

09/Mar/2023-08

15/03/2023

To
The Director
Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st and 2nd Floor, Handloom Support Promotion Board,
24, Cathedral Garden Road,
Nungtakkulam, Chennai-600036

Dear Sir,

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

Ref: F. No. J11001/114/2007-94 dated 21.08.2007

Please find the attached half yearly compliance report of Environment Clearance issued by MOEF
for enhanced production capacity of complex fertilizer plant from 2700 MT/yr to 3000 MT/yr.

Period of submission : Oct'22 to Mar'23
To : Coromandel International Limited, Vadthapalem

Thanking You,

Yours Sincerely,

For Coromandel International Limited


M. Ganesan
GP - Road Manufacturing


Dtd : 15/03/2023

CC: The Member Secretary, Head Office-MPCL, Vijayawada
Joint Chief Environmental Engineer, MPCL, J&J Office, Vadthapalem
Environmental Engineer, MPCL, Regional Office, Vadthapalem

EHG-Vrag-Coromandel

From: Nageswari P Alagar-GV-Vrag-Coromandel
Sent: 01 June 2007 11:18
To: ecompliance-ee@prol.in; roshadpore@gmail.com; roshadpore
Cc: EHG-Vrag-Coromandel; Subhadip Mandal; Ugr-Drishman; Vrag-Coromandel; Nageswari P-Alagar-GV-Vrag-Coromandel; Vinod Kumar Mishra-GV-GV-Vrag-Coromandel
Subject: Half yearly EC (Environment Clearance) Compliance Report - report
Attachments: EC_Compliance Report Part 1 of 2.pdf

Dear Sir,

Ref: E. No. 141313/834/2007-18 (1) dated 31.08.2007.

Please find the attached half yearly compliance report of Environment Clearance issued by MOEF for enhanced production capacity of nitrogen fertilizer plant from 2700 MT/yr to 3000 MT/yr.

Period of submission: - Oct'02 to Mar'06
Unit: - Coromandel International Limited, Visakhapatnam

Nageswari
Nageswari P
Manager-Environment
812040409

SAVE ENVIRONMENT SAVE LIFE

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**MoEF-EC-COMPLIANCE STATUS OF Environmental Clearance (EC) issued to
MoEF for enhanced production capacity of complex fertilizer plant from
3788 MTPO to 2880 MTPO**

Reference : Ref: J11015/214/2007-IA 9 (I) dt. 31st August, 2007
Period : For the period from Oct-2022 to March-2023

A.) SPECIFIC CONDITIONS:

S. NO	CONDITION	COMPLIANCE STATUS
i)	The expansion of the project shall be based on process improvement, technology innovation, improving on steam-hours maximization of equipment capacity and continuous supply of raw materials. No Sulphuric acid and phosphoric acid plant shall be installed for additional requirement of Sulphuric acid and phosphoric acid. Due to enhancement of production pollution load shall not increase from the existing load.	The Complex plant during its upgradation was done with below mentioned improvements and technology innovations :- • Usage of higher capacity pipe-reactor with improved technology. • Upgrading drives for Dryer, Bucket elevators, Installation of new piping, pre-heaters and higher efficiency scrubber nozzles. Also enhanced infrastructure to handle the additional quantity of raw materials, bulk and finished products. • No Sulphuric acid and phosphoric acid plant would be installed for additional requirement of Sulphuric acid and phosphoric acid. • Any shortfall of Sulphuric acid and phosphoric acid shall be purchased from either Indian suppliers or imported.
ii)	The project authorities shall install efficient scrubbing system to control fluoride emission and bag filters for dust control in phosphoric acid plant.	Installed, Fume scrubber at phosphoric acid plant to reduce the fluoride emissions and Bag filters at Rock-grinding Section to meet the norms specified by the statutory authorities.
iii)	Mult. stage scrubbing system shall be installed to control ammonia, fluoride and	Multi-stage (Four-stage) scrubbing system was incorporated for A &

Coromandel International Limited, Visakhapatnam

S. NO	CONDITION	COMPLIANCE STATUS
	suspended particulate matter in fertilizer plant.	S' Train in the year 2001 and for C-Train, in the year 2008, at installation stage. Presently, the emissions of ammonia and fluoride from all the stacks are within the limits specified by the statutory authorities. Monitoring the fluoride emissions and meeting the standard of 4 mg/Nm³ from the stack of phosphoric acid plant and reports are being submitted to APPCB. In case of emergency plant will shut down immediately. The gaseous emissions are being monitored on continuous basis with in house laboratory. Further, MoEF approved third party analysis is also being 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 is uploading to APPCB & CPCB websites through cloud server. SAP-1 & SAP-2 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. All the analyzers are connected to APPCB & CPCB websites.
iv)	The project authority shall install dust collection system in fertilizer bagging plant.	We implemented Pipe reactor technology for improving the granulation and reduce the dust

S. NO	CONDITION	COMPLIANCE STATUS
		met. We have additionally implemented product dust prevention system by bringing modifications & improvements in the manufacturing process. Additional product dust vents are engaged to remove the dust even before it reaches bagging plant. Product granulation aids (chemicals) are added to increase the granule strength as a result the product dust formation drastically reduced. We added de-dusting and scrubbing system for recovery of dust in the granulation plant. With the above actions we avoided dust formation and avoided installation of bag filters in bagging section. We installed AAO station and the values are well within the limits and the data is uploaded to APPCB website.
vi)	The Sulphuric Acid Plant shall be based on double conversion double absorption technology and anaerobically protected acid coolers shall be provided. Start-up scrubbers shall be installed in both Sulphuric acid plants to minimise SO₂ emission during start-up.	Installed alkali scrubbers in both the Sulphuric acid plants and SO₂ emissions are below the norms prescribed by APPCB.
vi)	The project authority shall install high efficiency scrubber nozzles, additional tall gas scrubber, improve the scrubber efficiency by optimizing the L/G ratio, install additional cyclones in scrubbing system, and install mist eliminators in scrubbers.	Installed higher efficiency scrubber nozzles, improved L/G ratio through installing higher capacity scrubber circulation pumps and standby cyclones kept in place.
vi)	Permission of the competent authority shall	No additional water is required from

S. NO	CONDITION	COMPLIANCE STATUS
	be obtained for draw of additional quantity of 250m ³ /d existing Talpudi and Meghadriguda reservoirs.	Municipal Corporation and existing quantities are adequate to meet additional requirement.
vi)	The gaseous emissions (SO ₂ , SO _x , NO _x , NH ₃ , P ₂ O ₅ fertilizer 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.	All gaseous emissions and particulate matter data from various process units are being monitored by third party and online stack. Data is being submitted to Ministry's regional office (APPCB/CPCB).
vii)	All the wastewaters generated from the various processes shall be recycled / reuse in the plant and zero discharge shall be maintained. The domestic wastewater shall be treated in septic tanks and treated waste shall be used for irrigation in the grounds.	Effluents from Sulfuric acid & Phosphoric acid are being treated in effluent treatment plant. Zero effluent discharge from complex fertilizer plant. Sewage treatment plant has been provided for domestic wastewater treatment and the treated water is used for irrigation.
viii)	The proponent shall not withdraw groundwater for the plant and if it requires, the permission from the competent authority CGWA / SGWB shall be obtained.	Not applicable. No Ground water withdrawal.
ix)	The company shall develop the greenbelt in atleast 25% land area to mitigate the effect of fugitive emissions and noise as per the guidelines CPCB.	Out of the 428 acres, the revised land area is 313 (after demarcating from VPT) and the green belt is developed in 123 acres area which is more than 39%. Hence Complied.
x)	The company shall implement - all the recommendations made in the Charter on Corporate Responsibility for Environmental Protection (CREP) for fertilizer industries.	All the recommendations are being complied Annexure-I

8) GENERAL CONDITIONS:

	CONDITION	COMPLIANCE STATUS
i)	The project authorities shall strictly adhere to the stipulations of the SPCB/State Government or any statutory body.	Agreed.
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 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.	No further expansion would be taken up without prior environment clearance.
iii)	At no time, the emissions shall exceed the prescribed levels. 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.	In case of any upset in the process resulting in increase of emissions, the plant is stopped immediately for taking necessary actions.
iv)	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the downwind direction as well as where maximum ground level concentrations are anticipated.	Installed three online monitoring AADM stations and connected to APPCB server. Ambient air quality is also being monitored through MoEF approved laboratory.
v)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubbed water shall be sent to ETP for further treatment.	Installed stacks to the scrubbers as per the CPCB guidelines. Scrubbing liquid generated in the complex plant is reused in the process. ETP provided to treat the effluent. In Phosphoric acid plant, the flue gas recovery is done converting it to Hydro-fluoric acid.
vi)	All the storage tanks will be under negative pressure to avoid any leakages. Breather valves, N ₂ blanketing and secondary condensers with trim chilling systems shall be provided for all the storage tanks to minimize evapor losses. All liquid raw material shall be stored in storage Tanks and Drums.	Installed atmospheric ammonia storage tanks to store ammonia. Ammonia sensors are located at various locations within the factory premises.
vii)	The company shall undertake following:	Installed grinding unit to recycle filter

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	CONDITION	COMPLIANCE STATUS
	Waste Minimization measures > Metering and control of quantities of active ingredients to minimize waste. > Reuse of by-products from the process as raw materials or as raw material substitutes in other processes. > Use of automated filling to minimize spillage.	cake into granulation plant Constructed acid recovery pits to reuse in the process Identified decoupling points and connected to cyclones. Water meters and energy meters provided to water lines and pollution control equipment. Installed pipe conveyors to transfer rock phosphate.
	> Use of "Close Feed" system into batch reactors. > Venting equipment through vapor recovery system. > Use of high-pressure hoses for equipment cleaning to reduce wastewater generation.	These conditions are not applicable to our industry.
vii)	Fugitive emissions in the work zone environment, product, and raw materials storage area shall be regularly monitored. The emissions shall conform to the limits imposed by the State Pollution Control Boards/Central Pollution Control Board.	It is being measured quarterly as per factories act 1948 Standards.
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 October, 1984 and January, 2000 and Hazardous Waste (Management and Handling) Rules, 1989, as amended from time to time. Authorization from the SPCCB shall be obtained for collection, treatment, storage, and disposal of hazardous wastes.	Hazardous waste authorization has been obtained from APPCB and hazardous waste management is being carried out as per the provisions.
x)	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, 1986 viz. 75 dBA (day time) and 70 dBA (night time).	Noise monitoring is being carried out and the noise levels are within the prescribed norms.

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	CONDITION	COMPLIANCE STATUS
vi)	The company shall develop rainwater harvesting structures to harvest the run off water for recharge of ground water.	Noted
vii)	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	Dedicated OHC is available within the factory premises with full time doctor availability. Regularly conducting Annual medical check-up for employees and conduct workmen according to Factories act
viii)	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) Four stage scrubbing system in complex plant to minimize ammonia emissions 2) Changeover to dry gypsum disposal system from wet disposal system. 3) Installed pipe conveyors to transfer raw sulfur, rock phosphate & product to minimize the dust pollution as well as spillages 4) Community welfare measures being taken as through CSR activities
ix)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA / EMP report.	Agreed.
x)	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.
xi)	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.	Complied
xii)	The Implementation of the project vis-a-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPCB / CPCB. A six monthly compliance status report shall be	Six monthly compliance reports are being submitted and made available on the company website.

Coromandel International Limited, Visakhapatnam

	CONDITION	COMPLIANCE STATUS
	submitted to monitoring agencies and shall be posted on the website of the Company	
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 SPCB/Committee and may also be seen at Website of the Ministry at http://samfor.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.	Advertised in prominent news papers in local language and also English, and copies were forwarded to Regional Office, MoEF, Bangalore and SPCB.
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 start of the project.	All the projects were completed by 2008-10.

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TEST REPORT

Test Report No. TLC/V/Lab/CH/12/1022

DATE: 11.10.22

Description of Test: Ambient Air quality Monitoring inside the CFI.
Name of the client: Comensal 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-I Station at the Top of Calcutta	AQ-II Station near HIGs	AQ-III Station Gate-13 (Near Begging shed)
PM _{2.5}	Minimum	33	38	35
	Maximum	42	48	42
	SP50th	38	44	40
	Average	37	39	33
PM ₁₀	Minimum	51	55	58
	Maximum	89	85	95
	SP50th	80	85	80
	Average	68	72	67
SO ₂	Minimum	0.18	0.29	7.9
	Maximum	25.4	26.3	23.2
	Average	15.1	1.7	12.6
	SP50th	15.5	11.9	13.5
NO ₂	Minimum	12.7	14.5	15.4
	Maximum	21.5	21.8	25.8
	SP50th	15.9	12.9	20.8
	Average	17.2	12.0	13.9
O ₃	Minimum	0.04mg/M ³	0.11mg/M ³	0.01 mg/M ³
	Maximum	0.04mg/M ³	0.14mg/M ³	0.04mg/M ³
	SP50th	0.04mg/M ³	0.08mg/M ³	0.04mg/M ³
	Average	0.04mg/M ³	0.06mg/M ³	0.04mg/M ³

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

For TEAM Lab and Consultants



Labs and Consultants

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TEST REPORT

6/02/12/2022

Test Report No. TL/C/V/En/KIL/12/1022

Description of Test: Ambient Air quality Monitoring inside the CFL
 Name of the client: Coramandel International Limited, Visakhapatnam
 Location of sampling: Station 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

Parameter		AAQ-1 Station at the Top of Chimney	AAQ-2 Station at near DG sets	AAQ-3 Station at Gate-13 (Near Shipping dock)
PM ₁₀	Maximum	32	38	31
	Maximum	42	48	40
	CFSLite	42	48	35
	Average	36	40	35
PM _{2.5}	Maximum	68	68	72
	Maximum	78	88	81
	CFSLite	78	88	71
	Average	71	79	71
NO _x	Maximum	14.2	14.1	13.5
	Maximum	24.9	25.7	14.3
	Maximum	24.9	25.7	14.3
	Average	13.8	13.9	13.2
SO ₂	Maximum	15.8	15.5	15.8
	Maximum	15.8	15.5	15.8
	Maximum	15.8	15.5	15.8
	Average	13.8	13.9	13.2
NH ₃	Maximum	0.08mg/M ³	0.08mg/M ³	0.08 mg/M ³
	Maximum	0.08mg/M ³	0.08mg/M ³	0.08mg/M ³
	Maximum	0.08mg/M ³	0.08mg/M ³	0.08mg/M ³
	Average	0.08mg/M ³	0.08mg/M ³	0.08mg/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

Test Report No. TLC/V/Env/CL/82/0222

01.02.2023

Description of Test: Ambient Air quality Monitoring inside the CPL
 Name of the client: Cyromandel International Limited, Visakhapatnam
 Location of sampling: Station 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

Parameter		AAQ-1 Status at the Top of Catalyst	AAQ-2 Status at new DG inlet	AAQ-3 Status at Gate -13 (near Sampling point)
PM ₁₀	Maximum	34	37	23
	Maximum	42	45	44
	SP ₁₀ (µg)	42	45	44
	Average	26	41	38
PM _{2.5}	Maximum	02	13	05
	Maximum	32	44	40
	SP _{2.5} (µg)	32	44	40
	Average	22	28	21
SO ₂	Maximum	14.5	21.3	14.5
	Maximum	21.3	25.3	22.2
	Average	15.3	24.4	16.2
	SP _{SO2}	21.3	25.3	22.2
NO ₂	Maximum	14.4	18.3	14.7
	Maximum	22.3	29.0	18.9
	SP _{NO2}	22.3	29.0	18.9
	Average	18.4	16.2	15.4
NH ₃	Maximum	0.05mg/m ³	0.05mg/m ³	0.01mg/m ³
	Maximum	0.25mg/m ³	0.06mg/m ³	0.01mg/m ³
	SP _{NH3}	0.05mg/m ³	0.06mg/m ³	0.01mg/m ³
	Average	0.05mg/m ³	0.03mg/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. TLC/CFM/120125

01.02.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Commercial International Limited, Visakhapatnam
 Location of sampling: Siteless 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

Parameter		AAQ-1 Station at the Top of Calverts	AAQ-2 Station near DG sets	AAQ-3 Station at Gate-03 (Near Bagging shed)
PM _{2.5}	Maximum	38	34	34
	Maximum	42	45	40
	95%ile	40	40	40
	Average	38	41	39
PM ₁₀	Maximum	67	72	54
	Maximum	81	84	68
	95%ile	81	80	68
	Average	72	79	72
SO ₂	Maximum	34.8	33.8	32.7
	Maximum	33.8	33.8	33.8
	Average	33.8	33.7	33.8
	95%ile	33.8	33.8	33.8
NO _x	Maximum	33.8	33.8	33.8
	Maximum	33.8	33.8	33.8
	95%ile	33.8	33.8	33.8
	Average	33.8	33.8	33.8
NH ₃	Maximum	8.12mg/M ³	8.12mg/M ³	8.12mg/M ³
	Maximum	8.12mg/M ³	8.12mg/M ³	8.12mg/M ³
	95%ile	8.12mg/M ³	8.12mg/M ³	8.12mg/M ³
	Average	8.12mg/M ³	8.12mg/M ³	8.12mg/M ³

All values are expressed in µg/m³
 except Ammonia

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TEST REPORT

Test Report No. TLOV/Eas/CIL/12/8013

04.02.2023

Description of Test: Ambient Air quality Monitoring inside the CPH.
Name of the client: Corusworld 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-1 Station at the Top of Column	AAQ-2 Station near PM unit	AAQ-3 Station at Gate -13 (Near Building plant)
PM _{2.5}	Maximum	31	25	36
	Minimum	24	22	25
	SP ₅ (µg)	44	44	47
	Average	28	24	30
	SP ₅ (µg)	41	35	38
PM ₁₀	Maximum	61	55	61
	Minimum	39	34	34
	SP ₁₀ (µg)	75	64	69
	Average	51	48	54
	SP ₁₀ (µg)	61	55	61
SO ₂	Maximum	11.5	11.2	11.6
	Minimum	10.8	10.7	10.8
	Average	11.0	10.9	11.2
	SP ₂ (µg)	24.8	24.3	24.8
	SP ₂ (µg)	11.5	11.2	11.6
NO ₂	Maximum	11.5	11.2	11.6
	Minimum	10.7	10.7	10.8
	Average	11.2	11.1	11.3
	SP ₂ (µg)	24.8	24.3	24.8
	SP ₂ (µg)	11.5	11.2	11.6
H ₂ S	Maximum	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³
	Minimum	0.0mg/M ³	0.0mg/M ³	0.0mg/M ³
	SP ₂ (µg)	0.0mg/M ³	0.0mg/M ³	0.0mg/M ³
	Average	0.0mg/M ³	0.0mg/M ³	0.0mg/M ³
	SP ₂ (µg)	0.0mg/M ³	0.0mg/M ³	0.0mg/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. TMLCV/En/ICB/W/MS23

01.01.04.2023

Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Ceyramandir International Limited, Visakhapatnam
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 Columns	AAQ-2 Station near BG area	AAQ-3 Station at Gate-13 (Near Waggling Road)
PM ₁₀	Maximum	36	31	31
	Maximum	36	41	41
	SP ₅ (hr)	28	42	41
	Average	34	35	37
PM _{2.5}	Maximum	65	69	65
	Maximum	71	78	78
	SP ₅ (hr)	70	78	78
	Average	45	70	71
SO ₂	Maximum	8.2	8.8	8.8
	Maximum	16.2	16.1	12.4
	Average	8.2	9.6	10.5
	SP ₅ (hr)	16.2	16.1	12.4
NO ₂	Maximum	12.8	12.2	12.5
	Maximum	13.2	14.4	17.2
	SP ₅ (hr)	13.8	14.8	17.8
	Average	12.8	13.8	14.4
NH ₃	Maximum	0.01 mg/m ³	0.01 mg/m ³	0.01 mg/m ³
	Maximum	0.01 mg/m ³	0.02 mg/m ³	0.01 mg/m ³
	SP ₅ (hr)	0.01 mg/m ³	0.02 mg/m ³	0.01 mg/m ³
	Average	0.01 mg/m ³	0.01 mg/m ³	0.01 mg/m ³

All values are expressed in µg/m³
except Ammonia

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TML/VE/CFL/161023

26.01.2023

Description of Test: Pesticide analysis

Name of the client: Carencorbi International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide	P- mg/L
1	16.10.2022	CFL - colony	0.1
2	*	Near I OP Gate	0.1
3	*	Near 7 th gate	0.2
4	*	B.T. Nalla	0.3
		1000500 Permissible limit	1.2
	Present		2M 400 P- U

For TEAM Labs and Consultants



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Test Report No. TLOV/Tas/CPL/14/1122

(18.11.2022)

Description of Test: Pesticide analysis

Name of the client: Cerecruel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of sample collection : As per details given

No	Date	Location of Pesticide	Conc. (µg/L)
1	26.11.2022	CEC - colony	0.55
2	"	Near OP Gate	0.55
3	"	Near 7 th gate	0.5
4	"	B.T.Nalla	0.8
		PS10908 Permissible limit	1.5
	Prostate		1.5 (mg/L)

For TEAM Labs and Consultants



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TEST REPORT

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

dt. 02.01.2023

Description of Test: Pesticide analysis

Name of the client: Caremandat International Limited, Visakhapatnam

Location of sampling: Pesticide as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide well	F- mg/L
1	26.12.2022	CFL - colony	0.3
2	"	North OF Gate	0.5
3	"	Near 7 th gate	0.5
4	"	B.Y. Naidu well	0.5
		IS33500 Permethrin tank	1.8
	Protocol		ISO 10647: D

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLA/Env/CPL/16/0123

41.02.02.2023

Description of Test: Petrol well analysis

Name of the client: Ceromandel 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	13.01.2023	CPL -utory	6.4
2	"	Near 4 CP Gate	6.5
3	"	Near 7 gate	0.4
4	"	R.T. Road	3.8
		ISO 9000 / Accredited by NABL	1.5
	Protocol		ISO 45001: 01

For TEAM Lab and Consultants



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TEST REPORT

Test Report No: TGL/CV/Env/CPL/06/0223

d.02.05.2023

Description of Test: **Fibre water analysis**

Name of the client: **Commercial 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	21.02.2023	CPL - colony	8.3
2	"	Near 4 O.P Gate	8.5
3	"	Near 1 st gate	0.8
4	"	B.T/Nakhi guduru	0.9
		IS (890) Permissible limit	1.5
	Protocol		50 upto 5.0

For TEAM Lab and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/OPW/01/CPL/080323

dt: 01.04.2023

Description of Test: Police wells - analytical

Name of the client: Coremandel International Limited, Vijethapattanam

Location of sampling: Stations - as per details given

Date of Sample collection : As per details given

No	Date	Location of Police well	F, mg/L
1	21.01.2023	CPL - colony	0.3
2	"	Near OP Gate	0.5
3	"	Near 7 th gate	0.4
4	"	CRC	0.8
		D/DSE Permissible limit	1.5
	Protocol		100 ppm F-0

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TEST REPORT

Test Report No. TLE/W/air/CFL/11/1021

06/11/2011

Description of Test:

Source Emissions Monitoring with the CFL

Name of the client:

Carnegie Mellon University, Pittsburgh

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

POLYCYCLIC AROMATIC HYDROCARBON EMISSION MONITORING FOR THE MONTH OF OCTOBER-2011

S.No.	Stack identification	Flow rate m ³ /hr	parameters	Conc. mg/NM ³	ATPS Standard Limit
1	Complex A	10442	Particulate matter	32	45 mg/NM ³
			NOx (NO)	75	102.4 mg/NM ³
			Fluoride	1.2	44 mg/NM ³
2	Complex B	18018	Particulate matter	28	45 mg/NM ³
			NOx (NO)	55	102.4 mg/NM ³
			Fluoride	0.2	4.3 mg/NM ³
3	Complex C	18187	Particulate matter	38	45 mg/NM ³
			NOx (NO)	80	102.4 mg/NM ³
			Fluoride	1.5	42 mg/NM ³
4	Solid waste acid plant I	97381	Sulphur dioxide	0.25 kg/NM ³ (180 mg/NM ³)	1 kg/NM ³
			Sulphur trioxide	30	0.15 kg/NM ³
			Acid mist	60	15 mg/NM ³
5	Sulphuric acid plant II	21749	Sulphur dioxide	0.040 kg/NM ³ (27 mg/NM ³)	0.05 kg/NM ³
			Sulphur trioxide	50	0.20 kg/NM ³
			Acid mist	40	20 mg/NM ³
6	Phosphoric acid plant I	16889	Particulate matter	21	30 mg/NM ³
			Fluoride	0.5	20 mg/NM ³
			NOx (NO)	25	30 mg/NM ³
7	Acid grinding unit (Ox)	1760	Particulate matter	25	30 mg/NM ³
			Total Fluoride	1.5	25 mg/NM ³
			NOx (NO)	25	30 mg/NM ³
8	Wheat Berls	1200	Particulate matter	25	30 mg/NM ³
			NOx (NO)	25	30 mg/NM ³
			Fluoride	0.5	20 mg/NM ³
9	Phosphate acid plant II	50300	Particulate matter	25	30 mg/NM ³
			Total Fluoride	4.0	30 mg/NM ³
			NOx (NO)	25	30 mg/NM ³
10	Acid grinding unit (Ox)	11370	Particulate matter	25	30 mg/NM ³
			Total Fluoride	4.7	30 mg/NM ³

For TEAM Labs and Consultants



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TEST REPORT

06/02/21/2012

Test Report No. TL/CV/Lab/CH/110122

Description of Test:

Source Emission Monitoring Levels the CPE

Name of the client:

Caracasado Industrial Limited, Venezuela

Location of sampling: stacks attached to respective plants in petrochemical

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF NOVEMBER 2012

Site	Stack attached to	Flow rate Nm ³ /hr	parameters	Unit mg/NM ³	ATTC standard Limit
1	Complex A	17000	Particulate matter	25	45 mg/NM ³
			Ammonia	10	105.8 mg/NM ³
			Fluoride	1.2	1.7 mg/NM ³
2	Complex B	18000	Particulate matter	20	45 mg/NM ³
			Ammonia	10	105.8 mg/NM ³
			Fluoride	1.0	1.4 mg/NM ³
3	Complex C	18000	Particulate matter	19	45 mg/NM ³
			Ammonia	10	105.8 mg/NM ³
			Fluoride	1.0	1.4 mg/NM ³
4	Sulphuric acid plant-I	9100	Sulphur dioxide	11400 g/NM ³ (114 mg/NM ³)	1 kg/MT
			Sulphur trioxide	50	1.0 mg/NM ³
			acid mist	70	20 mg/NM ³
			acid mist	70	0.05 kg/MT
5	Sulphuric acid plant-II	10000	Sulphur dioxide	10000 g/NM ³ (100 mg/NM ³)	1 kg/MT
			Sulphur trioxide	50	1.0 mg/NM ³
			acid mist	70	20 mg/NM ³
			acid mist	70	0.05 kg/MT
6	Phosphate acid plant-I	11000	Particulate matter	25	45 mg/NM ³
			Fluoride	1.2	1.7 mg/NM ³
			Phosphate	20	10 mg/NM ³
7	Rock grinding unit (Dry)	10000	Particulate matter	20	45 mg/NM ³
			Total Fluoride	1.4	20 mg/NM ³
			Fluoride	1.2	1.7 mg/NM ³
8	Waste Boiler	11000	Particulate matter	25	45 mg/NM ³
			Fluoride	1.2	1.7 mg/NM ³
			Phosphate	20	10 mg/NM ³
9	Fluorine acid plant-I	10000	Particulate matter	25	45 mg/NM ³
			Total Fluoride	1.4	20 mg/NM ³
			Fluoride	1.2	1.7 mg/NM ³
10	Rock grinding unit (Wet)	11000	Particulate matter	25	45 mg/NM ³
			Total Fluoride	1.4	20 mg/NM ³
			Fluoride	1.2	1.7 mg/NM ³

For TEAM Labs and Consultants

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TEST REPORT

Test Report No. TEL/VIKAR/CB/11/223

26.03.2023

Description of Test:

Source Emission Monitoring inside the CPL

Name of the client:

Carapondel International Limited, Visakhapatnam

Location of sampling: stacks attached to storage silos as per details given

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

S.No.	Test conducted at	Flow rate kg/hr	parameter	Conc. mg/N ²	effluent limit value
1	Sample 1	1245	Particulate matter	35	45 mg/N ²
			Sulphur	25	35 mg/N ²
			Fluoride	12	25 mg/N ²
2	Sample 2	1250	Particulate matter	32	45 mg/N ²
			Sulphur	22	35 mg/N ²
			Fluoride	11	25 mg/N ²
3	Sample 3	1240	Particulate matter	34	45 mg/N ²
			Sulphur	24	35 mg/N ²
			Fluoride	12	25 mg/N ²
4	Sample 4 and plant 1	1255	Sulphur dioxide	0.225 kg/hr (1250 mg/N ²)	0.3 kg/hr
			Sulphur trioxide	35	0.2 kg/hr
			acid gas	35	25 mg/N ²
5	Sample 5 and plant 2	1260	Sulphur dioxide	0.225 kg/hr (1250 mg/N ²)	0.3 kg/hr
			Sulphur trioxide	35	0.2 kg/hr
			acid gas	35	25 mg/N ²
6	Sample 6 and plant 3	1265	Particulate matter	33	45 mg/N ²
			Sulphur	23	35 mg/N ²
			Fluoride	11	25 mg/N ²
7	Stack grinding unit (SAG)	1270	Particulate matter	36	45 mg/N ²
			Total dust 25	12	25 mg/N ²
			Fluoride	12	25 mg/N ²
8	Waste boiler	1275	Particulate matter	34	45 mg/N ²
			Sulphur	24	35 mg/N ²
			Fluoride	12	25 mg/N ²
9	Sample 9 and plant 4	1280	Particulate matter	35	45 mg/N ²
			Sulphur	25	35 mg/N ²
			Fluoride	12	25 mg/N ²
10	Stack grinding unit (SAG)	1285	Particulate matter	37	45 mg/N ²
			Total dust 25	12	25 mg/N ²
			Fluoride	12	25 mg/N ²

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TLR/0094/CBL/019033

01.02.2023

Description of Test:

Source Emission Monitoring inside the CPL

Name of the client:

Covosund International Limited, Westinghouse

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	parameters	Conc. mg/Nm ³	APPCB standard Limit
1	Complex A	164197	Particulate matter	21	45 mg/Nm ³
			Sulphur dioxide	82	185.2 mg/Nm ³
			Fluoride	1.2	4.8 mg/Nm ³
2	Complex B	148002	Particulate matter	38	45 mg/Nm ³
			Sulphur dioxide	200	185.2 mg/Nm ³
			Fluoride	6.9	4.8 mg/Nm ³
3	Complex C	178111	Particulate matter	31	45 mg/Nm ³
			Sulphur dioxide	200	185.2 mg/Nm ³
			Fluoride	1.2	4.8 mg/Nm ³
4	Sulphuric acid plant-1	87671	Sulphur dioxide	6.14 mg/Nm ³ (102 mg/Nm ³)	1 mg/Nm ³
			Sulphur trioxide	50	0.30 mg/Nm ³
			Acid mist	50	20 mg/Nm ³
			Acid gas	50	20 mg/Nm ³
5	Sulphuric acid plant-II	11713	Sulphur dioxide	6.08 mg/Nm ³ (102 mg/Nm ³)	1 mg/Nm ³
			Sulphur trioxide	50	0.30 mg/Nm ³
			Acid mist	50	20 mg/Nm ³
			Acid gas	50	20 mg/Nm ³
6	Phosphate acid plant-I	148788	Particulate matter	18	28 mg/Nm ³
			Fluoride	1.2	28 mg/Nm ³
			Total Fluoride	1.2	28 mg/Nm ³
7	Rock grinding unit (RA)	18811	Particulate matter	18	28 mg/Nm ³
8	Wheel loader	1832	Particulate matter	34	117 mg/Nm ³
9	Phosphate acid plant-2	15814	Particulate matter	21	45 mg/Nm ³
			Total Fluoride	1.2	28 mg/Nm ³
			Particulate matter	21	28 mg/Nm ³
10	Rock grinding unit (New)	1346	Particulate matter	21	28 mg/Nm ³
			Total Fluoride	1.2	28 mg/Nm ³

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. T/CN/Ran/CL/100221

04.02.2023

Description of Test:

Heavy Metals Monitoring inside the CPE

Name of the client:

Commercial International Limited, Yashwanthpetam

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

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF FEBRUARY 2023

S.No.	Stack attached to	Flow rate Nm ³ /hr	parameter	Conc. mg/m ³	APPC Standard Limit
1	Complex A	14000	Perchloro oxide	20	45 mg/m ³
			Hydrogen fluoride	40	100 mg/m ³
			Fluoride	14	4.5 mg/m ³
2	Complex B	11000	Perchloro oxide	10	45 mg/m ³
			Hydrogen fluoride	20	100 mg/m ³
			Fluoride	12	4.5 mg/m ³
3	Complex C	10000	Perchloro oxide	10	45 mg/m ³
			Hydrogen fluoride	20	100 mg/m ³
			Fluoride	12	4.5 mg/m ³
4	Sulphuric acid plant I	1000	Sulphur dioxide (20mg/m ³)	0.100 kg/m ³	1 kg/m ³
			Sulphur trioxide	10	0.20 kg/m ³
			acid plant	10	10 mg/m ³
5	Sulphuric acid plant II	1000	Sulphur dioxide (20mg/m ³)	0.100 kg/m ³	0.40 kg/m ³
			Sulphur trioxide	10	0.20 kg/m ³
			acid plant	10	20 mg/m ³
6	Phosphoric acid plant I	10000	Perchloro oxide	10	45 mg/m ³
			Hydrogen fluoride	1.0	20 mg/m ³
			Fluoride	14	4.5 mg/m ³
7	Rock grinding unit (R1)	1000	Perchloro oxide	1.0	45 mg/m ³
			Total Fluorine	1.0	20 mg/m ³
			Hydrogen fluoride	1.0	110 mg/m ³
8	Phosphoric acid plant II	1000	Perchloro oxide	1.0	45 mg/m ³
			Total Fluorine	1.0	20 mg/m ³
			Hydrogen fluoride	1.0	110 mg/m ³
9	Rock grinding unit (R2)	1000	Perchloro oxide	1.0	45 mg/m ³
			Total Fluorine	1.0	20 mg/m ³
			Hydrogen fluoride	1.0	110 mg/m ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TFC/V/Kav/CH/151022

16.02.2022

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: 21.08.2022

NO	Location of well	pH	PO4 mg/l	Fe mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahalli colony- No.1	7.2	Nil	0.2	Nil
2	Kamalahalli 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	Mulugala No.1	7.6	Nil	0.2	Nil
6	Mulugala No.2	7.5	Nil	0.3	Nil
7	Mulugala No.5	7.8	Nil	0.3	Nil
8	Godiparada (Jhils)	7.7	Nil	0.2	Nil
	Present	IS-2021 Part 31:2013	APPC/0800	541 4501 F D	APPC/0800C

For TEAM Labs and Consultants



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TEST REPORT

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

06.12.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Commandat 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 Nitrogen mg/l
1	Kamalahalli colony- No.1	7.6	Nil	0.3	Nil
2	Kamalahalli colony- No.2	7.3	Nil	0.2	Nil
3	Veduramangalam-1	7.5	Nil	0.2	Nil
4	Veduramangalam-2	7.6	Nil	0.2	Nil
5	Malagada No.1	7.6	Nil	0.3	Nil
6	Malagada No.2	7.7	Nil	0.3	Nil
7	Malagada No.3	7.4	Nil	0.2	Nil
8	Kodiparada (ditch)	7.6	Nil	0.2	Nil
	Present	IS:2025 Part 11-190	APHA5140	SP 4500 F- D	APHA500C

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No: TLC/ENV/CL/01/01/10

06.07.2023

Description of Test: Surrounding village with Ground water analysis

Name of the client: Commanded International Limited, Visakhapatnam

Location of sampling: Surface as per details given

Date of sample collection: 26.11.2022

NO	Location of well	pH	FO4 mg/l	F- mg/l	Ammonia Nitrogen mg/l
1	Kamalahalli colony- No.1	7.5	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.5	Nil	0.3	Nil
3	Yeduruvaripalem-1	7.5	Nil	0.2	Nil
4	Yeduruvaripalem-2	7.4	Nil	0.3	Nil
5	Malagada No.1	7.6	Nil	0.2	Nil
6	Malagada No.2	7.5	Nil	0.3	Nil
7	Malagada No.3	7.4	Nil	0.3	Nil
8	Kodipadala drishu Frontal	8.025 Part (1.798)	47514.8500	520 4000 P- 0	APDA420C

For TEAM Lab and Consultants

Lab and Consultants

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TEST REPORT

Test Report No. TLC/NTe/CDL/158122

01.01.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Commandat International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 18.09.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia & Nitrogen mg/l
1	Koteswari colony- No.1	7.8	Nil	0.2	Nil
2	Koteswari colony- No.2	7.3	Nil	0.2	Nil
3	Yeduruvasipalem-1	7.7	Nil	0.2	Nil
4	Yeduruvasipalem-2	7.5	Nil	0.2	Nil
5	Malagada No.1	7.6	Nil	0.2	Nil
6	Malagada No.2	7.7	Nil	0.2	Nil
7	Malagada No.3	7.4	Nil	0.2	Nil
8	Kediyasala dikes	7.3	Nil	0.2	Nil
	- Present	IS: 3025 Part 41-1983	APHA/9000	SM 4500 F- 6	APHA/9000

For TEAM Lab and Consultants.



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TEST REPORT

Test Report No. TLCV/Eaw/CIL/15/0223

06.02.2023

Description of Test: Yarrasaflag village wells Ground water analysis

Name of the client: Ceramond International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 27.02.2023

SID	Location of well	pH	PC14 mg/l	F- mg/l	Ammonia + Nitrogen mg/l
1	Kamalahalli rukun- No.1	7.5	NB	0.2	NB
2	Kamalahalli rukun- No.2	7.6	NB	0.2	NB
3	Yeduru singaiah-1	7.5	NB	0.3	NB
4	Yeduru singaiah-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	Kodiparlaiah dibihi	7.2	NB	0.3	NB
	Present	0.0025 Part 10-1000	APHA 10000	NB 0.0010- 0	APHA 10000

For TEAM Labs and Consultants



TEST REPORT

Test Report No./TLC/V/Enr/CIL/09/0322

dt:01.04.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Core world International Limited, Virudhachalam

Location of sampling: Stations as per details given

Date of Sample collection: 14.03.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia / Nitrogen mg/l
1	Kannadavari colony- No.1	7.6	Nd	0.2	Nd
2	Kannadavari colony- No.2	7.7	Nd	0.2	Nd
3	Yoharavangalam-1	7.7	Nd	0.2	Nd
4	Yoharavangalam-2	7.7	Nd	0.2	Nd
5	Mudugala No.1	7.8	Nd	0.2	Nd
6	Mudugala No.2	7.8	Nd	0.2	Nd
7	Mudugala No.3	7.8	Nd	0.2	Nd
8	Kudiyandala ditta	7.6	Nd	0.2	Nd
	Prepared	IL3025 For 11/1982	GP11A/0040	YM 000 P. B	AP04A/006

For TEAM Labs and Consultants



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ANML Accredited Laboratory

TEST REPORT

Test Report No. TLR/ANML/CFR/28/H02

dt. 02.11.2022

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

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 OCTOBER-2022

Date of monitoring	Time	PM ₁₀ Limit 60 $\mu\text{g}/\text{m}^3$	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 09.00 hrs	42	79	15.5	11.0

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

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TEST REPORT

Test Report No. TLC/V/Env/CFL/28/11/22

dt. 02.12.2022

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

Name of the client: Curremand International Limited, Visakhapatnam

Location of sampling: Near Wharf

How 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 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
28.11.2022 To 29.11.2022	09.00 to 09.00 hrs	40	87	14.1	18.9

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

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ANIL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/NOE/CFU/001/222

01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carousell of International Limited, Vasukapetnam

Location of sampling: Near Ward

Date of Collection: As per details Given

Analysis Report for the Month of DECEMBER-2022

Date of monitoring	Time	$PM_{2.5}$ Limit 60 $\mu g/m^3$	PM_{10} Limit 100 $\mu g/m^3$	SO_2 Limit 60 $\mu g/m^3$	NO_2 Limit 90 $\mu g/m^3$
31.12.2022 To 01.01.2023	09.00 hrs 03.00 hrs	42	82	55.6	19.8

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

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TEST REPORT

Test Report No. TLC/V/Ena/CPL/28/0123

dt. 01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Comcaasatel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Ambient Report for the Month of JANUARY 2023

Date of monitoring	Time	PM ₁₀ Limit 50 $\mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
28.01.2023 To 29.01.2023	08.00 to 09.00 hrs	49	18	14.2	18.3

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

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PA. (O) 040-23749555 / 23749516, Fax: 040-23749552, 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/VIE/CSFL089223****01.01.2023**Description of Test: **Ambient Air Quality Monitoring outside the CFL**Name of the client: **Command International Limited, Vakkhapatnam**Location of sampling: **Door Work**Date of Collection: **As per details Given****analysis Report for the Month of FEBRUARY 2023**

Date of monitoring	Time	PM ₁₀ 12 Limit 90 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
18.01.2023 To 19.01.2023	08.00 to 18.00 hrs	38	89	14.2	21.5

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

For TEAM Lab and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLA/CV/Env/CFL/200223

dt.01.04.2023

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

Name of the client: Corewood International Limited, Visakhapatnam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analysis Report for the Month of MARCH-2023

Date of monitoring	Time	PM ₁₀ Limit 40 $\mu\text{g}/\text{m}^3$	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 $\mu\text{g}/\text{m}^3$
25.03.2023 To 26.03.2023	09.00 to 09.00 hrs	34	71	13.2	18.8

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

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Test Report No: TL/CV/Env/CIL/13/1822

06.02.2022

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

Name of the client: Carmanand International Limited, Visakhapatnam

Location of sampling: Mangalagiri

Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-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 ₂ Limit 80 $\mu\text{g}/\text{m}^3$
05.10.2021	14	48	7.5	9.0
06.10.2021	16	42	7.1	9.0
11.10.2021	18	45	8.2	11.2
13.10.2021	24	55	9.5	13.5
17.10.2021	26	58	9.3	10.0
19.10.2021	30	60	11.8	12.2
25.10.2021	36	69	16.3	18.3
Standard	Good with, CFCL level	ISIRI PART 25 -2006	ISIRI PART 1 -2001	ISIRI PART 6 -2004

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

For TEAM Lab and Consultants



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TEST REPORT

Test Report No. TLLCN/Kas/CH/740322

04.02.2022

Description of Test: Ambient Air Quality Monitoring (outside the CPL)
 Name of the client: Coimbatore International District, Visakhapatnam
 Location of sampling: Gollapudi
 Date of Collection: As per details given

Analysis Report for the Month of OCTOBER 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 $\mu\text{g}/\text{m}^3$
03.10.2021	28	45	8.5	10.6
06.10.2021	35	49	7.8	9.9
13.10.2021	18	42	9.2	10.9
15.10.2021	23	50	9.2	11.6
17.10.2021	24	52	9.5	11.2
19.10.2021	26	55	9.8	11.4
25.10.2021	30	48	17.5	10.8
Frequency	Gravimetric CPC as per	IS402 PART 3 - 2006	IS1910 PART 3 - 2006	IS5521 PART 3 - 2006

For TEAM Labs and Consultants



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TEST REPORT

40.02.12.2022

Test Report No: TLA/VAL/Env/CHE/13/1122

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

Name of the client: Cammandel International Limited, Visakhapatnam

Location of sampling: Miyaguda

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-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 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2022	20	61	8.8	18.6
05.11.2022	24	48	9.0	13.5
07.11.2022	28	42	8.8	12.5
09.11.2022	26	54	10.2	15.5
14.11.2022	28	50	9.8	12.7
18.11.2022	31	62	10.8	14.7
22.11.2022	30	58	10.0	13.5
Protocol	Limit status, CPCB 2009	2015 PM10- 2 - 2009	2015 PM10- 2 - 2009	2015 PM10- 2 - 2009

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. TQC/V/Lab/CIL/147122

42-11-2022

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

Name of the client: Corusworld International Limited, Visakhapatnam

Location of sampling: Gollapalem

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 160 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.11.2022	22	49	9.0	11.5
08.11.2022	24	52	8.8	13.8
07.11.2022	25	54	9.2	12.0
09.11.2022	28	84	8.5	10.2
14.11.2022	28	58	14.2	14.7
18.11.2022	27	24	16.4	15.5
22.11.2022	31	40	9.8	13.5
Protocol	Gravimetric CPC Based	IS 1811 PART- 2 - 2005	IS 1812 PART- 2 - 2005	IS 1813 PART- 2 - 2005

For TEAM Labs and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No: T/C/AN/Ex/CBL/140322

01.01.2023

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

Name of the client: Coromandel International Limited, Visakhapatnam

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 60 µg/m ³	PM10 Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO ₂ Limit 80 µg/m ³
05.12.2022	26	45	9.8	10.8
08.12.2022	25	50	9.0	11.5
13.12.2022	27	54	9.0	12.4
16.12.2022	28	65	9.1	11.7
19.12.2022	30	55	10.7	13.8
20.12.2022	30	54	9.5	13.6
23.12.2022	30	56	9.8	11.8
Prepared	Greenwala, OPEC used	ISSUES PART- 20-2026	ISSUES PART- 2-2020	ISSUES PART- 6-2024

For TEAM Lab and Consultants

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ANML, Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Lab/CIL/13/1223

dt. 30.01.2023

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

Name of the client: Corussteel International Limited, Visakhapatnam

Location of sampling: Mahagula

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER 2022

Date of monitoring	PM2.5 Limit 48 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
25.12.2022	24	51	9.2	11.9
26.12.2022	26	52	9.7	12.4
27.12.2022	24	50	9.9	11.7
28.12.2022	27	54	10.5	12.2
29.12.2022	25	52	10.1	12.2
30.12.2022	32	65	10.4	13.8
31.12.2022	29	58	9.8	12.7
Preload	Gravimetric, CPC method	ISO182 PART-1 2 : 2000	ISO161 PART-1 2 : 2000	ISO182 PART-1 2 : 2000

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

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ISO 9001 Accredited Laboratory**TEST REPORT**

Test Report No: TLC/VE/CIL/149123

@ 01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Commercial International Limited, Vashikapuram

Location of sampling: Gallaipalem

Date of Collection: As per date is given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	PM2.5 Limit 90 $\mu\text{g}/\text{m}^3$	PM10 Limit 180 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 90 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 90 $\mu\text{g}/\text{m}^3$
07.01.2023	18	42	7.7	9.9
08.01.2023	22	56	6.8	12.8
09.01.2023	26	54	6.2	13.5
11.01.2023	39	62	11.5	16.5
18.01.2023	32	64	15.8	17.5
29.01.2023	23	62	16.3	14.7
31.01.2023	28	58	10.8	13.6
Protocol	Gravimetric, CPCB method	ISO14701 PART 2 - 2004	ISO14701 PART 2 - 2004	ISO14701 PART 2 - 2004

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TEST REPORT

Test Report No. TLC/ENV/20/CIL/13/0123

09.01.2023

Description of Test:

Ambient Air Quality Monitoring outside the CPL

Name of the client:

Coromandel International Limited, Visakhapatnam

Location of sampling:

Malapada

Date of Collection:

As per details given

Ambient Report for the Month of JANUARY 2023

Date of monitoring	PM _{10.0} Limit 60 µg/m ³	PM _{10.0} Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO ₂ Limit 80 µg/m ³
03.01.2023	35	55	8.4	12.9
05.01.2023	28	58	10.2	18.3
07.01.2023	36	55	9.9	12.8
11.01.2023	39	89	10.7	15.8
18.01.2023	24	52	9.9	13.3
20.01.2023	31	62	10.9	15.1
24.01.2023	29	55	10.8	13.3
Protocol	Gravimetric, CPC method	ISIRI PART- 32 -2004	ISIRI PART- 2 -2004	ISIRI PART- 4 -2004

All values are given in µg/m³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLA/CH/Env/CH/149323

dt:02.03.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Crossandil International Limited, Visakhapatnam

Location of sampling: Cellalapelem

Date of Collection: As per details given

Analysis Report For the Month of FEBRUARY 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 ₂ Limit 80 $\mu\text{g}/\text{m}^3$
02.02.2023	28	44	8.5	13.6
04.02.2023	24	58	9.2	17.8
06.02.2023	27	60	10.4	15.6
08.02.2023	32	68	10.8	16.9
11.02.2023	34	65	11.5	15.5
14.02.2023	22	55	10.8	16.6
17.02.2023	28	63	9.1	18.2
Protocol	Gravimetric, CPC Based	DRIVE PASS 21-2000	DRIVE PASS 2-2001	DRIVE PASS 9-2004

For TEAM Labs and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/Env/CTL/13/0023

dt.02.03.2023

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

Name of the client: Carsonsnet International Limited, Vadakkupattam

Location of sampling: Madhyala

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY 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 _x Limit 80 $\mu\text{g}/\text{m}^3$
01.02.2023	24	52	9.0	14.4
04.02.2023	25	54	10.3	16.6
06.02.2023	26	58	11.8	17.6
08.02.2023	31	60	11.2	18.2
14.02.2023	26	57	9.7	14.9
16.02.2023	30	60	10.2	17.5
21.02.2023	27	58	9.5	14.7
Presented	Green sheet, CPL seal	ISSUE PART- 12 -2006	ISSUE PART- 1 -2006	ISSUE PART- 4 -2006

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/V/Terr/CIL/000022

dt: 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commandel International Limited, Vasudhavanagar

Location of sampling: Gullabapalem

Date of Collection: As per details given

Analysis Performed for the Month of MARCH 2023

Date of monitoring	PM2.5 Limit 40 µg/m ³	PM10 Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO ₂ Limit 80 µg/m ³
07.03.2023	21	41	7.2	10.2
09.03.2023	23	45	7.9	10.6
13.03.2023	24	50	8.5	13.3
15.03.2023	30	57	8.3	12.8
20.03.2023	31	62	9.8	12.7
22.03.2023	22	48	7.9	11.6
27.03.2023	25	54	8.2	12.3
Performed	Over 1000, CPCB (2008)	ISO1101 PART 11 - 2008	ISO1101 PART 11 - 2008	ISO1101 PART 11 - 2008

For TEAM Labs and Consultants



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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Gov. New Delhi
NABL Accredited Laboratory

TEST REPORT

Test Report No.TL/CV/En/CBL/070323

dt:03.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coremodel International Limited, Visakhapatnam

Location of sampling: Madagada

Date of Collection: As per details given

Analysis Report for the Month of MARCH 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 ₂ Limit 80 $\mu\text{g}/\text{m}^3$
07.03.2023	22	47	7.5	9.9
09.03.2023	24	50	8.0	11.0
13.03.2023	25	55	8.4	13.2
15.03.2023	30	60	8.1	13.5
16.03.2023	28	58	8.8	13.2
22.03.2023	30	60	9.3	12.8
27.03.2023	28	50	8.2	11.6
Protocol	Gravimetric, (CPCB-ISO)	HHHL PART- 12-2000	HHHL PART- 1-2000	HHHL PART- 4-2004

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

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