

Coromandel International Limited, Visakhapatnam

**MoEF-EC COMPLIANCE STATUS OF Environmental Clearance (EC) Issued by
MoEF, for enhanced production capacity of Phosphoric acid plant from 600 MTPD
to 795 MTPD**

Reference : F.No. J-11011/000/2006-JA 3 (3) dated 12.06.2007

(For the period from Apr-2022 to Sep-2022)

A. SPECIFIC CONDITIONS:

S.No.	Specific conditions	Compliance status
1.	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Monitoring of HF shall be carried out along with other parameters. At no time, the emission levels shall go beyond the stipulated standards. In the event of failure of pollution control system(s) adopted by the unit, the respective unit shall not be restarted until the control measures are rectified to achieve the desired efficiency.	Monitoring the fluoride emissions and meeting the standard of 4 mg/Nm³ from the stack of phosphoric acid plant. All and reports are being submitted to APPCB. In case of emergency plant will shut immediately. 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 APCCB & CPCB websites. SAP-I & SAP-II installed with online stack analyzer and connected to CPCB & APCCB 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 connected to APCCB & CPCB websites.

Coromandel International Limited, Visakhapatnam

S.No.	Specific conditions	Compliance status
I.	Ambient air quality monitoring stations shall be set up in the downwind direction as well as where maximum ground level concentration is anticipated in consultation with the APPCB and data submitted to the Ministry's Regional Office at Bangalore six monthly and APPCB quarterly along with statistical analysis.	installed three online monitoring AQM stations and connected to APPCB server. Ambient air quality is also being monitored through MoEF approved laboratory and AAQ data is submitted to MoEFDO & APPCB regularly.
II.	Total water requirement will be met from Municipal Water supply. No effluent will be generated from water-soluble fertilizer plant since entire quantity of water will be recycled in the process. Liquid effluent from cooling tower blow down will be recycled and reused in phosphoric acid / granulation plants and in case of no consumption, it will be sent to ETP. Treated effluent will be disposed off into the sea at a distance of 5.0 Km through a channel.	- No additional water required. Municipal Water supply quantity remains same. - Effluent generated from Water Soluble Fertiliser plant is being recycled. - Cooling Tower blow down water will be reused in the process. - Once through cooling is discharged into sea at a distance of more than 5 Km through a channel. - Effluent Treatment Plant in operation
IV.	Prior clearance under the Coastal Regulation Zone (CRZ) shall be obtained from the State / Central Govt. for the disposal of treated effluent into the Sea.	Coromandel does not discharge any treated effluent directly into the sea. Coromandel has been permitted to discharge its treated effluents from ETP and return cooling water in a common channel provided by the Visakh Port authorities since the plant was established in 1967 (prior to CRZ rules 1981) Coromandel discharge point is approx. 02 km away from the Meghadragadda

Coromandel International Limited, Visakhapatnam

S.No.	Specific conditions	Compliance status
		over flow channel. All other industries (HPCL, APCL, IOCL and BPCL) are also discharging into common channel. Hence CRZ clearance is not applicable to the Coromandel International Ltd.
v.	Regular monitoring of ground water by installing Piezometric wells around the guard pond and sludge disposal site shall be periodically monitored and reports submitted to Ministry's Regional Office at Bangalore, CPCB and APPOB.	Ground water monitoring through 5 Piezo wells and 2 Bore wells located in and around the guard pond and reports furnishing to APPOB regularly. Find enclosed Annexure-91 Environment monitoring reports for your reference.
vi.	Gypsum produced as a by-product from phosphoric acid plant shall be utilized in cement industries as a retarder as well as soil conditioner for agricultural use. Waste oil shall be sold to the authorized recyclers / preprocessors.	Gypsum is being disposed to various nearby industries, predominantly Cement Industries and also for agricultural purpose. Waste oil is being disposed to CPCB approved recyclers.
vii.	The company shall adopt rainwater-harvesting measures to reduce requirement of the fresh water.	Being explored
viii.	Green belt shall be developed in 32 % area and properly maintained to mitigate the effects of fugitive emissions all around the plant as per the Central Pollution Control Board guidelines.	Out of the 428 acres, the revised land area is 313 (after demarking from VPT) and the green belt is developed 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.	Complied

B. GENERAL CONDITIONS :-

S.No.	General conditions	Compliance status
i.	The project authorities must strictly adhere to the stipulations made by the A.P. Pollution Control Board (APPCB) and the State Government.	Agreed.
ii.	No further expansion/modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests.	Prior approval will be taken from statutory body/ MOEF.
iii.	The project authorities must strictly comply with the rules and regulations with regard to handling and disposal of hazardous wastes in accordance with the Hazardous Wastes (Management & Handling) Rules, 2003.	Maintaining FORM-1, FORM-4 and FORM-10 for storage and transfer of hazardous waste.
iv.	The project proponent shall also comply with all the safeguards recommended in the EIA/EMP Report.	Agreed.
v.	The project authorities will set up a separate environmental management cell for effective implementation of all the above stipulations under control of Senior Executive.	Environmental Management Cell is present headed by AGM-ESH reporting directly 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.

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S.No.	General conditions	Compliance status
vi.	Adequate funds towards capital cost and recurring expenditure/annum shall be earmarked and judiciously utilized to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government and a time bound implementation schedule for all the conditions stipulated herein shall be submitted. The funds so provided shall not be diverted for any other purposes.	Funds are provided through internal fund allocation systems.
vii.	The Regional Office of this Ministry at Bangalore / Central Pollution Control Board / APPCB will monitor the stipulated conditions. A six monthly compliance status report and the monitored data along with statistical interpretation shall be submitted to monitoring agencies regularly.	Half yearly reports being sent to APPCB and regional Office .
viii.	The Project Proponent shall inform the public that the project has been accorded environmental clearance by the Ministry and copies of the clearance letter are available with the APPCB / Committee and may also be seen at Website of the Ministry of Environment and Forests at http://envfor.nic.in . This should be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the Regional office at Bangalore.	Advertised in prominent news papers dated - 27.06.2008 in local language and also English, and copies were forwarded to Regional Office, MoEF, Bangalore
ix.	The Project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final	The Project was supported with Internal Fund Allocations. All the projects were completed by 2009-10.

Coromandel International Limited, Visakhapatnam

S.No.	General conditions	Compliance status
	approval of the project by the concerned authorities and the date of commencing the land development work, if any.	
x.	The Ministry may revoke or suspend the clearance, if implementation of any of the above conditions is not satisfactory.	Agreed. Compliance status furnishing regularly to concerned statutory bodies
xi.	The Ministry reserves the right to stipulate additional conditions if found necessary. The Company in a time bound manner will implement these conditions.	Agreed.
xii.	The above conditions will be enforced, inter-alia under the provisions of the Water (Prevention & Control of Pollution) Act, 1974, the Air (Prevention & Control of Pollution) Act, 1981, the Environment (Protection) Act, 1986, Hazardous Wastes (Management and Handling) Rules, 2003 and the Public Liability Insurance Act, 1991 along with their amendments and rules.	Agreed. Consent for Operation and Hazardous waste authorization has been obtained from APPCB. * Maintaining FORM-3 according to HW rules, 2016 *Public liability Insurance Policy valid till 31.03.2024

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TEST REPORT

Test Report No. TLC/V/Env/CFL/2019413

dt. 02.05.2023

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

Name of the client: Caromandel International Limited, Visakhapatnam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analysis Report for the Month of APRIL-2023

Date of monitoring	Time	PM _{2.5} Limit 40 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
26.04.2023 To 27.04.2023	09.00 to 09.00 hrs	34	78	14.0	15.4

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

For TEAM Labs and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Eas/CPL/200523

dt. 01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of MAY-2023

Date of monitoring	Time	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
25.05.2023 To 26.05.2023	08.00 to 09.00 hrs	38	85	15.7	20.4

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

For TEAM Labs and Consultants



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ANIL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CFL/24/0623

dt. 01.07.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of JUNE-2023

Date of monitoring	Time	PM 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 $\mu\text{g}/\text{m}^3$
28.06.2023 To 29.06.2023	09.00 hrs To 09.30 hrs	40	85	16.2	22.8

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

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Eas/CFL/269723

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analysis Report for the Month of JULY-2023

Date of monitoring	Time	PM ₁₀ Limit 60 µg/m ³	PM _{2.5} Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
28.07.2023 To 29.07.2023	05.00 to 09.00 hrs	36	80	14.2	16.8

All values are given in µg/m³

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CFL/280823

01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Ceymsandel International Limited, Visakhapatnam

Location of sampling: Near Ward

Date of Collection: As per details Given

Analysis Report for the Month of AUGUST-2022

Date of monitoring	Time	PM _{2.5} Limit 40 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
29.08.2022 To 30.08.2022	09.00 hrs 05.00 hrs	44	99	16.8	21.4

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

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLLC/V/Env/CFL/28/0923

dt. 05.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	Time	PM 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 ₂ Limit 80 $\mu\text{g}/\text{m}^3$
30.09.2023 To 01.10.2023	05.00 to 09.00 hrs	35	78	12.2	15.8

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/V/Env/CH/12/9423

4/02/05/2023

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

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

Parameters		AAQ-1 Station at the Top of Chimneys	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging Dept)
PM _{2.5}	Maximum	36	36	34
	Maximum	42	42	42
	95%ile	40	40	40
	Average	37	39	39
PM ₁₀	Maximum	42	66	62
	Maximum	75	82	82
	95%ile	75	82	82
	Average	79	75	79
SO ₂	Maximum	13.9	26.8	26.8
	Maximum	21.5	26.8	26.8
	95%ile	18.5	24.2	13.9
	Average	21.5	26.8	15.0
NO _x	Maximum	17.8	22.2	16.3
	Maximum	23.2	27.2	18.8
	95%ile	22.2	27.2	18.8
	Average	23.2	26.1	17.2
NH ₃	Maximum	0.02ug/M ³	0.02ug/M ³	0.01 ug/M ³
	Maximum	0.02ug/M ³	0.04ug/M ³	0.02ug/M ³
	95%ile	0.02ug/M ³	0.04ug/M ³	0.02ug/M ³
	Average	0.02ug/M ³	0.02ug/M ³	0.02ug/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/V/Env/CIL/12/0523

01.01.06.2023

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

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

Parameter		AAQ-1 Station at the Top of Calbrella	AAQ-2 Station near BG axis	AAQ-3 Station at Gate -32 (Near Begging shed)
PM2.5	Maximum	32	34	36
	Minimum	43	44	45
	95%ile	43	44	45
	Average	38	39	40
PM 10	Maximum	62	69	69
	Minimum	75	84	82
	95%ile	75	84	82
	Average	71	76	77
SO ₂	Maximum	14.7	13.1	13.8
	Minimum	22.2	18.9	15.5
	Average	19.6	15.6	14.7
	95%ile	22.2	18.8	15.5
NO ₂	Maximum	15.1	13.8	13.2
	Minimum	22.9	16.7	14.6
	95%ile	22.9	16.7	14.6
	Average	21.0	14.2	14.5
NH ₃	Maximum	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³
	Minimum	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³
	95%ile	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.02mg/M ³	0.02mg/M ³

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 except Ammonia

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TEST REPORT

Test Report No. TLC/V/Env/CH/128623

dt. 01.07.2023

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

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

Parameter		AAQ-1 Station at the Top of Calveria	AAQ-2 Station near DG wh	AAQ-3 Station at Gate -13 (near Begging road)
PM _{10.0}	Minimum	28	38	39
	Maximum	42	42	44
	95 th ile	41	42	44
	Average	37	39	39
	Standard	58	65	62
PM _{2.5}	Minimum	78	80	82
	Maximum	78	80	82
	95 th ile	78	80	82
	Average	78	78	78
	Standard	124	147	116
SO ₂	Minimum	24.5	25.5	26.5
	Maximum	29.5	29.5	29.5
	95 th ile	24.5	29.5	26.5
	Average	24.5	26.5	26.5
	Standard	16.5	16.5	16.5
NO _x	Minimum	24.5	27.5	25.5
	Maximum	24.5	27.5	25.5
	95 th ile	24.5	27.5	25.5
	Average	24.5	27.5	25.5
	Standard	0.01ug/M ³	0.01ug/M ³	0.01ug/M ³
NH ₃	Minimum	0.01ug/M ³	0.01ug/M ³	0.01ug/M ³
	Maximum	0.01ug/M ³	0.01ug/M ³	0.01ug/M ³
	95 th ile	0.01ug/M ³	0.01ug/M ³	0.01ug/M ³
	Average	0.01ug/M ³	0.01ug/M ³	0.01ug/M ³
	Standard	0.01ug/M ³	0.01ug/M ³	0.01ug/M ³

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

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TEST REPORT

Test Report No. TLC/V/Env/CH/128623

dt. 01.07.2023

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

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

Parameter		AAQ-1 Station at the Top of Calveria	AAQ-2 Station near DG set	AAQ-3 Station at Gate -13 (near Begging shed)
PM _{10.0}	Minimum	29	38	39
	Maximum	42	42	44
	95 th ile	41	42	44
	Average	37	39	39
	Standard	59	65	62
PM _{2.5}	Minimum	78	80	82
	Maximum	78	80	82
	95 th ile	78	80	82
	Average	78	78	78
	Standard	114	117	116
SO ₂	Minimum	24.5	25.5	25.5
	Maximum	25.5	25.5	25.5
	95 th ile	24.5	25.5	25.5
	Average	24.5	25.5	25.5
	Standard	16.5	16.5	16.5
NO _x	Minimum	24.5	25.5	25.5
	Maximum	24.5	25.5	25.5
	95 th ile	24.5	25.5	25.5
	Average	24.5	25.5	25.5
	Standard	16.5	16.5	16.5
NH ₃	Minimum	0.01ug/M ³	0.01ug/M ³	0.01 ug/M ³
	Maximum	0.02ug/M ³	0.04ug/M ³	0.02ug/M ³
	95 th ile	0.02ug/M ³	0.04ug/M ³	0.02ug/M ³
	Average	0.02ug/M ³	0.02ug/M ³	0.02ug/M ³
	Standard	0.02ug/M ³	0.02ug/M ³	0.02ug/M ³

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLA/CN/Env/CIL/124833

06.08.2023

Description of Test:

Ambient Air quality Monitoring inside the CPL

Name of the client:

Corresponded International Limited, Vadugapattanam

Location of sampling:

Station as per details given

Period of Monitoring :

For the Month of AUGUST 2023

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

Parameters		AAQ-1 Station at the Top of Calabur	AAQ-2 Station near DG site	AAQ-3 Station at Gate -43 (Near Bagging plant)
PM _{2.5}	Maximum	30	34	31
	Maximum	43	45	48
	95%ile	40	45	40
	Average	27	40	36
PM ₁₀ $\mu\text{g}/\text{m}^3$	Maximum	54	60	55
	Maximum	80	82	75
	95%ile	60	82	71
	Average	71	78	69
SO ₂ $\mu\text{g}/\text{m}^3$	Maximum	13.8	14.3	9.1
	Maximum	22.2	27.8	24.8
	Average	15.7	23.8	13.2
	95%ile	22.2	27.8	14.8
NO _x $\mu\text{g}/\text{m}^3$	Maximum	15.0	13.8	12.8
	Maximum	22.8	26.2	18.2
	95%ile	22.8	26.2	18.2
	Average	20.2	21.1	18.5
NH ₃ $\mu\text{g}/\text{m}^3$	Maximum	0.01	0.01	0.01
	Maximum	0.02	0.02	0.02
	95%ile	0.02	0.02	0.02
	Average	0.015	0.02	0.01
O ₃ $\mu\text{g}/\text{m}^3$	Maximum	12	10	12
	Maximum	18	20	12
	95%ile	18	20	11
	Average	11.8	14.3	13.25
CO $\mu\text{g}/\text{m}^3$	Maximum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	95%ile	0.1	0.2	0.2
	Average	0.1	0.02	0.17
Ph $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Cd $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
BaP $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
As $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Hf $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05

For TEAM Labs and Consultants

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TEST REPORT

Test Report No: TCU/Venue/CL/03/0902

01.03.16.2023

Description of Test:

Ambient Air quality Monitoring inside the CPL

Name of the client:

Curamandel International Limited, Visakhapatnam

Location of sampling:

Station as per data to give

Period of Monitoring :

For the Month of SEPTEMBER-2022

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

Parameters		AAQ-1 Station at the Top of Calmaris	AAQ-2 Station near DG site	AAQ-3 Station at Gate-13 (Near Shipping plant)
PM _{2.5}	Minimum	28	34	25
	Maximum	48	42	41
	95%ile	46	42	41
	Average	35	32	34
PM ₁₀ µg/m ³	Minimum	55	50	48
	Maximum	74	76	71
	95%ile	74	76	71
	Average	67	67	64
SO ₂ µg/m ³	Minimum	11.2	10.5	8.9
	Maximum	18.0	24.2	14.9
	Average	15.4	18.1	12.8
	95%ile	18.0	24.2	14.9
NO ₂ µg/m ³	Minimum	13.8	19.2	11.3
	Maximum	28.4	24.3	16.8
	95%ile	28.4	25.0	16.8
	Average	17.8	22.2	14.4
NH ₃ µg/m ³	Minimum	0.01	0.01	0.01
	Maximum	0.02	0.02	0.012
	95%ile	0.01	0.01	0.012
	Average	0.015	0.017	0.011
O ₃ µg/m ³	Minimum	8	8	8
	Maximum	14	18	14
	95%ile	14	18	14
	Average	11.2	13.8	11.2
CO µg/m ³	Minimum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	95%ile	0.1	0.2	0.2
	Average	0.1	0.14	0.13
Pb µg/m ³	<0.05	<0.05	<0.05	<0.05
Cd µg/m ³	<0.01	<0.01	<0.01	<0.01
Ni µg/m ³	<0.05	<0.05	<0.05	<0.05
Mn µg/m ³	<0.05	<0.05	<0.05	<0.05
Fe µg/m ³	<0.05	<0.05	<0.05	<0.05

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Env/CL/150423

01.02.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Ceromandel International Limited, Vinchagethum

Location of sampling: Stations as per details given

Date of Sample collection: 25.01.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahalli colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.4	Nil	0.3	Nil
3	Yeduruwani colony-1	7.3	Nil	0.3	Nil
4	Yeduruwani colony-2	7.4	Nil	0.3	Nil
5	Mulugada No.1	7.3	Nil	0.3	Nil
6	Mulugada No.2	7.4	Nil	0.3	Nil
7	Mulugada No.3	7.5	Nil	0.3	Nil
8	Kodipadala colony	7.4	Nil	0.2	Nil
	Preval	IS:2028 Part 11-1982	APHA450D	SM 4500 F- D	APHA450C

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Labs and Consultants

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TEST REPORT

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

dt.01.06.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Corumandul International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 28.05.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia / Nitrogen mg/l
1	Kamaladevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvaniyalam-1	7.5	Nil	0.3	Nil
4	Yeduruvaniyalam-2	7.4	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.3	Nil
8	Kodipandala dibba	7.4	Nil	0.2	Nil
	Project	IS:3425 Part 11-1980	APHA4500D	314 4500 F- B	APHA4500C

For TEAM Labs. and Consultants



Labs and Consultants

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TEST REPORT

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

01.01.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Corumandal International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 22.06.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia 1N Nitrogen mg/l
1	Kamala Devi colony- No.1	7.8	Nil	0.3	Nil
2	Kamala Devi colony- No.2	7.7	Nil	0.2	Nil
3	Yeharavani palam-1	7.5	Nil	0.2	Nil
4	Yeharavani palam-2	7.4	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.3	Nil
8	Kodiyondala ditches	7.4	Nil	0.2	Nil
	Protocol	IS:2035 Part 11-1993	APHA-1993	SM 4500 F- P	APHA-950C

For TEAM Usage and Comments



Lab and Consultants

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TEST REPORT

Test Report No. TLC/NT/Env/CIL/150723

01.08.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coremandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 17.07.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia + Nitrogen mg/l
1	Kamsholevi colony- No.1	7.7	Nil	0.2	Nil
2	Kamsholevi colony- No.2	7.8	Nil	0.2	Nil
3	Yaduvansipalem-1	7.7	Nil	0.2	Nil
4	Yaduvansipalem-2	7.8	Nil	0.2	Nil
5	Mulugada No.1	7.5	Nil	0.2	Nil
6	Mulugada No.2	7.6	Nil	0.2	Nil
7	Mulugada No.3	7.7	Nil	0.2	Nil
8	Kodiyandala chitra	7.6	Nil	0.2	Nil
	Prepared	15.08.2023, Puro 11-1902	AP00441003	100 2500 L- R	AP0044090C

For TEAM Lab and Consultants



Lab and Consultants

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TEST REPORT

Test Report No. TLC/V/Enr/CIL/15/0023

06.01.09.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 19.08.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonical Nitrogen mg/l
1	Kamalahdevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahdevi colony- No.2	7.7	Nil	0.2	Nil
3	Veduravanipalem-1	7.5	Nil	0.2	Nil
4	Veduravanipalem-2	7.7	Nil	0.2	Nil
5	Statagada No.1	7.5	Nil	0.3	Nil
6	Statagada No.2	7.5	Nil	0.2	Nil
7	Statagada No.3	7.6	Nil	0.2	Nil
8	Kodipendula ditha	7.6	Nil	0.2	Nil
	Present	IN-3025 Part II- (B)	APHA4880	SM 4830 F. & P.	APHA480C

For TEAM Lab and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TL/CL/VI/Env/CIL/15/0922

dt. 03.10.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Commandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 28.09.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia [Nitrogen mg/l]
1	Kannaladevi colony- No.1	7.7	Nd	0.2	Nd
2	Kannaladevi colony- No.2	7.7	Nd	0.2	Nd
3	Yeduramangalam-1	7.6	Nd	0.2	Nd
4	Yeduramangalam-2	7.6	Nd	0.2	Nd
5	Mulagada No.1	7.7	Nd	0.2	Nd
6	Mulagada No.2	7.5	Nd	0.2	Nd
7	Mulagada No.3	7.7	Nd	0.2	Nd
8	Kodipamala dibba	7.8	Nd	0.2	Nd
	Protocol	IS:3025 Part 11-1980	APHA4500D	591 4500 F- 0	APHA4500C

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TEST REPORT

Test Report No. TLC/V/Env/CFL/60423

dt.02.05.2023

Description of Test: Pore water analysis

Name of the client: Ceresmodel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of sample collection : As per details given

No	Date	Location of Pore-well	F- mg/L
1	28.04.2023	CTL - colony	6.4
2	"	Near GOF gate	6.5
3	"	Near 7 th gate	6.5
4	"	COC	6.6
		1510500 Permissible limit	1.5
	Protocol		GM 4000 > 0

For TEAM Labs and Consultants

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Test Report No. TLC/V/Eno/CFL/14/9523

01.01/06.2023

Description of Test: Pesticide analysis

Name of the client: Coremanul International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide	F. mg/L
1	28.05.2023	CFL - colony	8.5
2	-	Near 4 OP Gate	8.6
3	-	Near 7 th gate	8.5
4	-	CBL	8.7
		IN38500 Pesticide limit	1.5
	Protocol		504.4980 P-10

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TEST REPORT

Test Report No. TLC/Y/Env/CFL/16/9523

dt. 01.07.2023

Description of Test: Pitto wells analysis

Name of the client: Coremandel International Limited, Vizakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pitto-well	P- mg/L
1	16.06.2023	CFL - colony	0.5
2	"	Near OP Gate	0.6
3	"	Near 7 th gate	0.5
4	"	CRC	0.7
		IS18580 Permissible limit	1.5
	Protocol		SM 4500 T-10

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TL/C/V/Env/CFL/364723

dt.01.08.2023

Description of Test: Petco wells analysis

Name of the client: Cammudel International Limited, Virudhachalam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Petco well	P- mg/L
1	18.07.2023	CFL - colony	0.4
2	18.07.2023	Near OP Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CBC	0.6
		IS1500 Permissible limit	1.5
-	Proposed		330 mg/L D

For TEAM Labs and Consultants



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TEST REPORT

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

08.01.2023

Description of Test: Peiza wells analysis

Name of the client: Carvamandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peiza-well	F- mg/L
1	12.08.2021	CFL - colony	0.4
2	12.08.2021	Near OP Gate	0.5
3	12.08.2021	Near 7 th gate	0.6
4	12.08.2021	CBC	0.6
		IS18500 Permissible limit	1.5
	Protocol		800 4500 F. C

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TEST REPORT

Test Report No. TLC/VE/CPL/16/0923

04.03.2023

Description of Test: **Feziz 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 Feziz well	F- mg/L
1	26.09.2023	CPL - colony	8.5
2	26.09.2023	Near 4 th Gate	8.6
3	26.09.2023	Near 7 th gate	8.7
4	26.09.2023	CRC	8.6
		1510596 Permissible limit	1.5
	Protocol		2014384 F- D

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. T/C/V/Env/CIL/11/0423

41.02.05.2023

Description of Test:

Source Emission Monitoring inside the CIL

Name of the client:

Coromandel International Limited, Vokkalpattam

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

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

S.No.	Stack attached to	Flow rate NM ³ /hr	parameters	Cont. mg/NM ³	APPCB Standard Limit
1	Complex A	19413	Particulate matter	22	45 mg/NM ³
			Ammonia	90	185.0 mg/NM ³
			Fluoride	0.6	4.0 mg/NM ³
2	Complex B	18293	Particulate matter	24	45 mg/NM ³
			Ammonia	90	185.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
3	Complex C	17128	Particulate matter	26	45 mg/NM ³
			Ammonia	90	185.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
4	Sulphuric acid plant-I	9602	Sulphur dioxide (880g/NM ³)	6.880kg/MT	1 kg/MT
			Sulphur trioxide	90	0.25 kg/MT
			Acid mist	90	20 mg/NM ³
5	Sulphuric acid plant-II	24981	Sulphur dioxide (200g/NM ³)	6.829kg/MT	0.65 kg/MT
			Sulphur trioxide	90	0.25 kg/MT
			Acid mist	90	20 mg/NM ³
6	Phosphoric acid plant-I	15845	Particulate matter	28	50 mg/NM ³
			Fluoride	6.8	20 mg/NM ³
			Total Fluoride	5.1	20 mg/NM ³
7	Rock grinding unit (Old)	8893	Particulate matter	27	50 mg/NM ³
			Total Fluoride	5.1	20 mg/NM ³
			Particulate matter	48	123 mg/NM ³
8	Wet Grinder	1257	Particulate matter	34	50 mg/NM ³
			Total Fluoride	5.1	20 mg/NM ³
			Particulate matter	48	50 mg/NM ³
9	Phosphoric acid plant-2	20241	Particulate matter	34	50 mg/NM ³
			Total Fluoride	5.1	20 mg/NM ³
			Particulate matter	48	50 mg/NM ³
10	Rock grinding unit (New)	7623	Particulate matter	48	50 mg/NM ³
			Total Fluoride	5.8	20 mg/NM ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLO/Env/CIL/11/9623

01.01.2023

Description of Test:

Source Emission Monitoring inside the CIL

Name of the client:

Coromandel International Limited, Visakhapatnam

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

SOURCE/STACK EMISSION MONITORING FOR THE MONTH (MAY)-2023

S.No	Stack attached to	Flow rate NM ³ /hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	104895	Particulate matter	28	40 mg/NM ³
			Ammonia	80	105.0 mg/NM ³
			Fluoride	6.9	4.8 mg/NM ³
3	Complex B	196470	Particulate matter	22	40 mg/NM ³
			Ammonia	80	105.0 mg/NM ³
			Fluoride	1.2	4.8 mg/NM ³
2	Complex C	104895	Particulate matter	18	40 mg/NM ³
			Ammonia	72	105.0 mg/NM ³
			Fluoride	1.4	4.8 mg/NM ³
4	Sulphuric acid plant-I	92518	Sulphur dioxide	0.1228 kg/NM ³ (89mg/NM ³)	1 Kg/NM ³
			Sulphur trioxide	80	0.25 Kg/NM ³
			Acid mist	70	20 mg/NM ³
			Airic mist	70	20 mg/NM ³
5	Sulphuric acid plant-II	160511	Sulphur dioxide	0.0488 kg/NM ³ (35mg/NM ³)	1.05 Kg/NM ³
			Sulphur trioxide	80	0.25 Kg/NM ³
			Acid mist	80	20 mg/NM ³
			Airic mist	19	50 mg/NM ³
6	Phosphoric acid plant-I	18333	Particulate matter	5.8	20 mg/NM ³
			Fluoride	25	80 mg/NM ³
7	Rock grinding unit (OR)	9888	Particulate matter	3.5	20 mg/NM ³
			Total Fluoride	28	100 mg/NM ³
8	Wheat Baker	8871	Particulate matter	22	40 mg/NM ³
			Total Fluoride	2.1	20 mg/NM ³
9	Phosphoric acid plant-2	24807	Particulate matter	24	20 mg/NM ³
			Total Fluoride	3.4	20 mg/NM ³
10	Rock grinding unit (New)	8338	Particulate matter	3.4	20 mg/NM ³
			Total Fluoride	3.4	20 mg/NM ³

For TEAM Lab and Consultants



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TEST REPORT

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

S.No	Stack attached to	Flow rate NM ³ /hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	20064	Particulate matter	22	45 mg/NM ³
			Ammonia	65	100.0 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
2	Complex B	10294	Particulate matter	26	45 mg/NM ³
			Ammonia	90	100.0 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
3	Complex C	10036	Particulate matter	19	45 mg/NM ³
			Ammonia	80	100.0 mg/NM ³
			Fluoride	1.8	4.0 mg/NM ³
4	Sulphuric acid plant-1	9824	Sulphur dioxide	0.289kg/MT (20mg/NM ³)	1 kg/MT
			Sulphur trioxide	Nil	4.25 kg/MT
			acid eqv	Nil	22 mg/NM ³
			Sulphur dioxide	0.154kg/MT (10mg/NM ³)	0.65 kg/MT
5	Sulphuric acid plant-2	26420	Sulphur trioxide	Nil	4.25 kg/MT
			acid eqv	Nil	22 mg/NM ³
			Particulate matter	20	45 mg/NM ³
			Fluoride	0.5	20 mg/NM ³
6	Phosphate acid plant-1	19843	Particulate matter	28	50 mg/NM ³
			Total Fluoride	1.2	20 mg/NM ³
			Particulate matter	24	110 mg/NM ³
7	Rock grinding unit (Old)	4216	Particulate matter	31	50 mg/NM ³
			Total Fluoride	4.8	20 mg/NM ³
8	Waste Water	8252	Particulate matter	35	50 mg/NM ³
			Total Fluoride	2.5	20 mg/NM ³
9	Phosphate acid plant-2	26846	Particulate matter	35	50 mg/NM ³
			Total Fluoride	2.5	20 mg/NM ³
10	Rock grinding unit (New)	8171	Particulate matter	35	50 mg/NM ³
			Total Fluoride	2.5	20 mg/NM ³

For Team Labs and Consultants



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TEST REPORT

Test Report No. T.L.C/V/Env/CFL/364723

dt. 01.08.2023

Description of Test: Petco wells analysis

Name of the client: Cammudel International Limited, Virudhachalam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Petco well	P- mg/L
1	18.07.2023	CFL - colony	0.4
2	18.07.2023	Near OP Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CBC	0.6
		IS1500 Permissible limit	1.5
-	Proposed		300 mg/L D

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No.TLC/V/Env/CBL/11-0023

41.01.09.2023

Description of Test:

Source Emission Monitoring inside the CPE

Name of the client:

Commandal International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Flow rate NM ³ /hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	19405	Particulate matter	21	45 mg/NM ³
			Acid mist	40	165.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
2	Complex D	18379	Particulate matter	20	45 mg/NM ³
			Acid mist	80	165.0 mg/NM ³
			Fluoride	2.0	4.0 mg/NM ³
3	Complex C	18793	Particulate matter	24	45 mg/NM ³
			Acid mist	65	165.0 mg/NM ³
			Fluoride	1.6	4.0 mg/NM ³
4	Sulphuric acid plant-I	100877	Sulphur dioxide	0.118 Kg/NM ³ (120mg/NM ³)	1 Kg/NM ³
			Sulphur trioxide	Nil	0.25 Kg/NM ³
			Acid mist	Nil	20 mg/NM ³
			Sulphur dioxide	0.118 Kg/NM ³ (120mg/NM ³)	0.65 Kg/NM ³
5	Sulphuric acid plant-II	20440	Sulphur dioxide	Nil	0.25 Kg/NM ³
			Sulphur trioxide	Nil	0.25 Kg/NM ³
			Acid mist	Nil	20 mg/NM ³
			Sulphur dioxide	Nil	0.25 Kg/NM ³
6	Phosphoric acid plant-I	14374	Particulate matter	40	50 mg/NM ³
			Fluoride	6.1	20 mg/NM ³
7	Rock grinding unit (HR)	8516	Particulate matter	40	50 mg/NM ³
			Total Fluoride	4.7	20 mg/NM ³
8	Wheat Baker	8000	Particulate matter	21	115 mg/NM ³
9	Phosphoric acid plant-2	27042	Particulate matter	40	50 mg/NM ³
			Total Fluoride	5.7	20 mg/NM ³
10	Rock grinding unit (New)	8177	Particulate matter	40	50 mg/NM ³
			Total Fluoride	6.0	20 mg/NM ³

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TEST REPORT

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

01.03.18.2023

Description of Test:

Source Emission Monitoring inside the CFI.

Name of the client:

Caracasand International Limited, Visakhapatnam

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

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

S.No.	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	A/PPCB standard Limit
1	Complex A	17080	Particulate matter	08	45 mg/Nm ³
			Ammonia	95	155.0 mg/Nm ³
			Fluoride	1.3	4.0 mg/Nm ³
2	Complex B	18000	Particulate matter	22	45 mg/Nm ³
			Ammonia	76	155.0 mg/Nm ³
			Fluoride	3.9	4.0 mg/Nm ³
3	Complex C	20000	Particulate matter	36	45 mg/Nm ³
			Ammonia	72	155.0 mg/Nm ³
			Fluoride	3.9	4.0 mg/Nm ³
4	Sulphuric acid plant-I	95750	Sulphur dioxide (100mg/Nm ³)	0.124kg/Mt	1 Kg/MT
			Sulphur trioxide	00	0.10 Kg/MT
			Acid mist	00	25 mg/Nm ³
			Sulphur dioxide (50mg/Nm ³)	0.120kg/MT	0.05 Kg/MT
5	Sulphuric acid plant-II	10884	Sulphur dioxide	00	0.10 Kg/MT
			Sulphur trioxide	00	0.10 Kg/MT
			Acid mist	00	25 mg/Nm ³
			Particulate matter	36	50 mg/Nm ³
6	Phosphoric acid plant-I	14022	Fluoride	6.0	10 mg/Nm ³
			Particulate matter	40	50 mg/Nm ³
			Total Fluoride	3.0	10 mg/Nm ³
7	Rock grinding unit (DR)	9400	Particulate matter	40	50 mg/Nm ³
8	Wheel loader	8720	Particulate matter	28	125 mg/Nm ³
9	Phosphoric acid plant-2	18097	Particulate matter	40	50 mg/Nm ³
			Total Fluoride	6.0	10 mg/Nm ³
10	Rock grinding unit (New)	7000	Particulate matter	40	50 mg/Nm ³
			Total Fluoride	3.0	10 mg/Nm ³

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TEST REPORT

Test Report No. TLC/ENV/CIL/149423

dt. 02.05.2023

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

Name of the client: Carotransdel International Limited, Virudhapuram

Location of sampling: Gullulapalem

Date of Collection: As per details given

Analysis Report for the Month of APRIL-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 _x Limit 80 µg/m ³
05.04.2023	24	45	10.2	13.5
06.04.2023	26	56	11.3	14.7
10.04.2023	28	55	10.4	15.6
12.04.2023	30	60	9.7	14.4
17.04.2023	32	65	12.2	17.7
19.04.2023	28	59	10.8	15.3
24.04.2023	25	53	9.5	14.7
Protocol	Gravimetric, CPC 2004	ISIRI PART- 21-2006	ISIRI PART- 2-2001	ISIRI PART- 6-2004

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CYL/130423

dt. 01.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Vakkhampetnam

Location of sampling: Melaguda

Date of Collection: As per details given

Analysis Report for the Month of APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	28	57	10.1	13.3
06.04.2023	27	56	9.8	14.3
10.04.2023	29	60	12.7	16.6
13.04.2023	32	65	13.0	16.6
17.04.2023	29	60	10.2	15.5
19.04.2023	30	64	11.3	17.3
24.04.2023	26	55	9.7	13.7
Protocol	Green India, CPCB and ISIRI PART- 12-2006	ISIRI PART- 12-2006	ISIRI PART- 1-2001	ISIRI PART- 6-2004

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

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TEST REPORT

Test Report No. TLCV/Env/CIL/13/8523

dt. 01.06.2023

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

Name of the client: Corusmetal International Limited, Visakhapatnam

Location of sampling: Mangula

Date of Collection: As per details given

Analysis Report for the Month of MAY 2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	30	58	11.5	15.5
04.05.2023	28	55	10.4	14.3
06.05.2023	31	62	12.5	16.6
11.05.2023	32	66	14.7	18.3
15.05.2023	28	58	10.5	15.5
19.05.2023	30	62	9.9	16.6
20.05.2023	27	56	9.2	14.7
Protocol	Gravimetric, CPCB method	IS0132 PART- 12 -2006	IS0132 PART- 1 -2000	IS0132 PART- 6 -2004

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

For TEAM Labs and Consultant



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TEST REPORT

Test Report No. TLC/N/Env/CIL/140523

ds.01.06.2023

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

Name of the client: Coromandel International Limited, Vengal Rao Nagar

Location of sampling: Gullabapalem

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
5.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.2	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravimetric, CPC method	IS 103 PART- 22 -2006	IS 104 PART- 2 -2001	IS 104 PART- 6 -2009

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/N/Env/CIL/140523

ds.01.06.2023

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

Name of the client: Coromandel International Limited, Vengal Rao Nagar

Location of sampling: Gullabagalam

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
5.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.2	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravimetric, CPC method	IS 103 PART- 22 -2006	IS 103 PART- 2 -2001	IS 103 PART- 6 -2009

For TEAM Labs and Consultants



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

04.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Malapeta

Date of Collection: As per details given

Analysis Report for the Month of JUNE-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.06.2023	31	60	11.5	13.8
07.06.2023	30	58	12.0	16.3
13.06.2023	32	62	12.5	16.6
15.06.2023	34	66	14.2	18.2
20.06.2023	28	55	10.2	15.5
23.06.2023	20	56	8.0	10.8
26.06.2023	29	60	9.7	14.3
Protocol	Gravimetric, CPCB method	IS 1412 PART- 13 -2006	IS 1412 PART- 3 -2001	IS 1412 PART- 6 -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/N/Env/CIL/149723

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Cerebrand International Limited, Visakhapatnam

Location of sampling: Gallekapatnam

Date of Collection: As per details given

Analysis Report for the Month of JULY-2023

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 50 µg/m ³
05.07.2023	22	48	9.5	12.6
08.07.2023	24	50	10.2	13.3
10.07.2023	22	45	9.4	11.8
13.07.2023	19	40	8.6	10.5
18.07.2023	16	34	7.4	9.8
22.07.2023	14	30	7.0	9.5
24.07.2023	15	38	8.0	10.8
Protocol	Gravimetric, CPCB method	ISO1405 Part- 22-2000	ISO1405 Part- 2-2000	ISO1405 Part- 4-2004 (11)

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TEST REPORT

Test Report No. TLC/V/Env/CIL/03/9723

d.18.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Cosmocon International Limited, Visakhapatnam

Location of sampling: Malaguda

Date of Collection: As per details given

Analysis Report for the Month of JULY 2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
05.07.2023	28	54	11.8	13.8
08.07.2023	24	55	18.5	14.2
10.07.2023	30	66	11.8	15.2
13.07.2023	20	42	9.7	13.5
18.07.2023	18	40	8.8	19.4
22.07.2023	16	35	7.8	19.0
24.07.2023	20	40	8.8	18.8
Protocol	Good metric, CPCB used	IS 181 Part-1, 11-2006	IS 181 Part-2, 2-2003	IS 181 Part-3, 6-2004

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/V/Env/CIL/140823

05.01.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Caromandel International Limited, Virudhapuram

Location of sampling: Gullalapuram

Date of Collection: As per details given

Analysis Report for the Month of AUGUST-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 $\mu\text{g}/\text{m}^3$
02.08.2023	28	58	9.8	14.2
04.08.2023	26	55	10.0	13.5
09.08.2023	30	60	9.6	12.7
11.08.2023	32	57	11.2	15.0
16.08.2023	27	52	9.5	11.0
18.08.2023	15	38	8.0	10.2
21.08.2023	24	50	9.7	12.2
Protocol	Gravimetric, CPCB method	ISO402 PART-3 -2004	ISO182 PART-2 - 1991	ISO182 PART-4 -2004

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Test Report No. TLC/V/Env/CIL/130823

dt. 01.09.2023

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

Name of the client: Coramandel International Limited, Visakhapatnam

Location of sampling: Madagada

Date of Collection: As per details given

Analysis Report for the Month of AUGUST-2023

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 $\mu\text{g}/\text{m}^3$
02.08.2023	26	54	10.8	14.0
04.08.2023	27	55	9.9	13.2
09.08.2023	32	64	11.0	16.3
11.08.2023	25	50	10.2	13.5
16.08.2023	28	56	9.7	13.3
19.08.2023	12	39	8.1	11.3
21.08.2023	26	54	9.1	10.9
Protocol	Gravimetric, CPCB manual	IS032 PART-21 - 2006	IS032 PART-2 - 2001	IS018: PART-4 - 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. TLC/V/Env/CH/138923

dt.03.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Ceromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 160 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	24	52	9.8	11.6
06.09.2023	20	48	8.0	10.8
11.09.2023	22	50	8.3	11.2
13.09.2023	15	38	7.8	10.2
19.09.2023	20	44	8.6	12.2
21.09.2023	25	48	9.5	13.8
25.09.2023	26	54	9.7	14.2
Protocol	Gravimetric, CPCB manual	INDIA PART- 32 - (2006)	INDIA PART- 3 - (2001)	INDIA PART- 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/V/Eaw/CIL/14/0923

dt.03.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Ceymond International Limited, Visakhapatnam

Location of sampling: Galilapalem

Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	25	52	9.5	13.3
06.09.2023	22	46	8.8	12.4
11.09.2023	20	42	7.8	10.6
13.09.2023	18	35	7.2	10.6
18.09.2023	21	45	9.7	12.8
23.09.2023	25	48	9.5	11.6
25.09.2023	27	50	10.1	13.8
Protocol	Gravimetric, CPC method	ISSAC PART- 20 -2006	ISSAC PART- 2 -2005	ISSAC PART- 2006

For TEAM Labs and Consultants



DHSD-Village-Commander

To: Nagajana P Ngr DHSD-Village-Commander
Sent: 01 December 2024 17:05
Cc: saam@bharatgas.com; Nagajana P Ngr dhds@bharatgas.com; saam@bharatgas.com
Subject: DHSD-Village-Commander, Bharatgas, Bharatgas Government Bharatgas-Village-Commander, Nagajana P Ngr DHSD-Village-Commander, Village Officer, Bharatgas Government Bharatgas-Village-Commander
Attachments: Half yearly SC Environment Clearance Compliance Report-1.pdf
SC Compliance No. 7000/MPD signed by Raju-21.pdf

Dear Sir,

Ref: E. No. J-0001/200/2000-4-001 dated 18.05.2007

Please find the attached half yearly compliance report of Environment Clearance issued by HCDPCC for enhanced production capacity of Phosphoric acid plant from 500 t/MPD to 700 t/MPD.

Period of submission : 1 Apr 23 to Sep 23

Unit : Command International Limited, Visakhapatnam

Regards,
Nagajana P
Manager-Environment
0900013100

SAVE ENVIRONMENT SAVE LIFE

