

015/Mar/2023-01

01/Mar/2023

To
The Director,
Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
2nd and 3rd Floor, Hindustan Export Promotion Council,
34, Cathedral Road,
Bangalore, Chennai-600094

Dear Sir,

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

Ref: F. No. J (2011)/S&E(2023-14-40) dated 03.06.2022

Please find the attached half yearly compliance report of Environment Clearance issued by MOEF
for manufacturing of Customised Fertilizer Plant of two streams of 300 MT/DO each.

Period of submission : Oct 22 to Mar 23

Site : Coromandel International Ltd. Sec. Vandalupetam

Thanking You,

For Coromandel International Limited


M. Shanmugasundaram
VF - Head Manufacturing


The Member Secretary

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

EHS2-Vizag-Coromandel

From: Nagajana P-Jyoti-E-6-Vizag-Coromandel
Sent: 01 June 2023, 17:30
To: esenpland@p@gen.in; nripappu@gmail.com; nripappu@
Co: EHS2-Vizag-Coromandel; Subhroto Mondal-Jyoti-E6-Coromandel-Vizag-Coromandel;
Nagajana P-Jyoti-EHS2-Vizag-Coromandel; Vinod Kumar Vikram-GH-EHS-Vizag-
Coromandel
Subject: Half Yearly EC (Environment Clearance) Compliance Report-199d
Attachments: EC Compliance_Customered Fertilizer Plant_Mar 23.pdf

Dear Sir,

Ref: E. No. J-13211/848/2023-4-131 dated 13.04.2023

Please find the attached half yearly compliance report of Environment Clearance issued by UDOEC for manufacturing of Customered Fertilizer Plant of our capacity of 500 MTTPD each.

Period of submission : Oct'22 to Mar'23
Unit : Coromandel International Limited, Visakhapatnam

Nagajana
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SAVE ENVIRONMENT SAVE LIFE



Coromandel International Limited
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W: www.coromandel.in
A 100% equity owned company

MoEF-EC-COMPLIANCE STATUS OF Environmental Clearance (EC) issued by MoEF for Manufacture of Customized Fertilizer plant of two streams of 200 MTPO each

Ref: P. No. J-110115482095-4A-80) dated June 10, 2009

For the period from Oct-2022 to March-2023

A.) SPECIFIC CONDITIONS:

S.NO	CONDITION	COMPLIANCE STATUS
i)	The company shall comply with all the conditions mentioned in the environmental clearance issued to the existing plant vide Ministry's letter F.No.J-110110142007-1A.810 dated 31st August, 2007 for expansion of the fertilizer plant from 2700 to 3600 TPD.	Complied
ii)	The project authorities shall ensure zero discharge from the proposed plant. The wastewater generated for the existing plant shall be treated and disposed as per the standards prescribed by the Andhra Pradesh Pollution Control Board. No utilities shall be developed for this project.	Zero effluent discharge from the customized fertilizer plant.
iii)	The project authorities shall not manufacture the new materials as this plant will be based on mixing process only.	No new materials will be manufactured.
iv)	The project authority shall install dust collection such as cyclone system in fertilizer mixing and bagging plant to control particulate emissions.	Installed cyclones in series for each circuit to eliminate dust emissions.
v)	The company shall carry out air quality monitoring at ventstacks and regular monitor the gaseous emissions along with particulate matter. The reports shall be submitted to the Ministry's Regional Office at Bangalore, CPCB and SPCB.	Air quality monitoring reports being regularly furnished to CPCB & SPCB.

S NO	CONDITION	COMPLIANCE STATUS
vi)	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office at Bangalore, CPCB and SPCB.	Stack analysis reports being regularly furnished to APPCB & CPCB.
vii)	Data on ambient air quality, stack emissions and fugitive emissions shall be regularly uploaded on the website of the company and submitted on-line to the Ministry's Regional Office at Bangalore, Andhra Pradesh Pollution Control Board (APPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPM, SO ₂ and NO _x shall also be displayed outside the premises at the appropriate place for the general public.	Installed three online monitoring AQM stations and connected to APPCB server. Ambient air quality is also being monitored through MoEFCC approved laboratory.
viii)	the company shall develop the green belt in 33% area, out of total area to mitigate the effect of fugitive emissions and NOISE as per the guidelines of CPCB	Out of the 425 acres, the reserved land area is 313 (after demarking from VPT) and the green belt is developed in 125 acres area which is more than 33%. Hence Complied
ix)	The company shall implement all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries for existing and proposed plant.	Complied.
x)	Occupational health surveillance of the workers shall be carried out in a regular basis and records shall be maintained as per the Factories Act.	Annual health checkup being conducted for employees and contract workmen according to Factories act.

S.NO	CONDITION	COMPLIANCE STATUS
vi)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Plant has full fledge fire fighting system and also have an agreement for mutual aid with neighboring industries.
vii)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, credit etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	All contract workmen (including contract workers) are provided canteen, drinking water, toilet facilities. Annual health checkup is also being done for regular contract workmen.
B) GENERAL CONDITIONS		
i)	The project authorities shall strictly adhere to the stipulations of the SPCB / State Government or any statutory body.	Agreed
ii)	The gaseous emissions (SO ₂ , HCl, NO _x , NH ₃ , Fertiliser dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office, CPCB and SPCB.	The gaseous emissions are being monitored on continuous basis with in house laboratory. Further, MoEF approved third party analysis is also carried out on monthly basis and the reports are submitted regularly. Complex A, Complex-B & Complex C train were installed with online stack analyzer and the data uploading to APPCB & CPCB websites through cloud server. SAP-i & SAP-ii installed with online stack analyzer and connected to CPCB & APPCB websites.
		Phosphoric acid and rock grinding units were installed with PM Online stack analyzers. The HF analyzer is also installed at Phosphoric acid plant.

S.NO	CONDITION	COMPLIANCE STATUS
		All Connected to APPCB & CPCB websites.
ii)	All the waste waters generated from the various processes shall be recycled/reused in the plant and zero discharge shall be maintained. The domestic waste water shall be treated in septic tanks and treated waste shall be used for irrigation in the green belt.	Zero effluent discharge from complex plant and developed & implemented schemes to make minimized effluent from phosphoric acid & Sulfuric acid plants
iv)	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 the 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.	Noted
v)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Emergency interlocks provided to critical equipments. Failure of any equipment plant will lead to plant shut down immediately.
vi)	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the down wind direction as well as where maximum ground level concentrations are anticipated.	Ambient air quality is also being monitored through MoEF approved laboratory.
vi)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubber water shall be sent to ETP for further treatment.	Stacks & scrubbers have been installed according to CPCB guidelines. Scrubbing liquid recycling into process

S NO.	CONDITION	COMPLIANCE STATUS
vi)	Fugitive emissions in the work zone environment, product and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Polluter Control Boards/Central Polluter Control Board.	Being measured quarterly as per OHSAS 45001 Standard and procured workplace monitoring equipments to monitor frequently.
ix)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals rules, 1989 as amended in the October, 1994 and January 2000 and Hazardous Waste (Management and Handling) Rules, 1989 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	Maintaining FORM-3 and FORM-13 for storage and transfer of hazardous waste. Hazardous Waste is sending to authorized dealers. Hazardous waste authorization has been obtained from APPCB.
ii)	The overall noise levels in and around the plant area shall be kept well within the standards by providing noise control measures including acoustic hoods, silencers.	Noise monitoring is being carried out and the noise levels are well within the prescribed noise standards.
iii)	The company shall develop rainwater harvesting structures to harvest the run-off water for recharge of groundwater.	Noted.

S.NO	CONDITION	COMPLIANCE STATUS
i)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	1. Installed four stage scrubbing system in complex plant 2. Installed Alkal scrubbers in both sulfuric acid plants 3. Installed fume scrubber in phosphoric acid plant 4. Recovery of fourfolded acid from 30% phosphoric acid 5. Installed bag filters at rock grinding section and rock unloading at wharf 6. Installed tube conveyors to transfer raw material & product in order to avoid spillages 7. Developed green belt in 30% of the plant area (Out of the 408 acres, the revised land area is 313 (after demarcating from VPT) and the green belt is developed in 125 acres area which is more than 30%. Hence Complied.)
iii)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/RMP report.	Noted
iv)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental management and Monitoring functions	AGM - E-6 is in-charge of pollution control and directly reports to unit head. He is supported by Manager - Environment and other staff from quality control & laboratory for carrying out analysis as per environmental management plan.
vi)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Funds are provided through Revenue/Capex budget.

S NO	CONDITION	COMPLIANCE STATUS
xi)	The implementation of the project vis-a-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPOB/SPCB. A six-monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Noted. Compliance report sent regularly and the same is uploaded in company website.
xii)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, Gram Panchayat, District Industry Centre and Collector's office/Inspector's Office for 30 days.	--
xiii)	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 SPCB and may also be seen at Website of the Ministry at http://emr.mca.gov.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.	Advertised in prominent news papers in local language and also English, and copies were forwarded to Regional Office, MoEF, Chennai and SPCB.
xiv)	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.	Noted

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TEST REPORT

Test Report No. TLC/N/Env/CIL/12/1022

@ 02.11.2022

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Curamant International Limited, Visakhapatnam
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of OCTOBER-2022

Summary of Ambient Air quality Monitoring Data for the Month of OCTOBER-2022

Parameter		AQ-1 Station at the Top of Calcutta	AQ-2 Station near DGM	AQ-3 Station at Gate - 13 (near Eggling Road)
PM2.5	Maximum	21	28	28
	Maximum	48	48	42
	Maximum	44	48	42
	Average	23	28	33
PM 10	Maximum	51	55	58
	Maximum	88	88	88
	Maximum	89	89	88
	Average	48	72	67
SO ₂	Maximum	0.8	0.5	7.0
	Maximum	25.5	21.5	23.5
	Average	15.1	1.7	12.4
	Maximum	25.5	21.5	23.5
NO ₂	Maximum	12.7	14.5	16.9
	Maximum	25.5	21.5	20.8
	Maximum	24.3	21.9	20.8
	Average	17.3	21.9	14.5
NH ₃	Maximum	0.04mg/M ³	0.04mg/M ³	0.04mg/M ³
	Maximum	0.04mg/M ³	0.04mg/M ³	0.04mg/M ³
	Maximum	0.04mg/M ³	0.04mg/M ³	0.04mg/M ³
	Average	0.04mg/M ³	0.04mg/M ³	0.04mg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

4.02.12.2022

Test Report No. TL/C/V/Env/CH/13/122

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Coromandel International Limited, Visakhapatnam.
 Location of sampling: Stations as per details given.
 Period of Monitoring: For the Month of NOVEMBER-2022

Summary of Ambient Air quality Monitoring Data For the Month of NOVEMBER-2022

Parameters		AAQ-1 Station at Ex Top of Culverts	AAQ-2 Station near DG store	AAQ-3 Station at Gate-13 (Near Saggong Chowk)
PM _{2.5}	Nitrogen	22	21	21
	Monoxide	22	25	40
	SO ₂	42	45	41
	Average	36	38	37
PM ₁₀	Nitrogen	68	66	62
	Monoxide	78	80	82
	SO ₂	73	88	82
	Average	71	78	72
SO ₂	Nitrogen	14.7	20.2	15.9
	Monoxide	24.7	25.1	14.8
	SO ₂	25.6	26.5	21.5
	Average	24.1	23.7	16.3
NO ₂	Nitrogen	15.3	19.0	12.8
	Monoxide	22.9	21.2	18.4
	SO ₂	22.0	21.2	20.6
	Average	18.2	18.7	15.7
NO _x	Nitrogen	0.02mg/M ³	0.02mg/M ³	0.00 mg/M ³
	Monoxide	0.00mg/M ³	0.00mg/M ³	0.00mg/M ³
	SO ₂	0.02mg/M ³	0.00mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.00mg/M ³	0.02mg/M ³

All values are expressed in ppm³
except Arsenide

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/VR/ee/CIL/12/1222

(01.01.2022)

Description of Test: Ambient Air quality Monitoring inside the CFL
 Name of the client: Ceramopal International Limited, Vachhapuram
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of DECEMBER-2022

Summary of Ambient Air quality Monitoring Data for the Month of DECEMBER-2022

Parameters		AAQ-I Station at the Top of Chimney	AAQ-I Station near DG set	AAQ-I Station at Gate -II (Near Dumping yard)
SO ₂	Minimum	34	37	33
	Maximum	42	45	44
	SPM ₁₀	42	45	44
	Average	38	41	38
PM ₁₀	Minimum	40	39	40
	Maximum	47	44	49
	SPM ₁₀	42	39	49
	Average	39	38	41
NO ₂	Minimum	16.5	21.5	16.5
	Maximum	25.5	27.5	25.5
	SPM ₁₀	18.5	26.4	18.5
	Average	21.1	26.5	25.2
NH ₃	Minimum	16.5	20.5	16.5
	Maximum	25.5	26.5	25.5
	SPM ₁₀	22.5	28.5	25.5
	Average	18.8	24.5	18.6
NH ₄	Minimum	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Maximum	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	SPM ₁₀	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Average	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants

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TEST REPORT

Test Report No. TLCN/Env/CIL/12/0113

01.02.2023

Description of Tests: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Carsonsand International Limited, Visakhapatnam
 Location of sampling: Stations as per details given
 Period of Monitoring: For the Month of JANUARY-2023

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

Parameters		AAQ-I Station at the Top of Columns	AAQ-I Station near DG area	AAQ-3 Station at Gate -01 Other Drilling (dist.)
PM _{2.5}	Minimum	38	38	38
	Maximum	43	43	43
	95%ile	43	43	43
	Average	39	39	39
PM ₁₀	Minimum	41	41	41
	Maximum	81	81	81
	95%ile	81	81	81
	Average	72	76	73
SO ₂	Minimum	14.5	12.8	12.7
	Maximum	21.8	21.8	13.0
	95%ile	22.8	21.8	13.0
	Average	22.8	21.8	13.0
NO ₂	Minimum	18.8	15.6	14.7
	Maximum	23.8	26.5	16.2
	95%ile	22.8	26.5	16.2
	Average	21.3	24.3	16.2
NH ₃	Minimum	0.11mg/m ³	0.12mg/m ³	0.10mg/m ³
	Maximum	0.12mg/m ³	0.10mg/m ³	0.12mg/m ³
	95%ile	0.11mg/m ³	0.10mg/m ³	0.12mg/m ³
	Average	0.11mg/m ³	0.10mg/m ³	0.10mg/m ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLCN/Eas/CIL/12/0113

01.02.03.2023

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

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

Parameters		AAQ-I Station at the Top of Colletts	AAQ-I Station near DGWH	AAQ-I Station at Gate-01 (Near Substation area)
PM ₁₀	Hottest	45	31	36
	Warmest	44	31	45
	Wettest	44	44	40
	Average	37	40	39
	Hardest	44	39	36
PM _{2.5}	Hottest	76	54	61
	Warmest	75	65	64
	Wettest	75	75	74
	Average	75	75	74
SO ₂	Hottest	15.5	15.3	15.6
	Warmest	15.8	15.7	16.8
	Wettest	16.0	15.0	16.3
	Average	15.8	15.7	16.6
NO ₂	Hottest	15.3	15.3	16.7
	Warmest	15.7	16.2	16.2
	Wettest	15.3	16.3	16.3
	Average	15.3	16.3	16.3
NH ₃	Hottest	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³
	Warmest	0.07mg/M ³	0.11mg/M ³	0.07mg/M ³
	Wettest	0.07mg/M ³	0.12mg/M ³	0.07mg/M ³
	Average	0.07mg/M ³	0.09mg/M ³	0.07mg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLLCV/En/CH/848023

06/04/2023

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

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

Parameters		AAQ-1 Station at the Top of Culture	AAQ-2 Station near BG 146	AAQ-3 Station at Gate -07 (Near Bagging shed)
PM ₁₀	Maximum	34	35	23
	Minimum	40	43	42
	Average	34	42	47
	Overall	34	34	27
PM _{2.5}	Maximum	35	49	40
	Minimum	51	54	54
	Average	52	59	54
	Overall	45	53	51
SO ₂	Maximum	8.5	8.5	8.5
	Minimum	10.2	10.2	12.4
	Average	9.2	9.4	10.8
	Overall	10.2	11.2	12.4
NO ₂	Maximum	12.8	13.3	13.3
	Minimum	15.1	14.4	15.1
	Average	15.5	14.8	15.4
	Overall	12.8	13.3	14.4
NH ₃	Maximum	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Minimum	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Average	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³
	Overall	0.01mg/m ³	0.01mg/m ³	0.01mg/m ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Lab and Consultants



Labs and Consultants**Regional Office :**

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Test Report No. TLOV/Env/CPL/16/1822

20.02.2022

Description of Test: **Prize wells analysis**Name of the client: **Coromandel International Limited, Vellore**Location of sampling: **Stations as per details given**Date of Sample collection : **As per details given**

No	Date	Location of Prize-well	F- mg/L
1	20.02.2022	CPL - colony	0.5
2	"	Near 4 OP Gate	0.5
3	"	Near 7 th gate	0.5
4	"	B.L.Naidu	0.5
		ISIRI 500 Permissible limit	1.5
	Present		500 mg/L - D

For TEAM Labs and Consultants



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Test Report No. TLA/VIEW&/CFL/16/1122

06.02.11.2022

Description of Test: Piles wall analysis

Name of the client: Caromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pile-wall	F- mg/l
1	26.11.2022	CFL - rotary	0.25
2	"	Near 4 th OP Gate	0.31
3	"	Near 7 th gate	0.5
4	"	B.T.Nakla	0.8
		ES18304 Permissible limit	1.5
	Prepared:		SM 4188 I- II

For TEAM Labs and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CFL/16/1222

dt: 02.01.2023

Description of Test: Pesticide 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 Pesticide well	P- mg/L
1	26.11.2022	CFL - colony	0.3
2	"	Near OP Gate	0.5
3	"	Near T th gate	0.5
4	"	B.T. Naidu well	0.5
		ISI 8508 Permissible limit	1.5
	Prepared		gm 400 P. D

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Lab/CFL/16/8123

At 02.01.2023

Description of Test: Petro wells analysis

Name of the client: Caromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of sample collection : As per details given

No	Date	Location of Petro-well	F- mg/L
1	15.01.2023	CFL - colony	8.4
2	"	Near 4 OP Gate	6.5
3	"	Near 7 th gate	0.4
4	"	B.T.Naidu	9.8
		1014500 Permissible limit	1.5
	Forward		1M 450 F. P

For TEAM Labs and Consultants



Labs and Consultants

Registered Office :

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/W/Env/CPL/16/0223

dtd.02.03.2023

Description of Test: Petta 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 Petta-well	F- mg/L
1	23.02.2023	CPL - intake	0.3
2	"	Near 4 OP Gate	0.6
3	"	Near ^{1st} gate	0.5
4	"	B.T/Vada gate area	0.5
		ISO596 Fermentable limit	0.5
	Protocol		540 4000 F. G.

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

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TEST REPORT

Test Report No. TLC/N/Eas/CFL/108323

01.01.2023

Description of Test: Pesticide analysis

Name of the client: Carromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide test	P. mg/L
1	11.01.2023	CFL - colony	0.2
2	"	Near DT Gate	0.2
3	"	Near T th gate	0.4
4	"	CWC	0.5
		15/1500 Permissible limit	1.5
	Prepared		001 000 P- 10

For TEAM Labs and Consultants



Labs and Consultants

Registered Office:

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TEST REPORT

Test Report No. TLE/906/PCR/107922

01.12.2022

Description of Test:

Source Emission Monitoring under the CFI.

Name of the client:

Carnaudon International and Limited, Visakhapatnam

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

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF OCTOBER-2022

S.No	Stack attached to	Flow rate NM ³ /hr	parameter	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	85542	Particulate matter	12	45 mg/NM ³
			Acid gases	75	100.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
2	Complex B	10999	Particulate matter	26	45 mg/NM ³
			Acid gases	65	100.0 mg/NM ³
			Fluoride	1.1	4.0 mg/NM ³
3	Complex C	18187	Particulate matter	18	45 mg/NM ³
			Acid gases	70	100.0 mg/NM ³
			Fluoride	1.1	4.0 mg/NM ³
4	Sulphuric acid plant-I	9780	Sulphur dioxide (SO ₂ mg/NM ³)	8.25 (Kg/NM ³)	1.0 Kg/NM ³
			Sulphur trioxide (SO ₃ mg/NM ³)	5.0	8.25 Kg/NM ³
			acid mist	5.0	25 mg/NM ³
5	Sulphuric acid plant-II	27528	Sulphur dioxide (SO ₂ mg/NM ³)	0.4400 (Kg/NM ³)	1.00 Kg/NM ³
			Sulphur trioxide (SO ₃ mg/NM ³)	5.0	8.25 Kg/NM ³
			Acid mist	5.0	25 mg/NM ³
6	Phosphoric acid plant-I	16083	Particulate matter	21	30 mg/NM ³
			Fluoride	3.5	30 mg/NM ³
7	Iron grinding unit (O4)	9700	Particulate matter	24	45 mg/NM ³
			Total Fluoride	5.0	20 mg/NM ³
8	Urinal factor	1206	Particulate matter	24	15.0 mg/NM ³
9	Phosphoric acid plant-2	14339	Particulate matter	27	30 mg/NM ³
			Total Fluoride	4.0	20 mg/NM ³
10	Iron grinding unit-1 (New)	10275	Particulate matter	28	30 mg/NM ³
			Total Fluoride	5.7	20 mg/NM ³

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

41.01.2022

Test Report No: TLU/V/Env/CL/11/0122

Description of Test: Source Emission Monitoring (SEM) for CH₄

Name of the client: Camomodo International Limited, Visakhapatnam

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

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF NOVEMBER 2021

Sl. No.	Stack attached to	Flow rate NM ³ /hr	Parameter	Conc. mg/NM ³	Average Limit
1	Complex A	17503	Particulate matter	72	42 mg/NM ³
			Ammonia	95	155 mg/NM ³
			Fluoride	1.1	4.2 mg/NM ³
2	Complex B	24151	Particulate matter	28	45 mg/NM ³
			Ammonia	75	163.8 mg/NM ³
			Fluoride	1.9	4.8 mg/NM ³
3	Complex C	10862	Particulate matter	19	48 mg/NM ³
			Ammonia	72	167.8 mg/NM ³
			Fluoride	1.9	4.1 mg/NM ³
4	Sulphuric acid plant-I	95157	Sulphur dioxide	0.140 kg/NM ³ (174 mg/NM ³)	1 kg/NM ³
			Sulphur trioxide	78	3.18 kg/NM ³
			Acid mist	70	28 mg/NM ³
			Sulphur dioxide	0.36 kg/NM ³ (15 mg/NM ³)	6.65 kg/NM ³
			Sulphur trioxide	3.1	0.19 kg/NM ³
5	Sulphuric acid plant-II	20642	Sulphur dioxide	27	20 mg/NM ³
			Sulphur trioxide	71	80 mg/NM ³
			Acid mist	71	20 mg/NM ³
			Fluoride	6.2	38 mg/NM ³
6	Phosphate acid plant-I	15832	Particulate matter	24	30 mg/NM ³
			Total Fluoride	2.4	22 mg/NM ³
7	Waste grading unit (WGU)	18049	Particulate matter	21	117 mg/NM ³
			Total Fluoride	2.1	117 mg/NM ³
8	Waste Boiler	18054	Particulate matter	12	38 mg/NM ³
			Total Fluoride	1.2	34 mg/NM ³
9	Phosphate acid plant-II	14781	Particulate matter	20	30 mg/NM ³
			Total Fluoride	2.0	30 mg/NM ³
10	Waste grading unit (WGU)	11212	Particulate matter	1.7	20 mg/NM ³
			Total Fluoride	1.7	20 mg/NM ³

For TEAM External Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TCA/Env/CH/TS/222

01/02/2023

Description of Test:

Source Emission Monitoring inside the CPL

Name of the client:

Corus and International Limited, Visakhapatnam

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

SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OF DECEMBER-2022

Sl. No.	Stack attached to	Flow rate (m ³ /min)	Parameter	Conc. (mg/m ³)	EF (kg/tonne of fuel)
1	Sample A	15000	Particulate matter	34	40 mg/kg
			Sulphur dioxide	31	30.2 mg/kg
			Fluoride	0.8	0.8 mg/kg
2	Sample B	12500	Particulate matter	22	40 mg/kg
			Sulphur dioxide	120	100 mg/kg
			Fluoride	1.1	0.8 mg/kg
3	Sample C	10400	Particulate matter	38	40 mg/kg
			Sulphur dioxide	35	30.2 mg/kg
			Fluoride	1.2	0.8 mg/kg
4	Sulphuric acid plant I	4023	Sulphur dioxide	3200 kg/m ³ (2400 mg/m ³)	1.5 kg/kg
			Sulphur trioxide	74	0.2 kg/kg
			Acid mist	74	0.2 kg/kg
5	Sulphuric acid plant II	2260	Sulphur dioxide	4000 kg/m ³ (2400 mg/m ³)	0.2 kg/kg
			Sulphur trioxide	80	0.2 kg/kg
			Acid mist	74	0.2 kg/kg
6	Phosphoric acid plant I	10044	Particulate matter	21	40 mg/kg
			Fluoride	0.1	0.8 mg/kg
			Fluorine	35	0.8 mg/kg
7	Sulphuric acid plant II	907	Particulate matter	21	40 mg/kg
			Sulphur dioxide	1.2	0.8 mg/kg
			Fluorine	0.1	0.8 mg/kg
8	Phosphoric acid plant II	2327	Particulate matter	31	40 mg/kg
			Sulphur dioxide	33	0.8 mg/kg
			Fluorine	35	0.8 mg/kg
9	Sulphuric acid plant III	7148	Particulate matter	21	40 mg/kg
			Sulphur dioxide	1.2	0.8 mg/kg
			Fluorine	35	0.8 mg/kg

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TLCP/0001/CBL/11/0123

08.02.2023

Description of Test:

Source Emission Monitoring inside the CPL

Name of the client:

Consomend International Limited, Visakhapatnam

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

SOURCE & STACK EMISSION MONITORING FOR THE MONTH OF JANUARY 2023

S.No	Stack attached to	Flow rate NM ³ /hr	parameter	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	16000	Particulate matter	27	25 mg/NM ³
			Sulphur dioxide	82	185.2 mg/NM ³
			Fluoride	5.2	4.0 mg/NM ³
			Acid gas	10	40 mg/NM ³
2	Complex B	20000	Particulate matter	29	40 mg/NM ³
			Sulphur dioxide	119	185.2 mg/NM ³
			Fluoride	5.5	4.0 mg/NM ³
			Acid gas	100	185.2 mg/NM ³
3	Complex C	17000	Particulate matter	15	40 mg/NM ³
			Sulphur dioxide	100	185.2 mg/NM ³
			Fluoride	5.2	4.0 mg/NM ³
			Acid gas	100	185.2 mg/NM ³
4	Sulphuric acid plant-I	9767	Sulphur dioxide	6.145kg/NM ³	1 kg/NM ³
			Sulphur trioxide	0.0	0.0 kg/NM ³
			Acid gas	0.0	0.0 kg/NM ³
			Fluoride	0.0	0.0 kg/NM ³
5	Sulphuric acid plant-II	21150	Sulphur dioxide	6.499kg/NM ³	1 kg/NM ³
			Sulphur trioxide	0.0	0.0 kg/NM ³
			Acid gas	0.0	0.0 kg/NM ³
			Fluoride	0.0	0.0 kg/NM ³
6	Phosphate and plant-I	14850	Particulate matter	20	20 mg/NM ³
			Sulphur dioxide	1.0	20 mg/NM ³
			Fluoride	1.0	20 mg/NM ³
			Acid gas	1.0	20 mg/NM ³
7	Rock grinding unit (Old)	1001	Particulate matter	15	20 mg/NM ³
			Sulphur dioxide	1.0	20 mg/NM ³
			Fluoride	1.0	20 mg/NM ³
			Acid gas	1.0	20 mg/NM ³
8	Waste Boiler	8022	Particulate matter	24	115 mg/NM ³
			Sulphur dioxide	1.0	20 mg/NM ³
			Fluoride	1.0	20 mg/NM ³
			Acid gas	1.0	20 mg/NM ³
9	Phosphate and plant-II	20014	Particulate matter	25	40 mg/NM ³
			Sulphur dioxide	1.0	20 mg/NM ³
			Fluoride	1.0	20 mg/NM ³
			Acid gas	1.0	20 mg/NM ³
10	Rock grinding unit (New)	7340	Particulate matter	15	20 mg/NM ³
			Sulphur dioxide	1.0	20 mg/NM ³
			Fluoride	1.0	20 mg/NM ³
			Acid gas	1.0	20 mg/NM ³

For TEAM Labs and Consultants :



Labs and Consultants

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TEST REPORT

Test Report No. T/CN/Env/CEL/11/0222

41.05.2022

Description of Test:

Source Emission Monitoring inside the CPL

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 FEBRUARY 2022

S.No.	Stack attached to	Flow rate m ³ /hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	10500	Particulate matter	30	45 mg/NM ³
			Sulphur dioxide	30	145.0 mg/NM ³
			Fluoride	0.2	4.0 mg/NM ³
2	Complex B	11470	Particulate matter	30	45 mg/NM ³
			Sulphur dioxide	30	145.0 mg/NM ³
			Fluoride	0.2	4.0 mg/NM ³
3	Complex C	11470	Particulate matter	30	45 mg/NM ³
			Sulphur dioxide	30	145.0 mg/NM ³
			Fluoride	0.2	4.0 mg/NM ³
4	Sulphuric acid plant-I	9000	Sulphur dioxide	6.00 kg/NM ³ (20mg/NM ³)	1 kg/NM ³
			Sulphur trioxide	30	6.20 kg/NM ³
			acid mist	30	30 mg/NM ³
			Sulphur dioxide	6.00 kg/NM ³ (20mg/NM ³)	0.05 kg/NM ³
			Sulphur trioxide	30	6.20 kg/NM ³
5	Sulphuric acid plant-II	9000	acid mist	30	30 mg/NM ³
			acid mist	30	30 mg/NM ³
6	Phosphate acid plant-I	10700	Particulate matter	30	45 mg/NM ³
			Fluoride	0.2	20 mg/NM ³
			Fluoride	0.2	20 mg/NM ³
7	Acid grouting unit (Old)	9000	Particulate matter	30	45 mg/NM ³
			Total Fluoride	0.2	20 mg/NM ³
8	Water Boiler	8100	Particulate matter	30	115 mg/NM ³
9	Phosphate acid plant-II	10700	Particulate matter	30	45 mg/NM ³
			Total Fluoride	0.2	20 mg/NM ³
10	Acid grouting unit (New)	9000	Particulate matter	30	45 mg/NM ³
			Total Fluoride	0.2	20 mg/NM ³

For TEAM Labs and Consultants



Labs and Consultants

Registered Office :

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ANP, Accredited Laboratory

TEST REPORT

Test Report No. TCU/V/Env/CTE/15/1022

01.02.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Ltd/Red, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 21.10.2022

NO	Location of well	pH	PH4	F-	Ammonia Nitrogen
			mg/l	mg/l	mg/l
1	Kamala Devi colony- No.1	7.5	Nil	0.2	Nil
2	Kamala Devi colony- No.2	7.6	Nil	0.2	Nil
3	Yaduvarampalem-1	7.7	Nil	0.2	Nil
4	Yaduvarampalem-2	7.5	Nil	0.2	Nil
5	Mulagada No.1	7.6	Nil	0.2	Nil
6	Mulagada No.2	7.5	Nil	0.2	Nil
7	Mulagada No.3	7.6	Nil	0.2	Nil
8	Kotipamada dhara	7.7	Nil	0.2	Nil
	Provided	30.302 Part- 14.190	APHA-4500	SM 4500 F- D	APHA-2000

For TEAM Labs and Consultants



Lab and Consultants

Registered Office :

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TEST REPORT

Test Report No. TLC/V/Env/CIL/15/1122

41.02.12.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Cosmandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.11.2022

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia I Nitrogen mg/l
1	Kamalahalli colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.3	Nil	0.2	Nil
3	Vedurmanipalem-1	7.5	Nil	0.2	Nil
4	Vedurmanipalem-2	7.6	Nil	0.2	Nil
5	Malagada No.1	7.6	Nil	0.2	Nil
6	Malagada No.2	7.7	Nil	0.3	Nil
7	Malagada No.3	7.4	Nil	0.2	Nil
8	Kadiparada ditha	7.9	Nil	0.2	Nil
	Pincode	520025 Part B-480	APMAHARD	504 490 F- B	A PHACORP

For TEAM Lab and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLL/NO/Env/CH/05/1222

dt. 02.04.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Camaranda International Limited, Varadipetnasa

Location of sampling: Stations as per details given

Date of sample collection: 26.12.2022

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahalli colony- No.1	7.3	NB	0.2	ND
2	Kamalahalli colony- No.2	7.3	NB	0.3	ND
3	Yeshwanthpuram-1	7.3	NB	0.2	NB
4	Yeshwanthpuram-2	7.4	NB	0.3	NB
5	Malaguda No.1	7.6	NB	0.2	NB
6	Malaguda No.2	7.6	NB	0.3	NB
7	Malaguda No.3	7.4	NB	0.3	NB
8	Kodipandula ditha Pond	7.5	NB	0.2	NB
		IS:2025 Part 11-1980	AFSA/0000	50 400 P- H	AFSA/0000

For TEAM Lab and Consultant

Labs and Consultants

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TEST REPORT

Test Report No. TLCV/Eaw/CIL/15/0023

06.02.2023

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 mg/l	F- mg/l	Ammonical N Nitrogen mg/l
1	Kemaladevi colony- No.1	7.6	Nil	0.2	Nil
2	Kemaladevi colony- No.2	7.3	Nil	0.1	Nil
3	Vidharan colony-1	7.7	Nil	0.3	Nil
4	Vidharan colony-2	7.5	Nil	0.3	Nil
5	Malagada No.1	7.6	Nil	0.3	Nil
6	Malagada No.2	7.7	Nil	0.2	Nil
7	Malagada No.3	7.4	Nil	0.3	Nil
8	Kellynada dike	7.5	NA	0.7	Nil
	- Passed	IS: 4610 Part II-1983	APHA 4500B	APHA 4500 F B	APHA 4500C

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/N/Lab/CIL/16/0223

01.02.2023

Description of Test: Surrounding village with Ground water analysis

Name of the client: Comanmed International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of sample collection: 27.02.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahesi colony- No.1	7.5	NB	0.2	NB
2	Kamalahesi colony- No.2	7.6	NB	0.2	NB
3	Veluruvangulam-1	7.5	NB	0.3	NB
4	Veluruvangulam-2	7.7	NB	0.3	NB
5	Mulagada No.1	7.6	NB	0.3	NB
6	Mulagada No.2	7.3	NB	0.2	NB
7	Mulagada No.3	7.5	NB	0.3	NB
8	Kodigantala dhbm	7.3	NB	0.3	NB
	Principal	IS:2015 Part 11-1992	APR01/08009	IS: 4360 P- B	APR01/0800C

For TEAM Labs and Consultants



TEST REPORT

Test Report No.TLC/V/Env/CIL/09/0212

dtd.04.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Caronsudel International Limited, Yashlopatnam

Location of sampling: Stations as per details given

Date of Sample collection: 14.03.2023

Sl. NO	Location of well	pH	PO4 mg/l	B- mg/l	Ammonia (Nitrogen) mg/l
1	Kamalaheri colony- No.1	7.6	Nil	0.3	Nil
2	Kamalaheri colony- No.2	7.3	Nil	0.2	Nil
3	Yeduruvaripalem-1	7.7	Nil	0.3	Nil
4	Yeduruvaripalem-2	7.7	Nil	0.3	Nil
5	Malagada No.1	7.8	Nil	0.3	Nil
6	Malagada No.2	7.5	Nil	0.2	Nil
7	Malagada No.3	7.8	Nil	0.3	Nil
8	Kodiyandala dibba	7.6	Nil	0.2	Nil
	Present	By JGGS Pvt 11-11-2023	AP/SL/09/02	SM 4000-F- D	AP/SL/09/02

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-11E, 11F, 117 & 5M, Aerospaces Block, Aditya Enclave, Anandpur, Hydraland - 530008.

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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/CPL/20/0021

dt. 02.11.2022

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Commandul International Limited, Visakhapatnam

Location of sampling: Near Ward

Date of Collection: As per details Given

Analysis Report for the Month of OCTOBER 2022

Date of monitoring	Time	PM ₁₀ Limit 98 $\mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
27.10.2022 To 28.10.2022	09.00 to 09.01 hrs	42	79	15.5	16.5

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office:**

B-115, 116, 117 & 565, Annapurna Block, Aditya Enclave, Anandpur, New Delhi - 500018

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/08/Env/CFL/09/11/22

06.02.11.2022

Description of Test: Ambient Air Quality Monitoring outside the CFL.

Name of the client: Cosmonaut International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of NOVEMBER-2022

Date of monitoring	Time	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
18.11.2022 To 19.11.2022	09:00 to 09:00 hrs	40	87	14.1	18.9

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

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLO/V/Env/CFL/09/1212

01.02.2013

Description of Test: Ambient Air Quality Monitoring outside the CFL.

Name of the client: Ceramanda International Limited, Vinukhapuram

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of DECEMBER-2012

Date of monitoring	Time	PM ₁₀ Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 60 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 60 $\mu\text{g}/\text{m}^3$
31.12.2012 To 01.01.2013	09.00 hrs 00.00 hrs	43	92	54.6	19.8

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

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TLC/VI/Env/CPL/28/0123

dt 02.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Commaeul International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	Time	PM_{10} Limit 60 $\mu g/m^3$	$PM_{2.5}$ Limit 39 $\mu g/m^3$	SO_2 Limit 80 $\mu g/m^3$	NO_2 Limit 80 $\mu g/m^3$
26.01.2023 To 29.01.2023	09.00 to 09.00 hrs	40	78	14.8	18.5

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

For TEAM Labs and Consultants



Lab and Consultants

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Ph : 046-23748256 / 23748876, Fax : 046-23748880, Email : teamlab@gmail.comLaboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt. New Delhi
ISO/IEC Accredited Laboratory**TEST REPORT**Test Report No. **TLC/OTW/CFL088223****08.02.2023**Description of Test: **Ambient Air Quality Monitoring outside the CFL**Name of the client: **Coromandel International Limited, Visakhapatnam**Location of sampling: **New Ward**Date of Collection: **As per details Given****Analysis Report for the Month of FEBRUARY 2023**

Date of monitoring	Time	PM ₁₀ Limit 99 µg/m ³	PM _{2.5} Limit 99 µg/m ³	SO ₂ Limit 99 µg/m ³	NO ₂ Limit 99 µg/m ³
18.02.2023 To 19.02.2023	09.00 to 18.00 hrs	38	55	14.2	21.5

All values are given in µg/m³

For TEAM Lab and Consultants



Labs and Consultants

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B-115, 116, 117 & 505, Anagrantha Block, Aditya Enclave, Anandpur, Hyderabad - 500028.

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/VT/Env/CFL/200323

dtd: 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Caremasah International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of MARCH-2023

Date of monitoring	Time	PM ₁₀ Limit 60 $\mu\text{g}/\text{m}^3$	PM _{2.5} Limit 50 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
23.03.2023 To 24.03.2023	09.00 to 09.00 hrs	34	77	12.2	28.8

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

5-105, 116, 117 & 503, Annapurna Block, Aditya Crestive, Annapurna, Hyderabad - 500036

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

Test Report No: TL/CV/Env/CTL/13/1922

dt: 02.11.2022

Description of Test: Ambient Air Quality Monitoring - outside the CTL

Name of the client: Coremandil International Limited, Visakhapatnam

Location of sampling: Malaguda

Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	NO_2 Limit 80 $\mu\text{g}/\text{m}^3$	NO_x Limit 90 $\mu\text{g}/\text{m}^3$
03.10.2022	14	48	7.5	9.8
06.10.2022	16	42	7.1	9.9
11.10.2022	18	48	8.2	10.2
15.10.2022	24	58	8.5	11.5
17.10.2022	26	58	9.2	10.8
19.10.2022	30	60	11.8	12.2
25.10.2022	34	69	18.5	18.1
Protocol	Gravimetric, CPC method	IS 1032 PART- 33 -2006	IS 1032 PART- 33 -2006	IS 1032 PART- 33 -2006

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

For TEAM Labs and Consultants



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Ph: 9743462074/9855123748/11 Fax: 3462074826, Email: teamcivils@gmail.comLaboratory Recognized by Ministry of Environment, Forest and Climate Change, Govt. New Delhi
NABL Accredited Laboratory**TEST REPORT**

Test Report No: T/C/V/Kar/CEL/14/1023

28.12.2022

Description of Test: Ambient Air Quality Monitoring outside the CFL.

Name of the client: Coreman Ltd. International Limited, Visakhapatnam

Location of sampling: Gullapalem

Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-2022

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 ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.10.2022	28	45	8.5	18.6
06.10.2022	16	40	7.8	9.0
11.10.2022	18	42	8.2	10.9
13.10.2022	22	50	8.2	11.5
17.10.2022	24	52	9.5	11.2
19.10.2022	25	55	9.0	10.4
23.10.2022	20	50	17.5	16.8
Protocol	IS 15859 PART-1 2015	IS 15860 PART-1 2015	IS 15862 PART-1 2015	IS 15863 PART-1 2015

For TEAM Labs and Consultants

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ANIL Accredited Laboratory**TEST REPORT**

dt.02.11.2022

Test Report No.TLC/MS/CE/13/1122

Description of Test: Ambient Air Quality Monitoring, outside the CIL.

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Malagada

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2022

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 50 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2022	20	40	9.9	10.0
05.11.2022	24	48	9.9	11.5
07.11.2022	29	42	9.8	12.5
09.11.2022	26	54	10.2	15.5
14.11.2022	18	55	9.8	12.7
18.11.2022	31	62	10.8	14.7
22.11.2022	30	58	10.0	13.5
Protocol	Gravimetric, CYCLONAL	ISO12102 PART-3 20-2000	ISO12102 PART-1 1-1000	ISO12102 PART-2 4-2000

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

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLA/C/V/Eno/CEL/140122

01.02.2022

Description of Test: Ambient Air Quality Monitoring outside the CFI.

Name of the client: Cosmonoid International Limited, Visakhapatnam

Location of sampling: Gattalapalem

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2021

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 $\mu\text{g}/\text{m}^3$
03.11.2021	22	48	9.0	11.5
05.11.2021	24	52	8.5	10.8
07.11.2021	25	50	9.2	12.0
09.11.2021	28	44	8.5	10.2
14.11.2021	28	58	10.2	14.7
18.11.2021	27	56	10.4	18.5
22.11.2021	31	68	9.8	13.5
Protocol	Gravimetric CPCB method	IS1181 PART 11-2004	IS1181 PART 1-2001	IS1181 PART 1-2004

For TEAM Labs and Consultants



Lab and Consultants

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TEST REPORT

Test Report No. TLC/V/Env/CEH/141222

01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CEH.

Name of the client: Carromworld International Limited, Yashikapuram

Location of sampling: Calicutapalem

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER 2022

Date of monitoring	PM2.5 Limit 50 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO _x Limit 50 $\mu\text{g}/\text{m}^3$
01.12.2022	26	45	9.5	10.5
08.12.2022	25	50	9.0	11.5
13.12.2022	27	54	9.0	12.4
16.12.2022	28	55	9.1	11.7
19.12.2022	30	58	10.7	13.8
23.12.2022	29	54	9.5	13.4
27.12.2022	30	56	9.0	11.8
Protocol	Gravimetric, CPCB method	ISIRI PAGE 32 -2001	ISIRI PAGE 3 -2001	ISIRI PAGE 4 -2001

For TEAM Lab and Consultants

Labs and Consultants**Registered Office :**

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Lab/CIL/13/1221

06.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CIL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mangalade

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER-2022

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_2 Limit 80 $\mu\text{g}/\text{m}^3$
05.12.2022	34	51	9.2	11.8
06.12.2022	26	32	9.5	12.4
13.12.2022	34	50	9.0	11.7
16.12.2022	27	54	10.5	13.3
19.12.2022	25	52	10.1	12.5
23.12.2022	32	65	10.4	13.8
27.12.2022	29	58	9.8	12.7
Frequency	Continuous, CFR mode	ISO102 PART- 2 : 2006	ISO103 PART- 2 : 2005	ISO104 PART- 4 : 2004

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

For TEAM Labs and Consultants

Labs and Consultants

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Ph. : (0) 945-2374800 / 3374800, Fax : 045-2374800, Email : teamlabs@gmail.comLaboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt. New Delhi
NABL Accredited Laboratory**TEST REPORT**

Test Report No. TELCV/Env/CIL/149123

#162.02.2023

Description of Test: Ambient Air Quality Monitoring outside the CPE.

Name of the client: Caromandel International Limited, Visakhapatnam

Location of sampling: Galilapalem

Date of Collection: As per details given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	PM2.5 Limit 05 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 08 $\mu\text{g}/\text{m}^3$	NO _x Limit 90 $\mu\text{g}/\text{m}^3$
03.01.2023	18	42	7.7	9.9
05.01.2023	22	56	8.4	12.8
09.01.2023	26	54	9.2	15.5
13.01.2023	30	67	11.5	18.8
18.01.2023	32	64	11.0	17.6
20.01.2023	25	52	10.3	14.7
24.01.2023	28	58	10.8	13.0
Frequency	Gravimetric, CPCB method	IMPACT NABT 15 - 20%	IMPACT NABT 1 - 10%	IMPACT NABT 5 - 20%

For TEAM Labs and Consultants



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

Test Report No. TLO/V/Env/CEL/139123

(01.01.2023)

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commandal International Limited, Vachhapetram

Location of sampling: Malaguda

Date of Collection: As per details given

Analysis Report for the Month of JANUARY 2023

Date of monitoring	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 ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.01.2023	25	55	8.4	12.5
05.01.2023	26	50	18.2	19.5
09.01.2023	26	55	9.5	12.8
11.01.2023	30	59	18.7	15.8
18.01.2023	24	52	9.5	13.5
26.01.2023	31	62	16.8	15.1
24.01.2023	29	56	18.8	13.5
Protocol	Gravimetric, CPC method	INDIA PARS- 13-2006	INDIA PARS- 2-2002	INDIA PARS- 4-2004

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/Y/Env/CIL/140223

dt.01.03.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commandel International Limited, Vaidikapuram

Location of sampling: Gollapalem

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO ₂ Limit 80 µg/m ³
01.02.2023	28	44	8.0	31.0
04.02.2023	24	59	9.2	13.8
06.02.2023	27	55	10.4	15.0
08.02.2023	32	69	10.8	16.9
14.02.2023	24	65	11.5	15.5
16.02.2023	22	55	10.8	16.6
21.02.2023	25	83	9.7	19.2
Prevalent	Gray/white, CPC based	8000 PARS, 2 - 3000	8000 PARS, 2 - 3000	8000 PARS, 6 - 3000

For TEAM Lab and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLLCV/Env/CIL/13/0223

06.02.2023

Description of Test: Ambient Air Quality Monitoring outside B+ CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Malagada

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY 2023

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.02.2023	24	52	8.0	14.4
04.02.2023	25	54	10.5	16.6
06.02.2023	28	58	11.8	17.6
08.02.2023	31	68	11.2	18.3
14.02.2023	26	57	9.5	14.4
16.02.2023	39	68	11.2	17.5
23.02.2023	27	58	9.8	14.7
Protocol	Good practice, OPC method	IS 1811 PART- II - 2008	IS 1811 PART- I - 2008	IS 1811 PART- I - 2008

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

For TEAM Labs and Consultants



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Ph. : (0) 940-2374885 / 23748816, Fax: 040-23749585, Email: teamlab@gmail.com

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TEST REPORT

Test Report No. TLC/V/Env/CIL/000323

dt. 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CIL

Name of the client: Covansand International Limited, Visakhapatnam

Location of sampling: Cellulapalem

Date of Collection: As per details given

Analysis Report for the Month of MARCH 2023

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
07.03.2023	33	42	7.2	16.3
09.03.2023	33	48	7.9	16.6
12.03.2023	34	55	8.5	13.3
15.03.2023	36	57	8.2	12.8
20.03.2023	33	63	9.8	12.7
22.03.2023	32	48	7.9	11.6
27.03.2023	25	54	8.2	12.3
Protocol	Gravimetric, CPC (mm)	ISO182 PART- 21 (mm)	ISO182 PART- 21 (mm)	ISO182 PART- 21 (mm)

For TEAM Labs and Consultants



Labs and Consultants

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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt, New Delhi
ANML Accredited Laboratory

TEST REPORT

Test Report No.TLC/VIE/CIL/B758323

01.04.2023

Description of Test: Ambient Air Quality Monitoring: outside the CFL.

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mahaguda

Date of Collection: As per details given

Analysis Report for the Month of MARCH-2023

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
07.03.2023	22	47	7.5	9.9
09.03.2023	24	59	8.9	11.6
13.03.2023	25	55	9.4	13.2
15.03.2023	30	68	8.1	11.5
20.03.2023	28	58	6.9	12.2
22.03.2023	30	68	7.5	12.8
27.03.2023	28	68	8.2	11.6
Protocol	Gravimetric, CPCN 3004	IS 182 PART- 11 (2006)	IS 182 PART- 1 (2006)	IS 182 PART- 6 (2004)

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

For TEAM Labs and Consultants

