM-EHS. In house laboratory is in place to monitor emissions & effluent.
xii.	The company shall earmark sufficient funds towards capital cost and recurring cost per annum 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 so earmarked for environment management/pollution control measures shall not be diverted for any other purpose.	Complied
xiii.	A copy of the clearance letter shall be sent by the project proponent to concerned Panchayat, ZilaParisad/ Municipal Corporation, Urban local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal.	complied
xiv.	The project proponent shall also submit six monthly reports on the status of compliance of the stipulated Environmental Clearance conditions including results of monitored data	Complied

Coromandel International Limited, Visakhapatnam

	(both in hard copies as well as bye-mail) to the respective Regional Office of MoEF, the respective Zonal Office of CPCB and SPCB. A copy of Environmental Clearance and six monthly compliance status report shall be posted on the website of the company.	
xv.	The environmental statement for each financial year ending 31st March in Form-Vas is mandated shall be submitted 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 clearance conditions and shall also be sent to the respective Regional Offices of MoEF by e-mail.	<p>Complied and environmental statement for FY:2022-23 has been submitted on 28.09.2023.</p> <p>Find enclosed Annexure-02 Form-V acknowledgement copy for your reference.</p>
xvi.	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 seen at Website of the Ministry at http://moef.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.	Complied
xvii.	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Complied

Coromandel International Limited, Visakhapatnam

Compliance to Amended Environmental Clearance dated 07.01.2021

F. No. J-11011/51/2016-IA-II (I) dt 7th January 2021

Proposed setting up of new 1500 MTPD Sulphuric acid (100%) plant within the Existing Fertilizer Complex, for total Sulphuric acid production of 3600 MTPD at Sriharipuram, Vishakhapatnam district, Andhra Pradesh, without increase pollution load and total production of NP/NPK (3900 MTPD) and Phosphoric Acid (1400 MTPD) by M/s. Coromandel International Limited (Formerly M/s Coromandel Fertilizers limited).

Sl. No	Para of EC issued by MoEF&CC	Description/Conditions	Compliance
1	Subject	Proposed setting up of new 1500 MTPD Sulphuric acid (100%) plant within the Existing Fertilizer Complex, for total Sulphuric acid production of 3600 MTPD at Sriharipuram, Vishakhapatnam district, Andhra Pradesh, without increase pollution load and total production of NP/NPK (3900 MTPD) and Phosphoric Acid (1400 MTPD) by M/s. Coromandel International Limited (Formerly M/s Coromandel Fertilizers limited).	-
2	Point 2	The Ministry of Environment, Forests and Climate Change has examined the application. It is noted that proposal is for <u>setting up of new 1500 MTPD Sulphuric acid (100%) plant within the Existing Fertilizer Complex, for total Sulphuric acid production of 3600 MTPD at Sriharipuram, Vishakhapatnam district, Andhra Pradesh, without increase pollution load and total production of NP/NPK (3900 MTPD) and Phosphoric Acid (1400 MTPD) by M/s. Coromandel International Limited (Formerly M/s Coromandel Fertilizers limited)</u>	-
3	Point 3	Existing land area is <u>313 Acres</u> , of which 120 acres is developed as greenbelt. <u>Additional cost of the project is ~ 400 Crore.</u> The additional estimated cost of various environmental management programs in the proposed project is ~ 10 Cr which is	Agreed and noted for compliance

Coromandel International Limited, Visakhapatnam

		<p>around 2.5% of proposed Additional project cost. <u>In order to achieve consented production of 3900 MTPD NP/NPK production, the facility intends to adopt the following modifications and upgrades in the upstream of the complex fertilize manufacturing units:</u></p> <ul style="list-style-type: none"> • Installation of Additional 1500 MTPD of Sulphuric Acid production plant along with existing 2100 MTPD Sulphuric Acid Plant (SAP-1 (1700 MTPD) & SAP2 (400 MTPD)). Total production capacity of Sulphuric acid shall be 3600 MTPD • Use of low sulphur coal in coal fired boiler and optimizing operations of existing sulphuric acid plant – I and coal fired boiler for no change in SO₂ emission from the sanctioned emission load. • Existing Phosphoric acid plant with production capacity of 1400 MTPD • Provision of Sulfuric Acid storage capacity of 2 x 5000 MT + 2 X 12,500 MT +1500 MT along with existing storage capacity of 15,000 MT 	
4	Point 4	<p>Power requirement will be increased from <u>20 MW to 21 MW</u>. The facility has contracted grid power of 12 MW, 5 MW from APGPCL and in-house steam turbine capacity of 5MW. The net available power for the existing operation is in the order of 22 MW. Hence the available power is adequate to meet the total requirement of <u>21 MW</u> post enhancement.</p>	Agreed
5	Point para3 4	<p>Fresh water requirement will be increased from 10350 m³/day to 14550 m³/day, which will be sourced from Greater Vishakhapatnam Municipal Corporation (GVMC). Sea water consumption will be same i.e 84600 m³/ day.</p>	Agreed and noted for compliance

Coromandel International Limited, Visakhapatnam

6	A-Specific Condition 1	Green Belt of 10 M wide (Perennial trees) to be developed in three sides of plant periphery totaling <u>120 acre area</u> .	Agreed. The existing green belt area is more than 33% of the requirement. However, the plantation efforts will be continued.
7	A-Specific Condition 1	The present freshwater requirement is <u>10350 m3/day</u> . <u>Additional fresh water for the proposed enhancement will be 4200 m3/day</u> . <u>The total freshwater requirement post enhancement shall not exceed 14550 m3/day</u> . The present sea water requirement for once through cooling will remain to be <u>84600 m3 / day</u> .	Agreed
8	A-specific Condition 4	Post amendment, the SO2 emissions from Sulphuric acid plant-1 and sulphuric acid plant-2 shall be maintained at 0.8 kg/MT and 0.65 kg/ MT and in Sulphuric Acid Plant-3 shall be maintained at 0.75 kg/MT.	Noted. These are applicable only after the capacity enhancement through the addition of Sulphuric Acid Plant -3 in which the SO2 shall be maintained at 0.75 kg/MT. We have already requested to accord a line of confirmation in this regard.

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Laboratory Recognised by Ministry of Environment, Forests and Climate Change, Govt, New Delhi
NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CFL/20/0423

dt.02.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

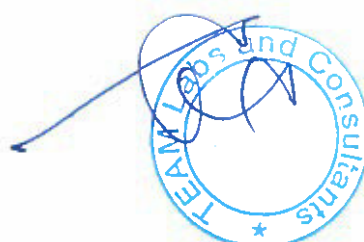
Date of Collection: As per details Given

Analysis Report for the Month of APRIL-2023

Date of monitoring	Time	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
26.04.2023 To 27.04.2023	09.00 to 09.00 hrs	36	78	14.0	19.4

All values are given in µg/m³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Env/CFL/20/0523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of MAY-2023

Date of monitoring	Time	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
25.05.2023 To 26.05.2023	09.00 to 09.00 hrs	38	85	15.7	20.4

All values are given in µg/m³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CFL/20/0623

dt. 01.07.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

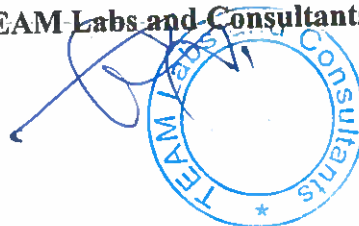
Date of Collection: As per details Given

Analysis Report for the Month of JUNE-2023

Date of monitoring	Time	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
28.06.2023 To 29.06.2023	09.00 to 09.00 hrs	40	88	16.2	22.8

All values are given in µg/m³

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TEST REPORT

Test Report No.TLC/V/Env/CFL/20/0723

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

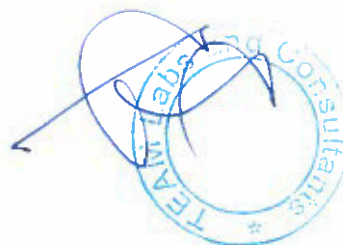
Date of Collection: As per details Given

Analysis Report for the Month of JULY-2023

Date of monitoring	Time	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
28.07.2023 To 29.07.2023	09.00 to 09.00 hrs	36	80	14.2	16.8

All values are given in µg/m³

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CFL/20/0823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of AUGUST-2023

Date of monitoring	Time	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
29.08.2023 To 30.08.2023	09.00 to 09.00 hrs	44	90	16.8	21.4

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No.TLC/V/Env/CFL/20/0923

dt.03.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

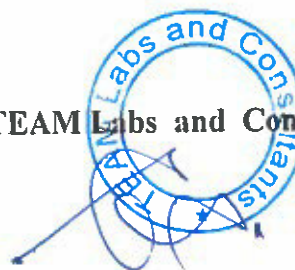
Date of Collection: As per details Given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	Time	PM 2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
30.09.2023 To 01.10.2023	09.00 to 09.00 hrs	35	78	12.2	15.8

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0423

dt.02.05.2023

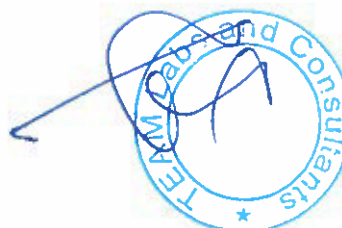
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring : For the Month of APRIL-2023

Summary of Ambient Air quality Monitoring Data for the Month of APRIL-2023

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	30	36	34
	Maximum	41	42	43
	98%tile	41	42	43
	Average	37	39	39
PM 10	Minimum	62	68	62
	Maximum	75	82	82
	98%tile	75	82	82
	Average	70	75	76
SO ₂	Minimum	13.9	22.0	12.8
	Maximum	21.5	26.8	15.0
	Average	18.5	24.2	13.9
	98%tile	21.5	26.8	15.0
NO _x	Minimum	17.9	22.2	16.3
	Maximum	23.3	27.2	18.5
	98%tile	23.3	27.2	18.5
	Average	21.2	24.1	17.2
NH ₃	Minimum	0.01mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	98%tile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

All values are expressed in $\mu\text{g}/\text{m}^3$
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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0523

dt.01.06.2023

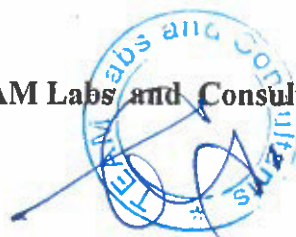
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring : For the Month ofMAY-2023

Summary of Ambient Air quality Monitoring Data for the Month ofMAY-2023

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	32	34	36
	Maximum	43	44	45
	98%tile	43	44	45
	Average	38	39	40
PM 10	Minimum	62	69	69
	Maximum	79	84	82
	98%tile	79	84	82
	Average	71	76	77
SO ₂	Minimum	14.7	23.1	13.8
	Maximum	23.3	28.5	15.5
	Average	19.6	25.0	14.7
	98%tile	23.3	28.5	15.5
NO _x	Minimum	18.1	22.8	15.9
	Maximum	22.9	26.7	19.6
	98%tile	22.9	26.7	19.6
	Average	21.0	24.3	18.5
NH ₃	Minimum	0.01mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	98%tile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0623

dt.01.07.2023

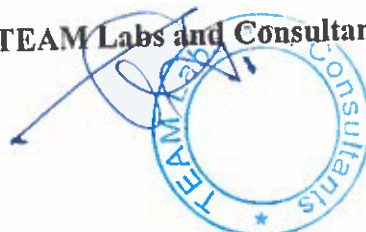
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring : For the Month of JUNE-2023

Summary of Ambient Air quality Monitoring Data for the Month of JUNE-2023

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	28	30	29
	Maximum	42	43	44
	98%tile	42	43	44
	Average	37	39	39
PM 10	Minimum	58	61	62
	Maximum	78	85	83
	98%tile	78	85	83
	Average	70	76	76
SO ₂	Minimum	13.4	14.7	11.0
	Maximum	24.5	28.5	16.0
	Average	20.6	25.0	14.5
	98%tile	24.5	28.5	16.0
NO _x	Minimum	16.6	16.8	14.7
	Maximum	24.3	27.2	20.2
	98%tile	24.3	27.2	20.2
	Average	21.4	23.8	18.5
NH ₃	Minimum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	98%tile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

All values are expressed in $\mu\text{g}/\text{m}^3$
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dt.01.07.2023

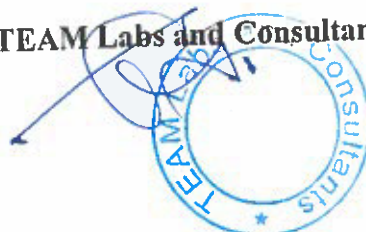
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring: For the Month of JUNE-2023

Summary of Ambient Air quality Monitoring Data for the Month of JUNE-2023

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	28	30	29
	Maximum	42	43	44
	98%tile	42	43	44
	Average	37	39	39
PM 10	Minimum	58	61	62
	Maximum	78	85	83
	98%tile	78	85	83
	Average	70	76	76
SO ₂	Minimum	13.4	14.7	11.0
	Maximum	24.5	28.5	16.0
	Average	20.6	25.0	14.5
	98%tile	24.5	28.5	16.0
NO _x	Minimum	16.6	16.8	14.7
	Maximum	24.3	27.2	20.2
	98%tile	24.3	27.2	20.2
	Average	21.4	23.8	18.5
NH ₃	Minimum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	98%tile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

All values are expressed in $\mu\text{g}/\text{m}^3$
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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0823

dt.01.09.2023

Description of Test:

Ambient Air quality Monitoring inside the CFL

Name of the client:

Coromandel International Limited, Visakhapatnam

Location of sampling:

Stations as per details given

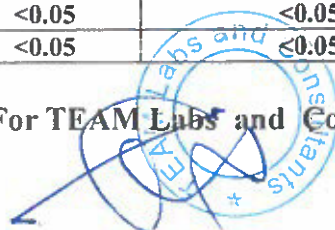
Period of Monitoring :

For the Month of AUGUST-2023

Summary of Ambient Air quality Monitoring Data for the Month of AUGUST-2023

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	30	34	32
	Maximum	43	45	40
	98%tile	43	45	40
	Average	37	40	36
PM 10 µg/M ³	Minimum	54	60	60
	Maximum	80	82	75
	98%tile	80	82	75
	Average	71	75	69
SO ₂ µg/M ³	Minimum	13.8	14.9	9.5
	Maximum	22.3	27.0	14.8
	Average	19.7	22.8	13.3
	98%tile	22.3	27.0	14.8
NO _x µg/M ³	Minimum	15.0	13.8	12.8
	Maximum	22.8	26.0	18.2
	98%tile	22.8	26.0	18.2
	Average	20.3	21.1	15.5
NH ₃ mg/M ³	Minimum	0.01	0.01	0.01
	Maximum	0.02	0.03	0.01
	98%tile	0.02	0.03	0.01
	Average	0.015	0.02	0.01
O ₃ µg/M ³	Minimum	10	10	10
	Maximum	18	20	12
	98%tile	18	20	12
	Average	11.8	14.5	10.25
CO mg/M ³	Minimum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	98%tile	0.1	0.2	0.2
	Average	0.1	0.12	0.11
Pb µg/M ³	<0.05	<0.05	<0.05	<0.05
C6H6 ng/M ³	<0.05	<0.05	<0.05	<0.05
B(a)P ng/M ³	<0.05	<0.05	<0.05	<0.05
As ng/M ³	<0.05	<0.05	<0.05	<0.05
Ni ng/M ³	<0.05	<0.05	<0.05	<0.05

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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0923

dt.03.10.2023

Description of Test:

Ambient Air quality Monitoring inside the CFL

Name of the client:

Coromandel International Limited, Visakhapatnam

Location of sampling:

Stations as per details given

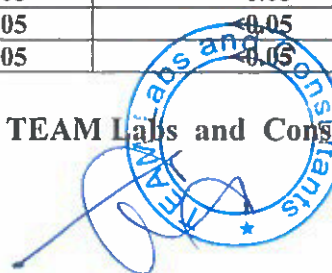
Period of Monitoring :

For the Month ofSEPTEMBER-2023

Summary of Ambient Air quality Monitoring Data for the Month ofSEPTEMBER-2023

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate-13 (Near Bagging plant)
PM2.5	Minimum	28	26	25
	Maximum	40	42	41
	98%tile	40	42	41
	Average	35	35	34
PM 10 µg/M ³	Minimum	55	50	48
	Maximum	74	79	72
	98%tile	74	79	72
	Average	67	67	64
SO ₂ µg/M ³	Minimum	11.2	10.5	8.9
	Maximum	18.0	24.3	14.9
	Average	15.4	18.1	12.5
	98%tile	18.0	24.3	14.9
NO _x µg/M ³	Minimum	13.8	19.3	11.3
	Maximum	20.4	25.0	16.8
	98%tile	20.4	25.0	16.8
	Average	17.8	22.2	14.4
NH ₃ mg/M ³	Minimum	0.01	0.01	0.01
	Maximum	0.02	0.03	0.012
	98%tile	0.02	0.03	0.012
	Average	0.015	0.017	0.011
O ₃ µg/M ³	Minimum	8	8	8
	Maximum	14	18	14
	98%tile	14	18	14
	Average	11.2	13.5	11.2
CO mg/M ³	Minimum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	98%tile	0.1	0.2	0.2
	Average	0.1	0.14	0.13
Pb µg/M ³	<0.05	<0.05	<0.05	<0.05
C6H6 ng/M ³	<0.05	<0.05	<0.05	<0.05
B(a)P ng/M ³	<0.05	<0.05	<0.05	<0.05
As ng/M ³	<0.05	<0.05	<0.05	<0.05
Ni ng/M ³	<0.05	<0.05	<0.05	<0.05

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TEST REPORT

Test Report No.TLC/V/Env/CIL/15/0423

dt.02.05.2023

Description of Test: Surrounding village wells-Ground water analysis

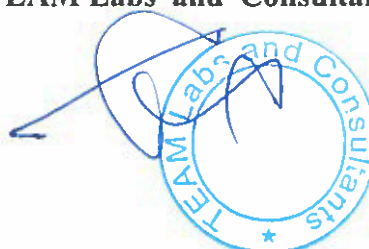
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 25.04.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica l Nitrogen mgpl
1	Kamaladevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.4	Nil	0.3	Nil
3	Yeduruvanipalem-1	7.3	Nil	0.3	Nil
4	Yeduruvanipalem-2	7.4	Nil	0.3	Nil
5	Mulagada No.1	7.3	Nil	0.3	Nil
6	Mulagada No.2	7.4	Nil	0.3	Nil
7	Mulagada No.3	7.5	Nil	0.3	Nil
8	Kodipandala dibba	7.4	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CIL/15/0523

dt.01.06.2023

Description of Test: Surrounding village wells-Ground water analysis

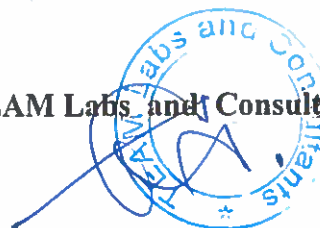
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 20.05.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.5	Nil	0.3	Nil
4	Yeduruvanipalem-2	7.4	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.3	Nil
8	Kodipandala dibba	7.4	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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TEST REPORT

Test Report No.TLC/V/Env/CIL/15/0623

dt.01.07.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 22.06.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.5	Nil	0.3	Nil
4	Yeduruvanipalem-2	7.4	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.3	Nil
8	Kodipandala dibba	7.4	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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TEST REPORT

Test Report No.TLC/V/Env/CIL/15/0723

dt.01.08.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 17.07.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.7	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.8	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.7	Nil	0.2	Nil
4	Yeduruvanipalem-2	7.8	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.2	Nil
8	Kodipandala dibba	7.6	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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Test Report No.TLC/V/Env/CIL/15/0823

dt.01.09.2023

Description of Test: Surrounding village wells-Ground water analysis

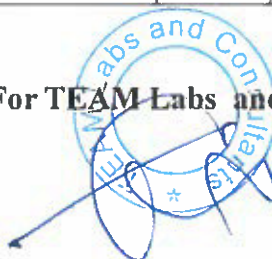
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 19.08.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonical Nitrogen mgpl
1	Kamaladevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.5	Nil	0.2	Nil
4	Yeduruvanipalem-2	7.7	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.5	Nil	0.2	Nil
7	Mulagada No.3	7.6	Nil	0.2	Nil
8	Kodipandala dibba	7.6	Nil	0.2	Nil
	Proocol	IS:3025 Part 11- 1983	APHA4500D	SM 4500 F- D	APHA4500C

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TEST REPORT

Test Report No.TLC/V/Env/CIL/15/0923

dt.03.10.2023

Description of Test: Surrounding village wells-Ground water analysis

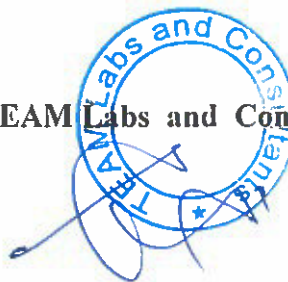
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 28.09.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.7	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.6	Nil	0.2	Nil
4	Yeduruvanipalem-2	7.8	Nil	0.2	Nil
5	Mulagada No.1	7.7	Nil	0.3	Nil
6	Mulagada No.2	7.5	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.2	Nil
8	Kodipandala dibba	7.8	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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Test Report No.TLC/V/Env/CFL/16/0423

dt.02.05.2023

Description of Test: Peizo wells analysis

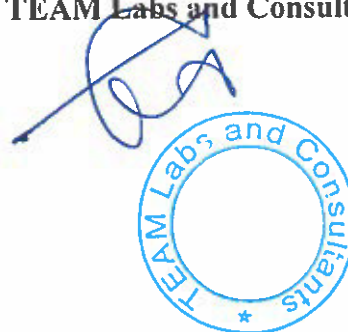
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	25.04.2023	CFL - colony	0.4
2	"	Near 4 OP Gate	0.5
3	"	Near 7 th gate	0.5
4	"	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

Test Report No.TLC/V/Env/CFL/16/0523

dt.01.06.2023

Description of Test: Peizo wells analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	20.05.2023	CFL - colony	0.5
2	„	Near4 OP Gate	0.6
3	„	Near 7 th gate	0.5
4	„	CRC	0.7
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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Test Report No.TLC/V/Env/CFL/16/0623

dt.01.07.2023

Description of Test: Peizo wells analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	16.06.2023	CFL - colony	0.5
2	"	Near 4 OP Gate	0.6
3	"	Near 7 th gate	0.5
4	"	CRC	0.7
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

Test Report No.TLC/V/Env/CFL/16/0723

dt.01.08.2023

Description of Test: Peizo wells analysis

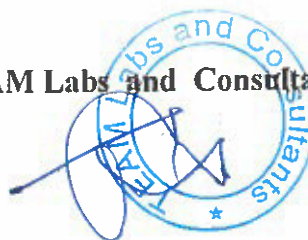
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	18.07.2023	CFL - colony	0.4
2	18.07.2023	Near 4 OP Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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Test Report No.TLC/V/Env/CFL/16/0823

dt.01.09.2023

Description of Test: Peizo wells analysis

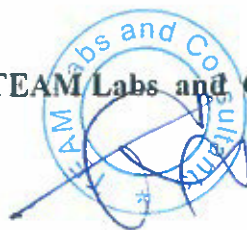
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	12.08.2023	CFL - colony	0.4
2	12.08.2023	Near 4 OP Gate	0.5
3	12.08.2023	Near 7 th gate	0.6
4	12.08.2023	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

Test Report No.TLC/V/Env/CFL/16/0923

dt.03.10.2023

Description of Test: Peizo wells analysis

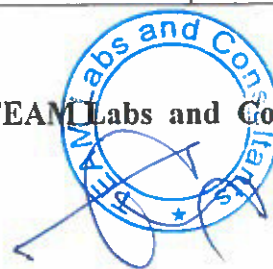
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	26.09.2023	CFL - colony	0.5
2	26.09.2023	Near 4 OP Gate	0.6
3	26.09.2023	Near 7 th gate	0.7
4	26.09.2023	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

Test Report No.TLC/V/Env/CIL/11/0423

dt.02.05.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

Coromandel International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OF APRIL-2023

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	194615	Particulate matter	22	45 mg/NM ³
			Ammonia	95	165.0 mg/NM ³
			Fluoride	0.6	4.0 mg/NM ³
2	Complex B	182573	Particulate matter	24	45 mg/NM ³
			Ammonia	105	165.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
3	Complex C	171260	Particulate matter	20	45 mg/NM ³
			Ammonia	90	165.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
4	Sulphuric acid plant-I	96029	Sulphur dioxide	0.081Kg/MT (60mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	24581	Sulphur dioxide	0.029Kg/MT (20mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	158651	Particulate matter	20	50 mg/NM ³
			Fluoride	6.8	20 mg/NM ³
7	Rock grinding unit (Old)	8593	Particulate matter	27	50 mg/NM ³
			Total Fluoride	2.1	20 mg/NM ³
8	Wharf Boiler	7257	Particulate matter	40	115 mg/NM ³
9	Phosphoric acid plant-2	26241	Particulate matter	24	50 mg/NM ³
			Total Fluoride	2.2	20 mg/NM ³
10	Rock grinding unit (New)	7623	Particulate matter	45	50 mg/NM ³
			Total Fluoride	3.8	20 mg/NM ³

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Test Report No.TLC/V/Env/CIL/11/0523

dt.01.06.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

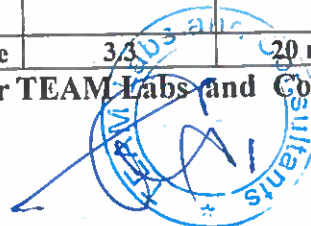
Coromandel International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OFMAY-2023

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	204895	Particulate matter	20	45 mg/NM ³
			Ammonia	66	165.0 mg/NM ³
			Fluoride	0.9	4.0 mg/NM ³
2	Complex B	196420	Particulate matter	22	45 mg/NM ³
			Ammonia	85	165.0 mg/NM ³
			Fluoride	1.3	4.0 mg/NM ³
3	Complex C	196883	Particulate matter	18	45 mg/NM ³
			Ammonia	72	165.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
4	Sulphuric acid plant-1	92518	Sulphur dioxide	0.125Kg/MT (95mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	266931	Sulphur dioxide	0.048Kg/MT (30mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	155293	Particulate matter	19	50 mg/NM ³
			Fluoride	5.8	20 mg/NM ³
7	Rock grinding unit (Old)	9009	Particulate matter	25	50 mg/NM ³
			Total Fluoride	2.3	20 mg/NM ³
8	Wharf Boiler	8571	Particulate matter	35	115 mg/NM ³
9	Phosphoric acid plant-2	26867	Particulate matter	22	50 mg/NM ³
			Total Fluoride	2.1	20 mg/NM ³
10	Rock grinding unit (New)	8316	Particulate matter	39	50 mg/NM ³
			Total Fluoride	3.3	20 mg/NM ³

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TEST REPORT**SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OF JUNE-2023**

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	201864	Particulate matter	22	45 mg/NM ³
			Ammonia	65	165.0 mg/NM ³
			Fluoride	1.0	4.0 mg/NM ³
2	Complex B	192974	Particulate matter	20	45 mg/NM ³
			Ammonia	90	165.0 mg/NM ³
			Fluoride	1.8	4.0 mg/NM ³
3	Complex C	195186	Particulate matter	19	45 mg/NM ³
			Ammonia	85	165.0 mg/NM ³
			Fluoride	1.6	4.0 mg/NM ³
4	Sulphuric acid plant-1	98724	Sulphur dioxide	0.299Kg/MT (215mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	30430	Sulphur dioxide	0.164Kg/MT (90mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	159643	Particulate matter	30	50 mg/NM ³
			Fluoride	8.8	20 mg/NM ³
7	Rock grinding unit (Old)	8316	Particulate matter	30	50 mg/NM ³
			Total Fluoride	3.3	20 mg/NM ³
8	Wharf Boiler	8292	Particulate matter	24	115 mg/NM ³
9	Phosphoric acid plant-2	26506	Particulate matter	32	50 mg/NM ³
			Total Fluoride	4.8	20 mg/NM ³
10	Rock grinding unit (New)	8177	Particulate matter	35	50 mg/NM ³
			Total Fluoride	3.8	20 mg/NM ³

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TEST REPORT

Test Report No.TLC/V/Env/CFL/16/0723

dt.01.08.2023

Description of Test: Peizo wells analysis

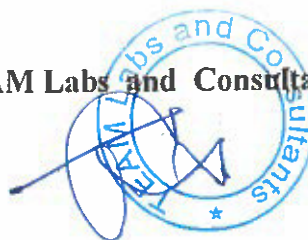
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	18.07.2023	CFL - colony	0.4
2	18.07.2023	Near4 OP Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Env/CIL/11/0823

dt.01.09.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

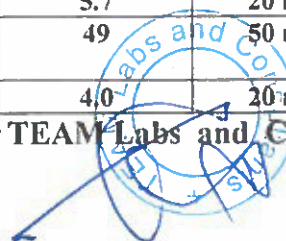
Coromandel International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OF AUGUST-2023

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	194605	Particulate matter	21	45 mg/NM ³
			Ammonia	90	165.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
2	Complex B	183191	Particulate matter	20	45 mg/NM ³
			Ammonia	80	165.0 mg/NM ³
			Fluoride	2.0	4.0 mg/NM ³
3	Complex C	187851	Particulate matter	24	45 mg/NM ³
			Ammonia	65	165.0 mg/NM ³
			Fluoride	1.6	4.0 mg/NM ³
4	Sulphuric acid plant-I	100877	Sulphur dioxide	0.170Kg/MT (120mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	32449	Sulphur dioxide	0.117Kg/MT (60mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	143374	Particulate matter	40	50 mg/NM ³
			Fluoride	8.1	20 mg/NM ³
7	Rock grinding unit (Old)	8316	Particulate matter	48	50 mg/NM ³
			Total Fluoride	4.7	20 mg/NM ³
8	Wharf Boiler	8466	Particulate matter	31	115 mg/NM ³
9	Phosphoric acid plant-2	27662	Particulate matter	42	50 mg/NM ³
			Total Fluoride	5.7	20 mg/NM ³
10	Rock grinding unit (New)	8177	Particulate matter	49	50 mg/NM ³
			Total Fluoride	4.0	20 mg/NM ³

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TEST REPORT

Test Report No. TLC/V/Env/CIL/11/0923

dt.03.10.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

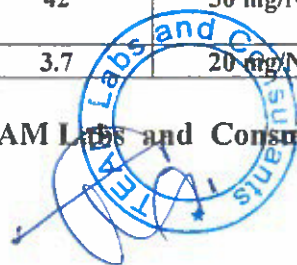
Coromandel International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per details given

SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OF SEPTEMBER-2023

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	196883	Particulate matter	18	45 mg/NM ³
			Ammonia	95	165.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
2	Complex B	188955	Particulate matter	22	45 mg/NM ³
			Ammonia	75	165.0 mg/NM ³
			Fluoride	1.9	4.0 mg/NM ³
3	Complex C	200182	Particulate matter	20	45 mg/NM ³
			Ammonia	72	165.0 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
4	Sulphuric acid plant-I	99750	Sulphur dioxide	0.154Kg/MT (110mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	31884	Sulphur dioxide	0.126Kg/MT (66mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	143822	Particulate matter	36	50 mg/NM ³
			Fluoride	6.9	20 mg/NM ³
7	Rock grinding unit (Old)	8455	Particulate matter	45	50 mg/NM ³
			Total Fluoride	3.9	20 mg/NM ³
8	Wharf Boiler	8728	Particulate matter	38	115 mg/NM ³
9	Phosphoric acid plant-2	28097	Particulate matter	40	50 mg/NM ³
			Total Fluoride	4.4	20 mg/NM ³
10	Rock grinding unit (New)	7900	Particulate matter	42	50 mg/NM ³
			Total Fluoride	3.7	20 mg/NM ³

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CIL/14/0423

dt.02.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

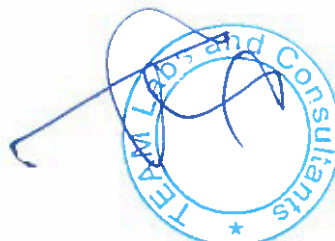
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	24	45	10.2	13.3
06.04.2023	26	50	11.3	14.7
10.04.2023	28	55	10.4	15.6
12.04.2023	30	60	9.7	14.4
17.04.2023	32	65	12.2	17.7
19.04.2023	28	59	10.8	15.3
24.04.2023	25	53	9.5	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CIL/13/0423

dt.02.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

Date of Collection: As per details given

Analysis Report for the Month of APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	28	57	10.1	13.3
06.04.2023	27	56	9.8	14.3
10.04.2023	30	60	12.7	16.6
12.04.2023	32	65	13.0	16.6
17.04.2023	29	60	10.2	15.5
19.04.2023	30	64	11.2	17.2
24.04.2023	26	55	9.7	13.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No.TLC/V/Env/CIL/13/0523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

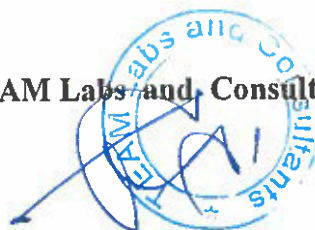
Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	30	58	11.5	15.5
04.05.2023	28	55	10.6	14.3
09.05.2023	31	62	12.5	16.6
11.05.2023	32	66	14.7	18.2
15.05.2023	28	58	10.5	15.5
19.05.2023	30	62	9.9	16.6
20.05.2023	27	56	9.2	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No.TLC/V/Env/CIL/14/0523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

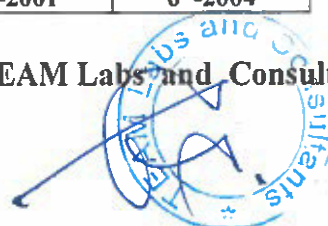
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
09.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.2	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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TEST REPORT

Test Report No.TLC/V/Env/CIL/14/0523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

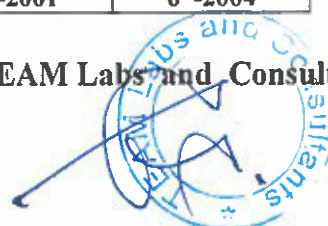
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
09.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.2	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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TEST REPORT

Test Report No.TLC/V/Env/CIL/13/0623

dt.01.07.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Mulagada
Date of Collection: As per details given

Analysis Report for the Month of JUNE-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.06.2023	31	60	11.5	13.8
07.06.2023	30	58	12.0	16.3
13.06.2023	32	62	12.5	16.6
15.06.2023	34	66	14.2	18.2
20.06.2023	25	55	10.2	15.5
23.06.2023	20	56	8.0	10.8
26.06.2023	29	60	9.7	14.3
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No.TLC/V/Env/CIL/14/0723

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of JULY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.07.2023	22	48	9.5	12.6
08.07.2023	24	50	10.2	13.3
10.07.2023	22	45	9.4	11.8
13.07.2023	19	40	8.6	10.5
18.07.2023	16	34	7.4	9.8
22.07.2023	14	30	7.0	9.5
24.07.2023	15	38	8.0	10.8
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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TEST REPORT

Test Report No.TLC/V/Env/CIL/13/0723

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

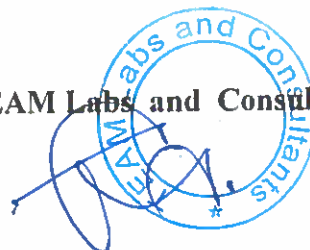
Date of Collection: As per details given

Analysis Report for the Month of JULY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.07.2023	28	54	11.0	13.8
08.07.2023	26	55	10.5	14.2
10.07.2023	30	60	11.8	15.2
13.07.2023	20	42	9.7	13.5
18.07.2023	18	40	8.0	10.6
22.07.2023	16	35	7.8	10.0
24.07.2023	20	40	8.0	10.8
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

All values are given in $\mu\text{g}/\text{m}^3$

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Laboratory Recognised by Ministry of Environment, Forests and Climate Change, Govt, New Delhi
NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CIL/14/0823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of AUGUST-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.08.2023	28	58	9.8	14.2
04.08.2023	26	55	10.0	13.5
09.08.2023	30	60	9.6	12.7
11.08.2023	32	57	11.2	15.0
16.08.2023	27	52	9.5	11.6
18.08.2023	15	38	8.0	10.2
21.08.2023	24	50	9.7	12.2
Protocol	Gravimetric, CPCB annual	IS5182 PART-23 -2006	IS5182 PART-2 -2001	IS5182 PART-6 -2004

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CIL/13/0823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

Date of Collection: As per details given

Analysis Report for the Month of AUGUST-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.08.2023	26	54	10.8	14.0
04.08.2023	27	55	9.9	13.2
09.08.2023	32	64	11.0	16.3
11.08.2023	25	50	10.2	13.5
16.08.2023	28	56	9.7	13.2
18.08.2023	12	38	8.1	11.3
21.08.2023	26	54	9.1	10.9
Protocol	Gravi metric, CPCB anual	IS5182 PART-23 - 2006	IS5182 PART-2 - 2001	IS5182 PART-6 - 2004

All values are given in $\mu\text{g}/\text{m}^3$

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TEST REPORT

Test Report No.TLC/V/Env/CIL/13/0923

dt.03.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

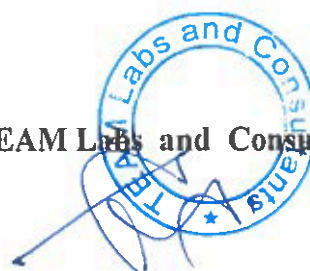
Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	24	52	9.8	11.6
06.09.2023	20	48	8.0	10.8
11.09.2023	22	50	8.3	11.2
13.09.2023	15	38	7.8	10.2
19.09.2023	20	44	8.6	12.2
21.09.2023	25	48	9.5	13.8
25.09.2023	26	54	9.7	14.2
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

All values are given in $\mu\text{g}/\text{m}^3$

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NABL Accredited Laboratory

TEST REPORT

Test Report No.TLC/V/Env/CIL/14/0923

dt.03.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

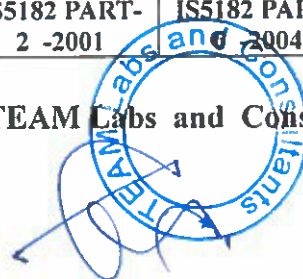
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	25	52	9.5	13.3
06.09.2023	22	46	8.8	12.4
11.09.2023	20	42	7.8	10.6
13.09.2023	16	35	7.2	10.6
19.09.2023	21	45	9.7	12.8
21.09.2023	25	48	9.5	11.6
25.09.2023	27	50	10.1	13.8
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 2 -2004

For TEAM Labs and Consultants



Coromandel International Limited

Post Box No. 1116, Sriharipuram, Malkapuram Post
Visakhapatnam - 530 011, Andhra Pradesh, India
Tel : 91-891-2578400 to 2578416
DID : 91-891-2578417/18/19
Fax : 91-891-2577665/2516164
Website : www.coromandel.biz
CIN : L24120AP1961PLC000892

Date: 28.09.2023

EHS/APPCB/2023-78

To
The Member Secretary,
A.P. Pollution Control Board,
D.No.33-26-14D/2, Near Sunrise Hospital,
Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet,
Vijayawada-520 010

sairakeshni@gmail.com, Nasik

RH951559924IN IVR:827875155992 भारतीय डाक
RL MALKAPURAM S.O <530011>
Counter No:1.29/09/2023.11:29
To:FORM V THE ME,APPCB VIJAYAWADA
PIN:520010, Venkateswarapuram S.O
From:EHS HOD,COROMANDEL INTER
Wt:246gms
Amt:82.00(Cash)
<Track on www.indiapost.gov.in>

Sub: Submission of Environmental Statement in Form-V for the financial year 2022-23 as per the
Environmental Protection Act -1986 reg.

Ref: 1. Consent Order No: APPCB/VSP/65/CFO/HO/1967 - 30/09/2022
2. Consent Order No: 7055/APPCB/ZO-VSP/CFO/VSP/2021 - 01/11/2021
3. Consent Order No: APPCB/VSP/VSP/65/CFO/HO/2020 - 23/12/2020

Dear Sir,


We are enclosing herewith the Environment Statement for the financial year 2022-23 ending with
31st March 2023 in prescribed Form-V with respect to Coromandel International Ltd. along with
relevant annexures.

This is submitted as per the guidelines of Environment protection act -1986

Thanking you

Yours faithfully
For Coromandel International Limited


M. Gnanasundaram
VP & Head - Manufacturing


Encl: As above

Cc: 1. The Joint Chief Environmental Engineer, Zonal Office, APPCB, Visakhapatnam-18
2. The Environmental Engineer, Regional Office, APPCB, Visakhapatnam-18

EHS2-Vizag-Coromandel

From: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel
Sent: 29 September 2023 13:02
To: rovspappcb@gmail.com; rovsp-ee1@appcb.gov.in; zovspappcb
Cc: EHS2-Vizag-Coromandel; Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: Submission of CIL-Form-V (Environmental Statement) for the period of 2022-2023
Attachments: CIL-Vizag-Form -V 2022-2023.pdf

Dear Sir,

Here we are **submitting the Environmental Statement , Form-V** as per Environmental Protection Act, 1986 by **Coromandel International Limited, Visakhapatnam for the period of 2022-2023.**

Same original copy of Form-V along with backup documents we have submitted to Head office, APPCB, Vijayawada through postal on **29.09.2023** and same copy submitted to your regional and zonal office today.

Again, we have submitted the same copy through mail as per your instruction.

Regards,
Nagarjuna P
Manager-Environment
9100443439

SAVE ENVIRONMENT SAVE LIFE


Coromandel
FUTURE POSITIVE
Coromandel International Limited
Sriharipuram, Malkapuram PO
Visakhapatnam-530 011
Andhrapradesh, India.
F: +91 891-2578400
W: www.coromandel.biz
A MURUGAPPA GROUP COMPANY



ANDHRA PRADESH POLLUTION CONTROL BOARD
Dr. YSR Paryavaran Bhavan, APIIC Colony Road,
Gurunanak Colony, Autonagar, Vijayawada- 520007
Phone. No.0866-2463200, Website : <https://pcb.ap.gov.in/>



RED CATEGORY

CONSENT TO OPERATE & AUTHORIZATION ORDER

Consent Order No : APPCB/VSP/65/CFO/HO/1967 -

Dt. 04/08/2023

CONSENT is hereby granted to Operate under section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 and under section 21/22 of Air (Prevention & Control of Pollution) Act 1981 and amendments thereof and Authorisation under Rule 6 of the Hazardous & Other Wastes (Management and Transboundary, Movement) Rules, 2016 and the rules and orders made there under (hereinafter referred to as 'the Acts', 'the Rules') to:

M/s. Coromandel International Limited,

(After Expansion)

Sriharipuram, Malkapuram (PO)

Visakhapatnam - 530 011

Email : nagarajud@coromandel.murugappa.com ; mishraVK@coromandel.murugappa.com ; nagarjunap@coromandel.murugappa.com

(Hereinafter referred to as 'the Applicant') authorizing to operate the industrial plant to discharge the effluents from the outlets and the quantity of emissions per hour from the chimneys as detailed below:

i) Out lets for discharge of effluents:

Outlet No.	Outlet Description	Max Daily Discharge (KLD)	Point of Disposal
1.	Process and Washings	1,800	<ul style="list-style-type: none"> Process effluents shall be recycled / reused within factory premises to achieve Zero discharge except during rainy season In case of low load plant operations and during rainy season, the quantity of effluent generated from Phosphoric acid post enhancement is 1800 KLD which shall be treated in the existing ETP plant and discharged along with once through cooling blow down through Meghadrigedda surplus course that joins Bay of Bengal
2.	Cooling tower blow down & Desalination Plant RO Rejects	91,600	Into Meghadrigedda surplus course that joins Bay of Bengal
3.	Domestic	530	The industry treat the waste water in the STP, after treatment in the STP the treated waste water shall be Recycled / reused within the factory premises.
	Total	93,930	

ii) Emissions from chimneys:

Chimney No.	Description of Chimney	Quantity of Emissions in m ³ /hr. at peak flow
1.	Attached to 1700 TPD Sulphuric Acid Plant	1,15,357Nm ³ /hr
2.	Attached to 400 TPD* Sulphuric Acid Plant	33,333 Nm ³ /hr
3.	Attached to 700 TPD Phosphoric Acid Plant	1,82,000 Nm ³ /hr
4.	Attached to 40 TPH Rock Grinding unit	15,000 m ³ /hr
5.	Attached to 20 TPH Rock Grinding unit	15,000 m ³ /hr
6.	Attached to Complex A-Train	2,60,700 Nm ³ /hr
7.	Attached to Complex B-Train	2,60,700 Nm ³ /hr
8.	Attached to Complex C-Train	2,67,850 Nm ³ /hr
9.	Common stack attached to Drier (2 Nos.) & process coolers (2 Nos) of 300 TPD customized fertilizer	---
10.	Attached to 1.5 TPH Oil Fired Boiler	12,000 Nm ³ /hr
11.	Attached to 4 MW D.G. Set	--
12.	Attached to 4 MW D.G. Set	--
13.	Attached to 900 TPD Phosphoric Acid Plant	35,000 Nm ³ /Hr
14.	Attached to 75 TPH Rock Phosphate grinding Unit	30,000 Nm ³ /Hr
15.	Attached to 40 TPH Coal Fired Boiler (6.7 MW) & Back pressure Turbine 5 MW	67,200 Nm ³ /Hr
16.	Attached to 910 KVA D.G. Set	--
17.	Attached to 2000 TPD SulphuricAcidPlant-3	1,61,000 Nm ³ /Hr
18.	Attached to 500 KVA D.G. Set	---
19.	Attached to 750 KVA D.G. Set	---

iii) HAZARDOUS WASTE AUTHORISATION (FORM – II) [See Rule 6 (2)]:

M/s. Coromandel International Limited, Sriharipuram, Malkapuram, Visakhapatnam District, is hereby granted an authorization to operate a facility for collection, reception, storage, treatment, transport and disposal of Hazardous Wastes namely:

● HAZARDOUS WASTE WITH DISPOSAL OPTION

S.No	Name of the waste	Stream	Quantity	Disposal Option
1.	Acid residues (Tank bottom sludge)	34.2 of Schedule-I	60 TPA	Recycle back into phosphoric acid reactor
2.	Sulphur muck (Sulphur sludge)	Class B (Sl.No.37) of Schedule-II	1500 TPA	Recycle back into the process as a filler material in the granulation plant
3.	Spent catalyst	18.1 of Schedule-I	115 TPA	Shall be routed through APEMC, to Authorised Reprocessors / Recyclers / TSDF, Parawada / Pre – processors
4.	Used lubricating oil/drained oil	5.1 of Schedule - I	60 KLPA	Shall be routed through APEMC to Authorised Reprocessors / Recyclers

5.	Detoxified Containers and container liners	33.1 of Schedule-I	15000 Nos/Anum	Shall be routed through APEMC to TSDF for detoxification and disposal / outside agencies / return to dealers, after detoxification
6.	LSHS Sludge	34.2 of Schedule-I	15TPA	Shall be routed through APEMC to cement industries for co-processing / TSDF, Parawada / Pre – processors
7.	Scrubbing sludge	37.1 of Schedule-I	450 TPA	Reuse back in the process
8.	ETP sludge	35.3 of Schedule –I	1200 TPA	Recycle back into process
9.	Off specified , expired chemicals & lab chemicals etc.	28.4 of Schedule –I	50 TPA	Shall be routed through M/s. APEMCL to TSDF Parawada for incineration /Landfill /Authorised Cement Industries for Co-Processing
10.	Glass wool	33.2 of Schedule –I	8 TPA	Shall be routed through M/s. APEMCL to TSDF Parawada for Landfill
11.	Insulation puf	33.2 of Schedule –I	8 TPA	Shall be routed through M/s. APEMCL to TSDF Parawada for Incineration

● OTHER THAN HAZARDOUS WASTE WITH DISPOSAL OPTION

S.No	Name of the waste	Quantity	Disposal Option
1.	e-waste	25 TPA	Authorised e-waste recyclers / dismantlers
2.	Fly ash	25 TPD	To cement industries / brick manufacturing units

The Consent Order No. APPCB/VSP/65/CFO/HO/1967 dated 30.09.2022 and amendment of CTO dt. 01.02.2023 valid upto 31.08.2027 stands cancelled from date of issue of this order. This consent order is valid to manufacture the following products along with quantities indicated only:

S.No.	Products	Quantity
1	Complex Fertilisers	4210 TPD*
2	Customized Fertilizer plant (Customized Fertilizersor Organic Fertilizersor Bio Stimulantsor Soil conditioners or Mixture of fertilizers) (or)	
3	Water soluble fertilizer plant	
	100% Water soluble complex fertilizers/ 100% water soluble mixture of fertilizer (or)	
	Micronutrient mixtures (powder/ liquid/ granular) (or)	
	Chelated Micronutrients (powder/ liquid/ granular) (or)	

	Urea Phosphate (or)	
	Micronized / Nano Sulphur	
4	H ₂ SO ₄	4100 TPD (SAP1 – 1700 TPD & SAP2-400 TPD, SAP3- 2000 TPD)
5	Bentonite Sulfur /Bentonite Sulphur with micronutrients	200 TPD
6	Phosphoric Acid	1600 TPD
7	Fertilizer Technology Centre (<i>Granulation</i>) – <i>Straight or Complex or Fortified or Organic or Bio stimulants or Soil conditioner or Mixture of fertilizers</i>	19 TPD
8	Fertilizer technology centre - Phosphoric acid	0.83 TPD
9	Sulpho Zinc & Sulpho Boron	50 TPD
10	Liquid Fertilizer plant – <i>Liquid Suspension or Liquid solution of primary nutrients (N,P,K)/Micronutrients/Secondary nutrients / Organics/Bio Stimulants/Nano fertilizers</i>	6.0 TPD
11	Desalination Plant	6 MLD
By-Products:		
12	Gypsum	8000 TPD
13	Hydroflorosilicic Acid	40TPD
Bulk storage facilities at site		
14	Ammonia (1x5000 MT + 1x7500 MT)	12500 MT
15	Sulphuric acid (1X4000 MT + 3X 2500MT) + 4x5000MT + 2 X 12500 MT	56500 MT
16	Phosphoric acid (P ₂ O ₅)	32890 m ³ (2 X 310 m ³ + 7 X 610 m ³ + 7 X 1000 m ³ + 3 X 3000 m ³ + Wharf - 2 X 6000 m ³ = 12000 m ³)
17	Molten sulphur **	18000 MT (2 X 7500 MT these two storage tanks located at wharf area + 2 X 1500 MT)
18	LSHS	1193 KL (2 X 500 KL + 1 X 160 KL + 33 KL)
19	Diesel	96 KL (2 X 10 KL + 1 X 16 KL + 60 KL)

20	Kerosene	1 X 50 KL
21	LPG	870 Kg

*** The industry shall produce either individual fertilizers or combination of the fertilizers at any point of time without increase in the total permitted capacity of fertilisers 4210 TPD.**

**** Molten sulphur capacity 2 X 7500 MT as per CFE dt.18.11.2021.**

Note: The industry has dismantled Petrol tank and same was deleted.

This order is subject to the provisions of 'the Acts' and the Rules' and orders made thereunder and further subject to the terms and conditions incorporated in the schedule A, B & C enclosed to this order.

This combined order of consent to operate & Hazardous Waste Authorisation shall be valid for a period ending with the **31st day of August, 2027.**

B SREEDHAR IAS, MS(BS), O/o MEMBER SECRETARY-APPCB

**To
M/s. Coromandel International Limited,
Sriharipuram, Malkapuram (PO)
Visakhapatnam - 530 011**

Copy to:

1. The JCEE, Zonal Office, **Visakhapatnam** for information and necessary action.
2. The EE, Regional Office, **Visakhapatnam** for information.

SCHEDULE – A

1. Any up-set condition in any industrial plant / activity of the industry, which result in, increased effluent / emission discharge and/ or violation of standards stipulated in this order shall be informed to this Board, under intimation to the Collector and District Magistrate and take immediate action to bring down the discharge / emission below the limits.
2. The industry should carryout analysis of waste water discharges or emissions through chimneys for the parameters mentioned in this order on quarterly basis and submit to the Board.
3. Notwithstanding anything contained in this consent order, the Board hereby reserves the right and powers to review / revoke any and/or all the conditions imposed herein above and to make such variations as deemed fit for the purpose of the Acts by the Board.
4. The industry shall ensure that there shall not be any change in the process technology, source & composition of raw materials and scope of working without prior approval from the Board.

5. The applicant shall submit Environment statement in Form V before 30th September every year as per Rule No.14 of E(P) Rules, 1986 & amendments thereof.
6. The applicant should make applications through Online for renewal of Consent (under Water and Air Acts) and Authorization under HWM Rules at least 120 days before the date of expiry of this order, along with prescribed fee under Water and Air Acts and detailed compliance of CFO conditions for obtaining Consent & HW Authorization of the Board.
7. The industry should immediately submit the revised application for consent to this Board in the event of any change in the raw material used, processes employed, quantity of trade effluents & quantity of emissions. Any change in the management shall be informed to the Board. The person authorized should not let out the premises / lend / sell / transfer their industrial premises without obtaining prior permission of the State Pollution Control Board.
8. Any person aggrieved by an order made by the State Board under Section 25, Section 26, Section 27 of Water Act, 1974 or Section 21 of Air Act, 1981 may within thirty days from the date on which the order is communicated to him, prefer an appeal as per Andhra Pradesh Water Rules, 1976 and Air Rules 1982, to Appellate authority constituted under Section 28 of the Water(Prevention and Control of Pollution) Act, 1974 and Section 31 of the Air(Prevention and Control of Pollution) Act, 1981.
9. The industry shall be liable to pay Environmental Compensation / Other Environmental Taxes, if any environmental damage caused to the surroundings, as fixed by the Collector & District Magistrate or any other competent authority as per the Rules in vogue.
10. The industry may explore the possibility of tapping the solar energy for their energy requirements.
11. The industry should educate the workers and nearby public of possible accidents and remedial measures.

SCHEDULE - B

The issue CTO &HWA (Expansion) to the industry was placed in the Consent Management Committee meeting held on 25.07.2023. The industry shall comply with the following conditions:

1. The industry shall provide permanent pipe line arrangement for lifting leachate generated from ETP sludge storage shed to the ETP for treatment.
2. The industry shall maintain good housekeeping within the factory premises.
3. The industry shall upgrade STP to treat the domestic wastewater of 530 KLD, until then the industry shall restrict the wastewater generation to 300 KLD, as the industry is having STP of capacity 300 KLD only to treat the wastewater.
4. The industry shall furnish emission loads of SO₂ & acid mist for all Sulphuric acid

plants.

5. The industry shall develop balance greenbelt with native species of the total area within 3 months to achieve 33% of greenbelt.

WATER POLLUTION:

6. The effluent discharged shall not contain constituents in excess of the tolerance limits mentioned below:

Outlet	Parameter	Limiting Standards
1 & 2	pH	6.5 – 8.5
	Ammonical Nitrogen	50 mg/l
	Free Ammonical Nitrogen	4.0 mg/l
	Total Kjeldahl Nitrogen	75 mg/l
	Nitrate Nitrogen	20 mg/l
	Cyanide as CN	0.1 mg/l
	Vanadium as V	0.2 mg/l
	Arsenic as As	0.2 mg/l
	Phosphate as P	5 mg/l
	Suspended solids	100 mg/l
	Oil and Grease	10 mg/l
	Fluoride as F	10 mg/l
	Hexavalent Chromium as Cr	0.1 mg/l
	Total Chromium as Cr	2.0 mg/l
	BOD	30 mg/l
	COD	250 mg/l
	Temp :- Not more than 5 °C higher than intake water.	
3	pH	6.50 – 8.50
	Oil and Grease	10 mg/l
	Biochemical Oxygen Demand	30 mg/l
	Total Suspended Solids	<100 mg/l
	Fecal Coliform (FC) (Most Probable Number per 100 milliliter, MPN/100ml)	<1000 MPN/100 ml

Note: (i) Chromium salt shall not be used in cooling tower as algicide. (ii) The effluent shall be analysed for Vanadium and Arsenic once in a year and analysis report shall be submitted to the concerned State Pollution Control Board / Pollution Control Committee.

7. The source of water is GVMC, Sea drawl & Desalination Plant. The following is the permitted water consumption:

S.NO.	Purpose	Quantity (KLD)
1	Process & Washes	Total – 16600 (Existing 10,350 + SAP3-1800 + PAP-2400 KLD) + Expansion= 2050 (SAP - 650+ PAP-1400)
2	Industrial Cooling (Make up) – Fresh Water (from GVMC or from De-salination plant or combination of both)	
3	Boiler feed	

4	Domestic & Other	
	Subtotal	16600
5	Sea water (Industrial cooling & Desalination Plant of 6 MLD capacity)	84600+16000 = 100600
	Grand Total (kl)	1,17,200

8. The effluent discharged shall comply with the tolerance limits mentioned as per MoEF notification dated 29.12.2017 prescribed for Fertilizer industry.
9. The industry shall maintain the following:
 - a. Electro Magnetic flow meters with totalisers for water used and effluent generation for different purposes as mentioned in this CTO order.
 - b. Proper records for effluent generation, treated, reused and discharged into meghadrigedda.
 - c. Water flow meter at Leachate Collection pit provided for Gypsum storage yard to quantify the effluents recycled and shall maintain registers.
10. The effluents shall be stored in above ground level collection tanks separately.
11. Effluents shall not be discharged onland or any water bodies or aquifers or outside under any circumstances. Floor washings shall be admitted into effluent collection system only and shall not be allowed to find their way into storm water drains or open areas. The industry shall maintain separate storm water drains and provide rain water harvesting structure.
12. Container, Container liners shall be detoxified at the specified covered platform with dyke walls and the wash wastewater shall be routed to low TDS collection tank.
13. The industry shall comply with the standard for fluoride (1.5 mg/l) in piezo well water samples and shall not exceed the standard
14. The industry shall submit details of maintaining temperature difference (DT) of 5⁰C before disposal to Sea via Megadri gedda every month.
15. The industry shall provide online effluent monitoring system for pH, BOD, COD, TSS, Phosphates, Fluorides, temperature with online connectivity to CPCB / APPCB as per CPCB directions dated 05.02.2014 and 02.03.2015.
16. The industry shall ensure that no Fluoride contamination in two piezo wells and monitor piezo wells on monthly basis. The industry shall submit trends every 3 months to RO, Visakhapatnam.

AIR POLLUTION:

17. The emissions shall not contain constituents in excess of the prescribed limits mentioned below.

Chimney No.	Parameter	Emission Standards
	Acid mist	20 mg/Nm ³

1	SO ₂ SO ₃	1 Kg/MT of product 0.35 Kg/MT of product
2	Acid mist SO ₂ SO ₃	20 mg/Nm ³ 0.65 Kg/MT of product 0.35 Kg/MT of product
3 & 13	Total Fluoride PM	20 mg/Nm ³ 50 mg/Nm ³
4,5 & 14	PM	50 mg/Nm ³
6 - 8	Particulate Matter Fluorine Ammonia	45 mg/Nm ³ 4 mg/Nm ³ 165 mg/Nm ³
9	Particulate Matter	50.00 mg/Nm ³
11, 12	Particulate Matter	115.00 mg/Nm ³
15	PM	50.00 mg/Nm ³
17	Acid mist SO ₂ SO ₃	20 mg/Nm ³ 1 Kg/MT of product 0.35 Kg/MT of product

18.The industry shall comply with emission limits for DG sets upto 800 KW as per the Notification G.S.R.520 (E), dated 01.07.2003 under the Environment (Protection) Amendment Rules, 2003 and G.S.R.448(E), dated 12.07.2004 under the Environment (Protection) Second Amendment Rules, 2004. In case of DG sets more than 800 KW shall comply with emission limits as per the Notification G.S.R.489 (E), dated 09.07.2002 at serial no.96, under the Environment (Protection) Act, 1986.

19.The industry shall comply with ambient air quality standards of PM10 (Particulate Matter size less than 10 microns) - 100 micro gram/ m³; PM2.5 (Particulate Matter size less than 2.5 microns) - 60 micro gram/ m³; SO₂ - 80 micro gram/ m³; NO_x - 80 micro gram/m³, outside the factory premises at the periphery of the industry.

Standards for other parameters as mentioned in the National Ambient Air Quality Standards CPCB Notification No.B-29016/20/90/PCI-I, dated 18.11.2009 shall be complied. Following standards prescribed for noise shall be complied.

Noise Levels: Day time - (6 AM to 10 PM) - 75 dB (A)

Night time - (10 PM to 6 AM) - 70 dB (A).

20.The industry shall provide a sampling port with removable dummy of not less than 15 cm diameter in the stack at a distance of 8 times the diameter of the stack from the nearest constraint such as bends etc. A platform with suitable ladder shall be provided below 1 meter of sampling port to accommodate three persons with instruments. A 15 AMP 250 V plug point shall be provided on the platform.

21.The industry shall properly maintain 400 MTPD evaporation system for Phosphoric

Acid including Fluorine recovery system as stipulated in the EC order dt.14.07.2017. The industry shall recover fluorine from phosphoric acid process to maximum extent possible.

- 22.The industry shall operate bulk handling mechanism like telescopic chute system at all raw material storage ware houses and ensure that there shall not be fugitive emissions from the raw material handling warehouses. The industry shall cover all directions of the feeding area of rock phosphate and rectify the fugitive leakages, if any.
- 23.The industry shall maintain online stack analyzers for all the stacks of complex fertilizer plant for monitoring ammonia, PM and fluorine and one analyser for monitoring fluorine in Phosphoric Acid Plant with online connectivity to CPCB/APPCB as per CPCB directions dated 05.02.2014 and 02.03.2015. The industry shall maintain the online analyzer facility for monitoring of Fluoride in the Phosphoric Acid plant immediately. The data shall be connected to the CPCB / APPCB servers.
- 24.The industry shall maintain 3 online CAAQM Stations within the plant as per the specifications of CPCB for online monitoring of SPM, RSPM, SO₂, NO_x & Ammonia with networking facility to Head Office, APPCB.
- 25.The industry shall maintain automatic caustic lye solution dosage for the scrubbers provided in the Sulphuric acid plant so as to maintain pH below 8 in acidic scrubbers provided in the plant. The industry shall maintain online pH measuring facility with auto recording system to the alkali scrubbers provided to treat the sulfuric acid plant emissions.

GENERAL:

- 26.The industry shall not manufacture new products and not exceed the consented capacity without CTE/CTO of the Board.
- 27.The industry shall evaporate (concentrate) Phosphoric acid to reduce Fluorine so as to reduce fluorine input to complex fertilizer plant;
- 28.Housekeeping shall be improved through closed transportation systems. Road sweeping machine shall be deployed for control of dust near Gypsum yard.
- 29.The industry shall maintain Hazardous waste storage area with concrete platform and leachate collection pit for storage of ETP sludge.
- 30.The industry shall comply with the guidelines issued by the CPCB regarding storage & handling of gypsum.
- 31.The industry shall not start-up the Sulfuric acid plants during night time i.e. between 6.00 PM to 8: 00 AM.
- 32.The industry shall operate bag filters at hopper i.e. rock phosphate unloading point at wharf to arrest the fugitive emissions.
- 33.The industry shall maintain the internal roads within the factory premises.
- 34.The industry shall update the Disaster Management Plan regularly.

- 35.The industry shall monitor work place online ammonia levels with online sensors in complex fertiliser plant and maintain records.
- 36.The industry shall store fresh gypsum on HDPE lining at the wagon loading area.
- 37.The industry shall submit concentration levels of Ammonia monitored by industry through sensors every month.
- 38.The industry shall ensure that there are no leaks in any unit operations and unit processes.
- 39.The industry shall take proper measures to ensure the trucks with proper leak proof bodies are used for transportation of gypsum from the industry.
- 40.The industry shall maintain the following records and the same shall be made available to the inspecting officers of the Board:
 - a. Daily production details.
 - b. Quantity of Effluents generated, treated, recycled.
 - c. Log Books for pollution control systems.
 - d. Characteristics of effluents and emissions.
 - e. Hazardous/non hazardous solid waste generated and disposed.
 - f. Inspection book.
 - g. Manifest copies of effluents / hazardous waste.
- 41.The industry shall comply with the conditions stipulated in the CTE order No.65/APPCB/CFE/RO-VSP/HO/2012, dated 08.02.2020, 24.08.2022, 27.07.2022 & 22.11.2022
- 42.The industry shall update the information in OCEMS - Industry Information Data Entry Software for Compliance Reporting Protocol in PART-II (Sections F & G) Every Quarter on 1st January, 1st April, 1st July and 1st October through this software system.
- 43.The industry shall maintain valid PLI policy which includes Environmental Relief Fund (ERF) and submit copy to RO, Visakhapatnam on yearly base.
- 44.The industry shall install digital display boards at publicly visible places at the main gate indicating the products manufactured Vs permitted quantities, Treated effluent concentrations Vs discharge standards, Stack emission & AAQ concentrations Vs standards, hazardous waste generation, disposed, stock Vs permitted quantities and validity of CTO; and exhibit the CTO order at a prominent place in the factory premises, as per Hon'ble Supreme Court order.
- 45.The industry shall submit Half yearly compliance reports to all the stipulated conditions in Environmental Clearance (EC), Consent to Establishment (CTE) and Consent to Operation (CTO) through website i.e., <https://pcb.ap.gov.in> by 1st of January and 1st July of every year. The first half yearly compliance reports shall be furnished by the industry and second half yearly compliance reports shall be the

audited through MoEF&CC recognized and National Accreditation Board for Laboratory Testing (NABL) accredited third party.

46.Any other directions / circulars / notices / guidelines issued by CPCB, MoEF&CC and APPCB shall be followed from time to time.

47.The conditions are stipulated without prejudice to the rights and contentions of this Board in any Hon'ble Court of Law.

Special conditions:

48.The industry shall submit a copy of the NOC issued by the Andhra Pradesh State Disaster Response and Fire Service Dept., (APSDRFSD) at concerned Regional Office, APPCB.

49.The industry shall prepare a safety report and carry out an independent safety audit report of the respective industrial activities including chemical storages / isolated storages by an expert not associated with such industrial activity as required under Rule 10 of MSIHC Rules, 1989 and get it approved by the Factories Dept., and submit the compliance along with copy of the safety report, safety audit report and safety certificate at concerned Regional Office, APPCB.

50.The industry shall identify major accident hazard chemicals & list out the hazardous chemicals endangered to human health & environment, and the details shall be furnished to the Factories Department and the Regional Office, APPCB time to time duly certifying the same by the industry. Further, the industry shall extend training to the working personnel while handling hazardous chemicals for the prevention of accidents and necessary antidotes to ensure safety, as per the MSIHC Rules, 1989.

51.The industry shall carryout calibration of safety equipment and leak detection systems at regular intervals and shall certify the same with the Factories Department. That certified copy shall be submitted to the APPCB, Regional Office. The industry shall install fluorescent Wind Vane at the highest point in the industry premises.

52.The industry shall inventory the hazardous wastes and its quantities stored within the industry premises as per the Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016 (HOWM Rules, 2016) and shall furnish the details to Regional Office, APPCB on a monthly basis duly certifying the same by the industry.

53.The industry shall conduct Risk studies to be undertaken clearly describing impact within the industry premises and outside the industry premises and emergency response system.

54.The industry shall inventorize the storage quantities of hazardous chemicals (raw materials), products, as per the hazard nature of reactivity / toxicity / flammability / explosive stored/handling in the premises as defined in the Management of Storage,

Import of Hazardous Chemicals (MSIHC) Rules, 1989 and the details shall be furnished to the Factories Department and to the Regional Office, APPCB on monthly basis duly certifying the same.

SCHEDULE - C

[see rule 6(2)]

**[CONDITIONS OF AUTHORISATION FOR OCCUPIER OR OPERATOR
HANDLING HAZARDOUS WASTES]**

1. The authorised person shall comply with the provisions of the Environment (Protection) Act, 1986, and the rules made there under.
2. The authorisation shall be produced for inspection at the request of an officer authorised by the State Pollution Control Board.
3. The person authorised shall not rent, lend, sell, transfer or otherwise transport the hazardous and other wastes except what is permitted through this authorisation.
4. Any unauthorised change in personnel, equipment or working conditions as mentioned in the application by the person authorised shall constitute a breach of his authorisation.
5. The person authorised shall implement Emergency Response Procedure (ERP) for which this authorisation is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time;
6. The person authorised shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorised person to take prior permission of the State Pollution Control Board to close down the facility.
8. The industry shall enter an agreement with the Cement industries for disposal of incinerable waste or shall dispose to Alternative Fuel Raw material facility (AFRF) OR to TSDF for co-incineration.
9. The industry shall comply with the provisions of HWM Rules, 2016 in terms of interstate transport of Hazardous Waste and manifest document prescribed Under Rule 18 and 19 of the HWM Rules, 2016.
10. The industry shall not store hazardous waste for more than 90 days as per the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.
11. The industry shall store Used / Waste Oil and Used Lead Acid Batteries in a secured way in their premises till its disposal to the manufacturers / dealers on buyback basis.
12. The industry shall transport the hazardous waste to cement industries only through vehicle fitted with GPS tracking system.
13. The industry shall maintain 7 copy manifest system for transportation of waste

generated and a copy shall be submitted to concerned Regional Office of APPCB. The driver who transports Hazardous Waste should be well acquainted about the procedure to be followed in case of an emergency during transit. The transporter should carry a Transport Emergency (TREM) Card.

14.The industry shall maintain proper records for Hazardous and Other Wastes stated in Authorisation in Form-3 i.e., quantity of Incinerable waste, land disposal waste, recyclable waste etc., and file annual returns in Form-4 as per Rule 20 (2) of the Hazardous and Other Wastes (Management & Transboundary Movement) Rules, 2016.

15.The industry shall route the all the hazardous wastes through M/s. APEMC.

B SREEDHAR IAS, MS(BS), O/o MEMBER SECRETARY-APPCB

**To
M/s. Coromandel International Limited,
Post Box No. 1116,
Sriharipuram, Malkapuram(PO)
Visakhapatnam -530 011**

EHS/APPCB/2024-030

Dated:22/04/2024

To
The Environmental Engineer,
Regional Office, 3rd Floor
A.P. Pollution Control Board,
Visakhapatnam -18

Dear Sir,

Sub: Submission of Public Liability Act copy (Policy No. 96000036243300000001).

Ref: i) CFO Order No: APPCB/VSP/65/CFO/HO/1967 - 04/08/2023
ii) CFO Order No: 7055/APPCB/ZO-VSP/CFO/VSP/2021-01/11/2021
iii) CFO Order No: APPCB/VSP/VSP/65/HO/CFO/2020 - 23/12/2020

With reference to above as per the general condition point No 43 specified in CFO Order No: APPCB/VSP/65/CFO/HO/1967 - 04/08/2023 and Schedule – A in condition no : 03 in CFO Order No: 7055/APPCB/ZO-VSP/CFO/VSP/2021-01/11/2021 & CFO Order No: APPCB/VSP/VSP/65/HO/CFO/2020 - 23/12/2020, we are herewith submitting the Public Liability Act Policy copy for the period of

Policy Period:

From : 01/04/2024
To Midnight of : 31/03/2025

This is for your kind information & Records
Thanking you,

Yours Truly
For Coromandel International Limited



Gnanasundaram M
Vice President & Head Manufacturing.



NAG/DNR

Encloser: PLA copy



POLICY SCHEDULE FOR PUBLIC LIABILITY (Act Only) INSURANCE

UIN NUMBER - IRDAN190P0076100001

Insured's Name	:	M/S.COROMANDEL INTERNATIONAL LIMITED			
		Insured's Details		Issuing Office Details	
Customer ID	:	PO59235971	Office Code	:	HYDERABAD LCBO 960000 (960000)
Address	:	COROMANDEL HOUSE, D.NO:1-2-10,SARDAR PATEL ROAD,SECUNDERABAD. SECUNDERABAD ,TELANGANA, 500003	Address	:	LARGE CORPORATE AND BROKERS OFFICE, 7C,7TH FLOOR, SURYA TOWERS, S.P.ROAD, SECUNDERABAD ,500003
Phone No	:		Phone No	:	4027810302
E-mail/Fax	:	MittalA@coromandel.murugappa.com, /	E-mail/Fax	:	nia.960000@newindia.co.in /
PAN No	:	AAACC7852K	S.Tax Regn. No	:	AAACN4165CST178
GSTIN/UIN	:	36AAACC7852K2ZD / NA	GSTIN	:	36AAACN4165C3ZQ
	:		SAC	:	997139 (Other non-life insurance services excl RI)

Policy Details					
Policy Number	:	96000036243300000001	Business Source Code	:	
Period of Insurance	:	From: 01/04/2024 12:00:01 AM To: 31/03/2025 11:59:59 PM	Dev.Off. level/Broker/Corp. Agent/Web Aggregator/CPSC User	:	Marsh India Insurance Brokers Pvt. Ltd. - (2D10672900) Marsh_India_121400 - (2D10685525),
Date of Proposal	:	01-Apr-24	Agent/Bancassurance/S pecified Person	:	
Prev. Policy no.	:	62030036233300000001	Phone No	:	7045922442, 8657561533 / NA
Client Type	:	Corporate	E-mail/Fax	:	Kamal.Pherwani@marsh.com, Pravin.chandvekar@marsh.com / /

Premium(₹)	ERF Premium(₹)	GST(₹)	Total (₹)	Total (₹ in words)	Receipt No. & Date
230765	230765	41,538	5,03,068	RUPEES FIVE LAC THREE THOUSAND SIXTY-EIGHT ONLY	9600008124000000002 4 - 02/04/24

Details of risk covered under current year policy:

Retroactive Date	Paid Up Capital	No Of Locations Involved	AOA	AOA:AOY	AOY	Annual Turnover - Previous Year	Annual Turnover - Proposed Year	Deductible S	No of workmen	No of Other Employee
01/04/2012	<= 15 Crore	19	50000000	1:3	150000000	150000000000	250000000000	14000	3000	

Retroactive Dates

Retroactive Date Details	Date	Paid Up Capital	No Of Locations Involved	AOA	AOA:AOY	AOY	Annual Turnover - Previous Year	Annual Turnover - Proposed Year	Deductibles	No of workmen	No of Other Employee
RETROACTIVE DATE 1	01/04/2012	<=15Crore	19	50000000	1.3	150000000	150000000000	250000000000	14000	3000	

RETRO-DATE IS SUBJECT TO LESSER OF LIMITS - NARROWER OF COVER.

Extensions under the Policy

Name of the Extension	Sub Limit of the Extension	Deductibles of the Extension
-----------------------	----------------------------	------------------------------

Signature Not Verified
Digitally signed by DHIRAJ KUMAR
Date: 2024.04.02 13:41:29 +05'30'IST



Special Conditions	AS PER POLICY-19 NO.OF LOCATIONS AS PER LIST ATTACHED HEREWITH AS PER PUBLIC LIABILITY ACT POLICY Absolute exclusion for losses directly or indirectly arising out of contributed to by or resulting from Coronavirus (Covid 19 and /or nCov 2019) or any mutations or variations thereof.	
Special Exclusions	NA	
Special Excess/Deductible	0	
Retroactive Dates		Date
Retroactive date		01/04/2012

The Policy shall be subject to PUBLIC LIABILITY (Act Only) INSURANCE Policy clauses attached herewith.

Clauses	Description	
Premium and GST Details		
	Rate of Tax	Amount in INR
Premium		₹ 4,61,530
SGST	9	20769
CGST	9	20769
IGST	0	0

In witness whereof the undersigned being duly authorised by the Insurers and on behalf of the Insurers has (have) hereunder set his (their) hand(s) on this 02nd day of April,2024.

For and on behalf of
The New India Assurance Company Limited

Date of Issue: 02/04/2024

Duly Constituted Attorney(s)

Stamp Duty under the Policy is ₹1

Mudrank _____ Dt. _____ consolidated Stamp Fees Paid by Pay Order Number _____ vide receipt number _____ dt. _____.

We hereby declare that though our aggregate turnover in any preceding financial year from 2017-18 onwards is more than the aggregate turnover notified under sub-rule (4) of rule 48, we are not required to prepare an invoice in terms of the provisions of the said sub-rule.

Tax Invoice No : 96000024E0000029

IRDA Registration Number: 190
NIA PAN NUMBER: AAACN4165C

दिन्यू इंडिया एश्योरन्स कंपनी लिमिटेड

बृहत्कॉर्पोरेट एवम ब्रोकर्स कार्यालय - ९६००००

7th मंजिल, सूर्या टावर्स, एसडी रोड, सिकंदराबाद

५००००३, तेलंगाना

दूरभाष - ०४०-२७८१०३००, २७८१०३०२

फैक्स - ०४०-६६२६४४४३

हिन्दी हमारी राष्ट्रभाषा है, सारे देश की आशा है।



Leadership and Beyond

The New India Assurance Co Ltd

Large Corporate and Brokers Office – 960000

7th Floor , C Block, Surya Towers, SP Road,

Secunderabad – 500 003, Telangana

Telephone – 040 27810300, 27810302

Fax – 040 66264443

India's Premier General Insurance Company

Schedule attached to and forming part of policy no. 96000036243300000001

List of 19 Locations attached and forming part of Public Liability(Act only) Policy no:
96000036243300000001, Policy period : 01-04-2024 to 31-03-2025.

With reference to the captioned subject following are the list of Locations

1. M/S Coromandel International Ltd-VISAKHAPATNAM
2. M/S Coromandel International Ltd-KAKINADA
3. M/S Coromandel International Ltd-ENNORE
4. M/S Coromandel International Ltd-RANIPET
5. M/S Coromandel International Ltd-THANE
6. M/S Coromandel International Ltd-NAVI MUMBAI.
7. M/S Coromandel International Ltd-UNIT 1, JAMMU
8. M/S Coromandel International Ltd-UNIT2, BARIBRAHMANA, JAMMU
9. M/S Coromandel International Ltd, UMBERGAON
10. M/S Coromandel International Ltd, GIDC, NANDESARI
11. M/S Coromandel International Ltd, PALI
12. M/S Coromandel International Ltd, RAIBARELI
13. M/S Coromandel International Ltd, MADRI-UDAIPUR
14. M/S Coromandel International Ltd, JAGPURA-KOTA
15. M/S Coromandel International Ltd, MUNIRABAD
16. M/S Coromandel International Ltd, ANKHALESHWAR
17. M/S Coromandel International Ltd, DAHEJ
18. M/S Coromandel International Ltd –NIMRANI
19. M/S Coromandel International Ltd Super Phosphate factory, ENNORE

For The New India Assurance Company

Authorised Signatory

EHS2-Vizag-Coromandel

From: Nageswara Rao G-AsstMgr-EHS-Vizag-Coromandel
Sent: 24 April 2024 16:10
To: rovspappcb@gmail.com
Cc: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel; EHS2-Vizag-Coromandel; Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: CIL-Vizag submission of special conditions reports
Attachments: Submission of AAQMS online data for the six months as per EC complex PAP.crdownload; Submission of SAP -3 & Desalination plant Fire NOC.crdownload; Submission of monthly Piezo Well analysis report as per EC complex PAP.crdownload; Submission of Piezo Well analysis report as per CFO.crdownload; Public Liability Policy (PLI) April - 2024-2025 (Policy No. 96000036243300000001).pdf

Dear Sir,

Here we are submitting the following Special Conditions reports for your consideration.

1. Public Liability Act copy (Policy No. 96000036243300000001).
2. Fire NOC
3. Piezo well water analyses Quarterly reports as per CFO
4. Piezo well water analyses monthly reports as per EC
5. AAQMS online data reports as per EC

The same original copy along with backup documents we submitted on **23.04.2024** to your regional office. Again, we have submitted the same copy through mail as per your instruction.

Thanks & Regards,
Nageswara Rao G



Coromandel International Limited

Sriharipuram, Malkapuram PO

Visakhapatnam-530 011

Andhrapradesh, India.

F: +91 891-2578400

W: www.coromandel.biz

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