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09/14/2013

To
The Director,
Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st and 2nd Floor, New Delhi Expert Promotion Council,
34, Cathedral Garden Road,
Mumbai-400004, Chennai-600004

Dever-Nick

July 14th Yearly EC (Environment Canada) Compliance Report - Regal

Received 15 May 2006; accepted 1 February 2007; first published online 10 March 2007

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for manufacturing of Customized Fertilizer Plant of two streams of 330 MTPD each.

Period of submission : Apr 23 to Sep 25
Year : Current and migrational period, Vasilopoulos

Thanking You:

For Corporate Information visit us at

Group President M. H. H. H. H.

CC: The Member Secretary, Field Office APPO, Varanasi
Joint Chief Environmental Engineer, APPO, District Office, Varanasi
Environmental Engineer, APPO, Regional Office, Varanasi

Coromandel International Limited, Visakhapatnam

MoEF-EC: COMPLIANCE STATUS OF Environmental Clearance (EC) issued by MoEF for Manufacture of Customized Fertilizer plant of two streams of 300 MTPD each

Ref. P. No. J-11011/643/2008-IA-8(i) dated June 10, 2008

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

A.1 SPECIFIC CONDITIONS:

S.NO.	CONDITION	COMPLIANCE STATUS
i)	The company shall comply with all the conditions mentioned in the environmental clearance issued to the existing plant vide Ministry's letter F.No.J-11011/2142007-IA.8(i) dated 31st August, 2007 for expansion of the fertilizer plant from 2700 to 3600 TPD	Complied
ii)	The projects authorities shall ensure zero discharge from the proposed plant. The wastewater generated for the existing plant shall be treated and disposed as per the standards prescribed by the Andhra Pradesh Pollution Control Board. No utilities shall be developed for this project.	Zero effluent discharge from this customized fertilizer plant.
iii)	The project authorities shall not manufacture the raw materials as this plant will be based on mixing process only.	No raw materials will be manufactured.
iv)	The project authority shall install dust collection such as cyclone system in fertilizer mixing and bagging plant to control particulate emissions.	Installed cyclones in series for each circuit to eliminate dust emissions
v)	The company shall carry out air quality monitoring at ventstacks and regular monitor the gaseous emissions along with particulate matter. The reports shall be submitted to the Ministry's Regional Office at Bangalore, CPCB and SPCB	Air quality monitoring reports being regularly furnished to CPCB & SPCB. Find enclosed Annexure-Gf Environment monitoring reports for your reference.

Coromandel International Limited, Visakhapatnam

S.NO.	CONDITION	COMPLIANCE STATUS
vi)	The gaseous emissions (SO ₂ , NO _x , NH ₃ , Urea dust) and particulate matter from various process units shall conform to the standards prescribed by the concerned authorities from time to time. Emission data shall be periodically monitored and reports submitted to Ministry's Regional Office at Bangalore, CPOB and SPCB.	Stack analysis reports being regularly furnished to APPCB & CPOB. Find enclosed Annexure-Cf Environment monitoring reports for your reference.
vii)	Data on ambient air quality, stack emissions and fugitive emissions shall be regularly updated on the website of the company and submitted on-line to the Ministry's Regional Office at Bangalore, Andhra Pradesh Pollution Control Board (APPCB) and Central Pollution Control Board (CPCB) as well as hard copy once in six months. Data on SPm, SO ₂ and NO _x shall also be displayed outside the premises at the appropriate place for the general public.	Installed three online monitoring AQM stations and connected to APPCB server. Ambient air quality is also being monitored through MoEFCC approved laboratory.
viii)	the company shall develop the green belt in 33% area, out of total area to mitigate the effect of fugitive emissions and noise as per the guidelines of CPOB	Out of the 428 acres, the revised land area is 213 (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 for existing and proposed plant	Complied.
x)	Occupational health surveillance of the workers shall be carried out on a regular basis and records shall be maintained as per the Factories Act.	Annual health checkup being conducted for employees and contract workmen according to Factories act.
xi)	The company shall make the arrangement for protection of possible fire hazards during manufacturing process in material handling.	Plant has full fledge fire fighting system and also have an agreement for mutual aid with neighboring industries

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

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S.NO.	CONDITION	COMPLIANCE STATUS
iii)	All the waste waters generated from the various processes shall be recycled/reused in the plant and zero discharge shall be maintained. The domestic waste water shall be treated in septic tanks and treated waste shall be used for irrigation in the green belt.	Zero effluent discharge from complex plant and developed & implemented schemes to make minimized effluent from phosphoric acid & Sulfuric acid plants
iv)	No further expansion or modifications in the plant shall be carried out without prior approval of the Ministry of Environment and Forests. In case of deviations or alterations in the project proposal from those submitted to this Ministry for clearance, a fresh reference shall be made to the Ministry to assess the adequacy of conditions imposed and to add additional environmental protection measures required, if any.	Noted
v)	At no time, the emissions shall exceed the prescribed limits. In the event of failure of any pollution control system adopted by the unit, the unit shall be immediately put out of operation and shall not be restarted until the desired efficiency has been achieved.	Emergency interlocks provided to critical equipments. Failure of any equipment plant will lead to plant shut down immediately.
vi)	The locations of ambient air quality monitoring stations shall be reviewed in consultation with the State Pollution Control Board (SPCB) and additional stations shall be installed, if required, in the down wind direction as well as where maximum ground level concentrations are anticipated.	Ambient air quality is also being monitored through MoEF approved laboratory.
vii)	Dedicated scrubbers and stacks of appropriate height as per the Central Pollution Control Board guidelines shall be provided to control the emissions from various vents. The scrubber water shall be sent to ETP for further treatment.	Stacks & scrubbers have been installed according to CPCB guidelines. Scrubbing liquid recycling into process

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S.NO.	CONDITION	COMPLIANCE STATUS
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.	Being measured quarterly as per CHGAS 46001 Standard and procured workplace monitoring equipments to monitor frequently
ix)	The project authorities shall strictly comply with the rules and guidelines under Manufacture, Storage and Import of Hazardous Chemicals rules, 1989 as amended in the October, 1994 and January 2000 and Hazardous Waste (Management and Handling) Rules, 1989 as amended from time to time. Authorization from the SPCB shall be obtained for collection, treatment, storage and disposal of hazardous wastes.	Maintaining FORM-3, FORM-4 and FORM-10 for storage and transfer of hazardous waste. Hazardous Waste is sending to authorized dealers. Hazardous waste authorization has been obtained from APPCB.
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.	Noise monitoring is being carried out and the noise levels are with in the prescribed noise standards. Find enclosed Annexure-01 Environment monitoring reports for your reference.
xi)	The company shall develop rainwater harvesting structures to harvest the run-off water for recharge of groundwater.	Noted.

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S.NO.	CONDITION	COMPLIANCE STATUS
ii)	The company shall undertake eco-developmental measures including community welfare measures in the project area for the overall improvement of the environment. The eco development plan should be submitted to the SPCB within three months of receipt of this letter for approval.	1. Installed four stage scrubbing system in complex plant 2. Installed Alkali scrubbers in both sulfuric acid plants 3. Installed fume scrubber in phosphoric acid plant 4. Recovery of fluoroallic acid from 30% phosphoric acid 5. Installed bag filters at rock grinding section and rock unloading at wharf 6. Installed tube conveyors to transfer raw material & product in order to avoid spillages 7. Developed green belt in 33% of the plant area (Out of the 428 acres, the revised land area is 313 (after demarking from VPT) and the green belt is developed more than 23%. Hence Complied.)
iii)	The project proponent shall also comply with all the environmental protection measures and safeguards proposed in the EIA/EEMP report	Noted
xiv)	A separate Environmental Management Cell equipped with full-fledged laboratory facilities shall be set up to carry out the Environmental management and Monitoring functions.	ADM – EHS is in-charge of pollution control and directly reports to unit head. He is supported by Manager – Environment and other staff from quality control & laboratory for carrying out analysis as per environmental management plan.
xv)	The project authorities shall earmark adequate funds to implement the conditions stipulated by the Ministry of Environment and Forests as well as the State Government along with the implementation schedule for all the conditions stipulated herein. The funds so provided shall not be diverted for any other purpose.	Funds are provided through Revenue/Capital budget.

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S.NO.	CONDITION	COMPLIANCE STATUS
xvi)	The implementation of the project vis-à-vis environmental action plans shall be monitored by the concerned Regional Office of the Ministry/SPOB/CPOB. A six-monthly compliance status report shall be submitted to monitoring agencies and shall be posted on the website of the Company.	Noted. Compliance report sent regularly and the same is uploaded in company website.
xvii)	State Pollution Control Board should display a copy of the clearance letter at the Regional office, Gram Panchayat, District Industry Centre and Collector's office/Tehsildar's Office for 30 days.	--
xviii)	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 SPOB and may also be seen at Website of the Ministry at http://envfor.nic.in . This shall be advertised within seven days from the date of issue of the clearance letter, at least in two local newspapers that are widely circulated in the region of which one shall be in the vernacular language of the locality concerned and a copy of the same shall be forwarded to the concerned Regional Office of the Ministry.	Advertised in prominent news papers in local language and also English, and copies were forwarded to Regional Office, NodP, Chennai and SPOB.
xix)	The project authorities shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of the project.	Noted

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Laboratory Recognised by Ministry of Environment, Forests and Climate Change, Govt. New Delhi

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TEST REPORT

Test Report No. TLC/V/Env/CFL/200423

dt. 01.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of APRIL-2023

Date of monitoring	Time	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	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	36	78	14.0	19.4

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

For TEAM Labs and Consultants



Labs and Consultants

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Eav/CFL/246523

01.01.06.2023

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

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Star 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 $\mu\text{g}/\text{m}^3$	NOx Limit 80 $\mu\text{g}/\text{m}^3$
25.05.2023 To 26.05.2023	09.00 hrs 03.00 hrs	38	85	15.7	20.4

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

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ANIL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CPL/200623

on 01.07.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Crownmadel International Limited, Visakhapatnam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analysis Report for the Month of JUNE-2023

Date of monitoring	Time	PM ₁₀ Limit 50 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO _x Limit 50 $\mu\text{g}/\text{m}^3$
28.06.2023 To 29.06.2023	00.00 hrs To 09.00 hrs	40	88	16.2	22.8

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. TLCN/Env/CFL/280723

dt. 01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commonwealth International Limited, Yashdhamam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of JULY-2023

Date of monitoring	Time	PM 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	09.00 hrs to 09.30 hrs	36	88	14.2	16.5

All values are given in µg/m³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/N/Lab/CFL/28/9823

dt. 01.09.2023

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

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

Location of sampling: Near Ward

Date of Collection: As per details Given

Analysis Report for the Month of AUGUST-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 _x Limit 80 $\mu\text{g}/\text{m}^3$
29.08.2023 To 30.08.2023	09.00 to 05.00 hrs	44	96	16.5	21.4

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/CFL/2019023

01.05.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Cosmonet International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Ambient 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 _x 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/CIL/12/0423

dt. 02.05.2023

Description of Test: Ambient Air quality Monitoring inside the CPL
 Name of the client: Capemandel 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

Parameter		AAQ-1 Station at the Top of Chimneys	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM ₁₀	Minimum	30	30	34
	Maximum	41	42	43
	95%ile	41	42	43
	Average	37	38	39
PM _{2.5}	Minimum	42	43	42
	Maximum	75	82	82
	95%ile	75	82	82
	Average	59	75	75
SO ₂	Minimum	13.9	12.0	12.8
	Maximum	21.3	24.2	22.0
	95%ile	21.3	24.2	22.0
	Average	18.1	18.2	15.9
NO _x	Minimum	17.9	22.2	16.3
	Maximum	25.3	27.2	26.8
	95%ile	25.3	27.2	26.8
	Average	21.2	24.1	17.3
NH ₃	Minimum	0.02mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	95%ile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

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

For TEAM Labs and Consultants



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 CIL
 Name of the client: Ceyramandal 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 Calcutta	AAQ-2 Station near DG area	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM _{2.5}	Minimum	32	24	36
	Maximum	43	48	45
	95%ile	41	44	41
	Average	28	20	44
PM ₁₀	Minimum	42	40	48
	Maximum	79	84	82
	95%ile	78	84	82
	Average	71	76	77
SO ₂	Minimum	14.7	12.1	13.8
	Maximum	23.1	18.8	18.8
	Average	19.4	20.0	14.7
	95%ile	22.1	18.8	15.8
NO ₂	Minimum	14.1	12.8	14.9
	Maximum	22.9	16.7	18.6
	95%ile	22.9	16.7	18.6
	Average	21.8	14.2	18.8
NH ₃	Minimum	0.03ug/M ³	0.02ug/M ³	0.01 ug/M ³
	Maximum	0.03ug/M ³	0.02ug/M ³	0.02ug/M ³
	95%ile	0.03ug/M ³	0.02ug/M ³	0.02ug/M ³
	Average	0.03ug/M ³	0.02ug/M ³	0.02ug/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/CB/120623

dt.01.07.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Carromdel International Limited, Vundhagatnam
 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 Calcutta	AAQ-2 Station near DG WH	AAQ-3 Station at Gate-13 (Near Begging shed)
PM2.5	Maximum	29	30	29
	Average	47	42	44
	95%tile	42	43	44
	90%tile	31	28	36
	85%tile	26	44	41
PM 10	Maximum	58	85	83
	Average	78	85	81
	95%tile	78	85	76
	90%tile	79	76	76
	Average	13.6	14.7	11.0
SO ₂	Maximum	34.3	28.3	16.1
	Average	26.8	21.6	14.3
	95%tile	34.3	18.1	16.6
	90%tile	16.8	16.8	16.7
	Average	14.3	17.1	28.1
NO ₂	Maximum	34.3	27.1	28.1
	Average	24.3	27.1	28.1
	95%tile	24.3	27.1	28.1
	90%tile	21.4	23.8	17.7
	Average	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
NH ₃	Maximum	0.03mg/M ³	0.03mg/M ³	0.03mg/M ³
	Average	0.03mg/M ³	0.03mg/M ³	0.03mg/M ³
	95%tile	0.03mg/M ³	0.03mg/M ³	0.03mg/M ³
	90%tile	0.03mg/M ³	0.03mg/M ³	0.03mg/M ³
	Average	0.03mg/M ³	0.03mg/M ³	0.03mg/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/CB/12/0623

dt.01.07.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
Name of the client: Carromdel International Limited, Vundhagatnam
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 shed)
PM2.5	Maximum	29	30	29
	Average	47	42	44
	95%tile	42	43	44
	90%tile	31	28	36
	At 90%tile	26	44	41
PM 10	Maximum	50	44	43
	Average	78	85	81
	95%tile	78	85	81
	90%tile	79	76	76
	Average	13.6	14.7	11.0
SO ₂	Maximum	13.6	14.7	16.1
	Average	24.3	24.3	14.3
	95%tile	24.3	24.3	14.3
	90%tile	14.3	14.3	14.3
	Average	14.3	14.3	14.3
NO _x	Maximum	14.3	14.3	14.3
	Average	14.3	14.3	14.3
	95%tile	14.3	14.3	14.3
	90%tile	14.3	14.3	14.3
	Average	14.3	14.3	14.3
NH ₃	Maximum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Average	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	95%tile	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	90%tile	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	Average	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³

All values are expressed in µg/m³
except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

Registered Office :

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TEST REPORT

Test Report No: TLA/ANP/CIL/129802

06.01.2023

Description of Test:

Ambient Air quality Monitoring inside the CPL

Name of the client:

Commercial International Limited, Vadodhapatnam

Location of sampling:

Station as per details given

Period of Monitoring :

For the Month of AUGUST-2022

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

Parameters		AAQ-1 Station at the Top of Columns	AAQ-2 Station near DG sets	AAQ-3 Station at Gate-03 (Near Bagging plant)
PM _{2.5}	Maximum	35	34	32
	Minimum	42	45	46
	95%ile	42	45	46
	Average	37	40	36
PM ₁₀ $\mu\text{g}/\text{m}^3$	Maximum	52	60	55
	Minimum	86	83	75
	95%ile	86	83	75
	Average	71	78	69
SO ₂ $\mu\text{g}/\text{m}^3$	Maximum	13.8	14.9	9.7
	Minimum	12.3	17.8	14.8
	Average	19.7	12.8	12.3
	95%ile	12.3	17.8	14.8
NO _x $\mu\text{g}/\text{m}^3$	Maximum	15.0	13.8	12.8
	Minimum	12.8	16.8	18.7
	95%ile	12.8	16.8	18.7
	Average	10.2	21.7	15.5
NH ₃ $\mu\text{g}/\text{m}^3$	Maximum	0.01	0.01	0.01
	Minimum	0.02	0.02	0.01
	95%ile	0.02	0.01	0.01
	Average	0.015	0.02	0.01
O ₃ $\mu\text{g}/\text{m}^3$	Maximum	18	20	18
	Minimum	18	20	12
	95%ile	18	20	12
	Average	14.8	14.5	16.25
CO $\mu\text{g}/\text{m}^3$	Maximum	0.1	0.1	0.1
	Minimum	0.1	0.2	0.2
	95%ile	0.1	0.2	0.2
	Average	0.1	0.12	0.11
Pb $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Cd $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Mn $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
As $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Ni $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05

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TEST REPORT

Test Report No.TUC/VISW/CL/120923

01.03.19.2023

Description of Test:

Ambient Air quality Monitoring inside the CPL

Name of the client:

Crownmold International Limited, Visakhapatnam

Location of sampling:

Indiano as per details given

Period of Monitoring:

For the Month of SEPTEMBER-2023

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

Parameters		AAQ-1 Station at the Top of Calcutta	AAQ-2 Station near BG site	AAQ-3 Station at Gate-03 (Near Stopping plant)
PM ₁₀	Minimum	38	39	39
	Maximum	49	47	45
	SP ₅₀ able	46	42	40
	Average	34	35	34
PM ₁₀ $\mu\text{g}/\text{m}^3$	Minimum	95	90	98
	Maximum	74	76	73
	SP ₅₀ able	74	70	72
	Average	67	67	64
SO ₂ $\mu\text{g}/\text{m}^3$	Minimum	11.2	10.2	8.7
	Maximum	18.3	14.3	14.5
	Average	15.4	16.1	12.9
	SP ₅₀ able	18.3	14.3	14.5
NO _x $\mu\text{g}/\text{m}^3$	Minimum	13.8	15.4	15.3
	Maximum	20.4	18.0	16.8
	SP ₅₀ able	20.4	18.0	16.8
	Average	17.8	13.3	14.4
NH ₃ $\mu\text{g}/\text{m}^3$	Minimum	0.01	0.01	0.01
	Maximum	0.02	0.03	0.012
	SP ₅₀ able	0.02	0.03	0.012
	Average	0.015	0.007	0.011
O ₃ $\mu\text{g}/\text{m}^3$	Minimum	8	8	8
	Maximum	18	18	14
	SP ₅₀ able	18	18	14
	Average	11.2	13.3	11.2
CO $\mu\text{g}/\text{m}^3$	Minimum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	SP ₅₀ able	0.1	0.2	0.2
	Average	0.1	0.14	0.13
Pb $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Cd $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Cr $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Al $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05
Ri $\mu\text{g}/\text{m}^3$	<0.05	<0.05	<0.05	<0.05

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TEST REPORT

Test Report No. TLC/V/Env/CIL/15/9425

dt. 02.05.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Carromandil International Limited, Vishakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 25.04.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia + Nitrogen mg/l
1	Kamaladevi colony- No.1	7.4	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.4	Nil	0.3	Nil
3	Yeduru-anipalem-1	7.3	Nil	0.3	Nil
4	Yeduru-anipalem-2	7.4	Nil	0.3	Nil
5	Mulagada No.1	7.3	Nil	0.3	Nil
6	Mulagada No.2	7.4	Nil	0.3	Nil
7	Mulagada No.3	7.3	Nil	0.3	Nil
8	Kodigumudi village	7.4	Nil	0.2	Nil
	Protocol	IS-3025 Part 11-1982	APHA4500	SM 4500 F- B	APHA4500

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TEST REPORT

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

dt.01.06.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Carsumandel 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	Yeduruvaniyalem-1	7.5	Nil	0.3	Nil
4	Yeduruvaniyalem-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	Kodigandala dibba	7.4	Nil	0.2	Nil
	Proximal	IS:1025 Part 11-1980	APHA4500	ISE 4500 F- B	APHA4500C

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TEST REPORT

Test Report No. TLLCV/Env/CIL/159623

dt. 01.07.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Caromandel 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	P- mg/l	Ammonia N Nitrogen mg/l
1	Kamaladevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamaladevi colony- No.2	7.3	Nil	0.2	Nil
3	Yelloravanipalem-1	7.5	Nil	0.2	Nil
4	Yelloravanipalem-2	7.4	Nil	0.2	Nil
5	Malaguda No.1	7.5	Nil	0.3	Nil
6	Malaguda No.2	7.4	Nil	0.2	Nil
7	Malaguda No.3	7.7	Nil	0.3	Nil
8	Kodigandala ditha	7.4	Nil	0.2	Nil
	Protocol	IS:2025 Part 11-1983	APHA4500D	SM 4500 P- B	APHA4500C

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TEST REPORT

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

01.01.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 17.07.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia N Nitrogen mg/l
1	Kamalahalli colony- No.1	7.7	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.8	Nil	0.2	Nil
3	Yularavonipalem-1	7.9	Nil	0.2	Nil
4	Yularavonipalem-2	7.8	Nil	0.2	Nil
5	Matlagada No.1	7.5	Nil	0.3	Nil
6	Matlagada No.2	7.6	Nil	0.2	Nil
7	Matlagada No.3	7.7	Nil	0.2	Nil
8	Kodiyandula dibba	7.6	Nil	0.2	Nil
	Proximal	IS: 3025 Part 01-1982	APHA4400D	SM 4500 F- B	APHA4500C

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Test Report No. TLC/V/En/CLM/158823

dt. 01.09.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 19.08.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonical Nitrogen mg/l
1	Kamalahalli colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.7	Nil	0.2	Nil
3	Vidharavunipalem-1	7.5	Nil	0.2	Nil
4	Vidharavunipalem-2	7.7	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.2	Nil
6	Mulagada No.2	7.5	Nil	0.2	Nil
7	Mulagada No.3	7.6	Nil	0.2	Nil
8	Kodimandala ditch	7.6	Nil	0.2	Nil
	Present	IS:3045 Part 15- 1982	APSC42060	SM 4000 F: 0	APSC4206C

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TEST REPORT

Test Report No. TLC/V/Env/CIL/150923

dt.03.10.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 28.09.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia / Nitrogen mg/l
1	Kamatadevi colony- No.1	7.7	Nil	0.2	Nil
2	Kamatadevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvaigaluru-1	7.6	Nil	0.2	Nil
4	Yeduruvaigaluru-2	7.8	Nil	0.2	Nil
5	Malagada No.1	7.7	Nil	0.2	Nil
6	Malagada No.2	7.5	Nil	0.2	Nil
7	Malagada No.3	7.7	Nil	0.2	Nil
8	Kodipondala ditha	7.8	Nil	0.2	Nil
	Protocol	IS:3025 Part 11-1980	APHA4860	SM 4500 F- P	APHA480C

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Test Report No. TLC/V/Env/CFL/160023

dt.02.05.2023

Description of Test: Pore water analysis

Name of the client: Carromandel International Limited, Vockhapattam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pore-well	pH mg/l.
1	29.04.2023	CFL - colony	6.4
2	-	Near QP Gate	6.5
3	-	Near 7 th gate	6.5
4	-	CFL	6.6
		IS 10501 Permissible limit	1.2
	Protocol		IS 10501 P- II

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TEST REPORT

Test Report No. TLC/V/Ena/CFL/14/8523

28.05.2023

Description of Test: Pesticide analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide well	F- mg/L
1	28.05.2023	CFL - colony	6.5
2	"	Near 4 OP Gate	6.6
3	"	Near 7 th gate	6.5
4	"	CHC	6.7
		100000 Permissible limit	1.5
	Protocol		100000 P- D

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Test Report No. TLC/V/Env/CFL/14/0623

dt. 01.07.2023

Description of Test: Poize wells analysis

Name of the client: Carumandul International Limited, Vinadhapattanam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Poize-well	P- mg/L
1	16.06.2023	CFL - column	0.5
2	"	Near OP Gate	0.6
3	"	Near 7 th gate	0.5
4	"	CRC	0.7
		IS10586 Permissible limit	1.5
	Protocol		SR 400 T- D

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Test Report No. TLC/V/Eas/CPL/16/0723

dt. 01.08.2023

Description of Test: Petze wells analysis

Name of the client: Caromund International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Petze-well	P- mg/L
1	18.07.2023	CPL - colony	0.4
2	18.07.2023	Near 4 th Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS10500 Permissible limit	1.5
-	Presented		SM 0501-I-B

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TEST REPORT

Test Report No. TLC/V/Eve/CFL/16/8023

dt.01.09.2023

Description of Test: Piles with analysis

Name of the client: Carsumed International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Piles-wall	F- mg/L
1	12.08.2023	CFL - column	0.4
2	12.08.2023	Near 4 th OF Gate	0.5
3	12.08.2023	Near 7 th gate	0.6
4	12.08.2023	CRC	0.6
		IS18500 Permissible limit	1.5
	Protocol		SM 450 F-0

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TEST REPORT

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

16.03.2023

Description of Test: Piles 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 Piles-well	P- mg/L
1	26.09.2023	CFL - colony	0.5
2	26.09.2023	Stard OP Gate	0.6
3	26.09.2023	Near 7 th gate	0.7
4	26.09.2023	CSC	0.6
		IS18586 Permissible limit	1.5
	Protocol		20.4250 F- D

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TEST REPORT

Test Report No. T/CV/Env/CIL/11/9423

41.02.05.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

Carmandel International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	APPCB Standard Limit
1	Complex A	194433	Particulate matter	22	45 mg/Nm ³
			Ammonia	95	165.0 mg/Nm ³
			Fluoride	6.6	4.5 mg/Nm ³
2	Complex B	182773	Particulate matter	34	45 mg/Nm ³
			Ammonia	385	165.0 mg/Nm ³
			Fluoride	2.4	4.5 mg/Nm ³
3	Complex C	171269	Particulate matter	28	45 mg/Nm ³
			Ammonia	90	165.0 mg/Nm ³
			Fluoride	3.2	4.5 mg/Nm ³
4	Sulphuric acid plant-I	9602	Sulphur dioxide (80mg/Nm ³)	6.80 Kg/NM ³	1 Kg/NM ³
			Sulphur trioxide	Nil	6.25 Kg/NM ³
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	24591	Sulphur dioxide (80mg/Nm ³)	6.02 Kg/NM ³	6.65 Kg/NM ³
			Sulphur trioxide	Nil	6.25 Kg/NM ³
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-I	158651	Particulate matter	20	50 mg/NM ³
			Fluoride	6.8	20 mg/NM ³
7	Rock grinding unit (Dry)	8593	Particulate matter	27	50 mg/NM ³
			Total Fluorine	2.1	20 mg/NM ³
8	Wheel loader	727	Particulate matter	88	115 mg/NM ³
9	Phosphoric acid plant-2	26248	Particulate matter	24	50 mg/NM ³
			Total Fluorine	2.1	20 mg/NM ³
10	Rock grinding unit (Wet)	7423	Particulate matter	49	50 mg/NM ³
			Total Fluorine	2.6	20 mg/NM ³

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TEST REPORT

Test Report No. TLL/V/Env/CBL/11/8523

01.01.2023

Description of Test: Soona Emission Monitoring inside the CFL

Name of the client: Ceromandel International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Flow rate NM ³ /hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	104899	Particulate matter	28	45 mg/NM ³
			Ammonia	46	105.0 mg/NM ³
			Fluoride	6.7	4.5 mg/NM ³
2	Complex B	196420	Particulate matter	22	45 mg/NM ³
			Ammonia	80	105.0 mg/NM ³
			Fluoride	1.2	4.5 mg/NM ³
3	Complex C	194880	Particulate matter	18	45 mg/NM ³
			Ammonia	72	105.0 mg/NM ³
			Fluoride	1.4	4.5 mg/NM ³
4	Sulphuric acid plant-1	92918	Sulphur dioxide	0.1220 kg/NM ³ (95 mg/NM ³)	1 Kg/NM ³
			Sulphur trioxide	NA	0.25 Kg/NM ³
			Acid mist	NA	20 mg/NM ³
			Sulphur dioxide	0.0488 kg/NM ³ (39 mg/NM ³)	0.05 Kg/NM ³
			Sulphur trioxide	NA	0.25 Kg/NM ³
5	Sulphuric acid plant-2	348931	Sulphur dioxide	0.0488 kg/NM ³ (39 mg/NM ³)	0.05 Kg/NM ³
			Sulphur trioxide	NA	0.25 Kg/NM ³
			Acid mist	NA	20 mg/NM ³
			Particulate matter	19	30 mg/NM ³
			Fluoride	0.8	20 mg/NM ³
7	Rock grinding unit (RM)	9891	Particulate matter	28	45 mg/NM ³
			Total Fluoride	2.3	20 mg/NM ³
			Particulate matter	28	105 mg/NM ³
8	Wheel loader	8571	Particulate matter	22	30 mg/NM ³
			Total Fluoride	2.1	20 mg/NM ³
			Particulate matter	28	30 mg/NM ³
9	Phosphoric acid plant-1	20847	Particulate matter	22	30 mg/NM ³
			Total Fluoride	2.1	20 mg/NM ³
			Particulate matter	28	30 mg/NM ³
10	Rock grinding unit (Yre)	8216	Particulate matter	28	30 mg/NM ³
			Total Fluoride	2.1	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	101064	Particulate matter	22	45 mg/Nm ³
			Sulphate	65	105.0 mg/Nm ³
			Fluoride	1.8	4.0 mg/Nm ³
2	Complex B	101074	Particulate matter	20	45 mg/Nm ³
			Sulphate	39	105.0 mg/Nm ³
			Fluoride	1.8	4.0 mg/Nm ³
3	Complex C	101086	Particulate matter	15	45 mg/Nm ³
			Sulphate	81	105.0 mg/Nm ³
			Fluoride	1.8	4.0 mg/Nm ³
4	Sulphuric acid plant-I	98724	Sulphur dioxide	0.200kg/NT (215mg/Nm ³)	1 kg/NT
			Sulphur trioxide	901	0.20 kg/NT
			Acid pH	5.8	20 mg/pH ¹
			Sulphur dioxide	0.110kg/NT (90mg/Nm ³)	0.05 kg/NT
5	Sulphuric acid plant-II	10420	Sulphur trioxide	901	0.20 kg/NT
			Acid pH	5.8	20 mg/pH ¹
			Acid pH	5.8	20 mg/pH ¹
			Acid pH	5.8	20 mg/pH ¹
6	Phosphoric acid plant-I	109643	Particulate matter	20	45 mg/Nm ³
			Fluoride	6.8	20 mg/Nm ³
			Fluoride	6.8	20 mg/Nm ³
7	Rock grinding unit (Old)	8216	Particulate matter	28	45 mg/Nm ³
			Total Fluoride	2.2	20 mg/Nm ³
8	Waste Boiler	8192	Particulate matter	18	45 mg/Nm ³
9	Phosphoric acid plant-2	10586	Particulate matter	22	45 mg/Nm ³
			Total Fluoride	4.8	20 mg/Nm ³
10	Rock grinding unit (New)	8177	Particulate matter	25	45 mg/Nm ³
			Total Fluoride	3.8	20 mg/Nm ³

For Team Labs and Consultants



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Test Report No. TLC/V/Eas/CPL/16/0723

dt.01.08.2023

Description of Test: Petze wells analysis

Name of the client: Caromund International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Petze-well	P- mg/L
1	18.07.2023	CPL - colony	0.4
2	18.07.2023	Near 4 th Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS10500 Permissible limit	1.5
-	Presented		SM 0501-I-B

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TCA/V/Env/CBL/11/0023

D:01.08.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

Coromandel International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Plant unit (MMT/hr)	parameter	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	19405	Particulate matter	21	45 mg/NM ³
			Ammonia	80	105.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
2	Complex B	18371	Particulate matter	20	45 mg/NM ³
			Ammonia	80	105.0 mg/NM ³
			Fluoride	2.3	4.0 mg/NM ³
3	Complex C	18783	Particulate matter	24	45 mg/NM ³
			Ammonia	85	105.0 mg/NM ³
			Fluoride	1.6	4.0 mg/NM ³
4	Sulphuric acid plant-I	100477	Sulphur dioxide	0.1716 kg/MT (130mg/NM ³)	1 kg/MT
			Sulphur trioxide	50	0.25 kg/MT
			Acid mist	50	20 mg/NM ³
			Ammonia	80	105 mg/NM ³
5	Sulphuric acid plant-II	2246	Sulphur dioxide	0.1074 kg/MT (94mg/NM ³)	0.65 kg/MT
			Sulphur trioxide	50	0.25 kg/MT
			Acid mist	50	20 mg/NM ³
			Ammonia	80	105 mg/NM ³
6	Phosphoric acid plant-I	142374	Particulate matter	48	50 mg/NM ³
			Fluoride	5.1	20 mg/NM ³
			Ammonia	48	50 mg/NM ³
7	Rock grinding unit (70t)	8316	Particulate matter	48	50 mg/NM ³
8	Wheat Boiler	8466	Particulate matter	21	115 mg/NM ³
9	Phosphoric acid plant-2	27462	Particulate matter	42	50 mg/NM ³
			Total Fluoride	5.7	20 mg/NM ³
			Ammonia	49	50 mg/NM ³
10	Rock grinding unit (50t)	8177	Particulate matter	48	50 mg/NM ³
			Total Fluoride	48	20 mg/NM ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TGLC/Env/CL/H/0923

dx.03.09.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

Cerrumand International Limited, Vaidhyanagar

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	APPLS Standard Limit
1	Complex A	170480	Particulate matter	18	45 mg/Nm ³
			Ammonia	10	145.0 mg/Nm ³
			Fluoride	1.2	4.0 mg/Nm ³
2	Complex B	188955	Particulate matter	22	45 mg/Nm ³
			Ammonia	70	145.0 mg/Nm ³
			Fluoride	1.5	4.0 mg/Nm ³
3	Complex C	200180	Particulate matter	28	45 mg/Nm ³
			Ammonia	71	145.0 mg/Nm ³
			Fluoride	1.5	4.0 mg/Nm ³
4	Sulphuric acid plant-I	90760	Sulphur dioxide (100mg/Nm ³)	0.1540Kg/MET	1 Kg/MET
			Sulphur trioxide	88	0.10 Kg/MET
			Acid mist	88	20 mg/Nm ³
5	Sulphuric acid plant-II	10884	Sulphur dioxide (100mg/Nm ³)	0.120Kg/MET	0.40 Kg/MET
			Sulphur trioxide	90	0.10 Kg/MET
			Acid mist	90	20 mg/Nm ³
6	Phosphoric acid plant-I	143072	Particulate matter	30	50 mg/Nm ³
			Fluoride	0.9	20 mg/Nm ³
			Total Fluoride	0.9	20 mg/Nm ³
7	Rock grinding unit (Old)	8435	Particulate matter	45	50 mg/Nm ³
			Total Fluoride	0.9	20 mg/Nm ³
8	Wheat Sifter	8728	Particulate matter	28	115 mg/Nm ³
9	Phosphoric acid plant-2	24897	Particulate matter	40	50 mg/Nm ³
			Total Fluoride	0.8	20 mg/Nm ³
10	Rock grinding unit (New)	7990	Particulate matter	42	50 mg/Nm ³
			Total Fluoride	0.7	20 mg/Nm ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CIL/149423

dt:01.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carousadeli International Limited, Visakhapatnam

Location of sampling: Gullabapalem

Date of Collection: As per details given

Analysis Report for the Month of APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	24	45	10.2	13.3
06.04.2023	26	50	11.3	14.7
10.04.2023	28	58	10.4	19.6
12.04.2023	30	60	9.1	14.4
17.04.2023	32	65	12.2	17.7
19.04.2023	28	59	13.8	15.3
24.04.2023	25	53	9.5	14.7
Protocol	Gravimetric, CPCB method	ISSIS PART- 3 -2016	ISSIS PART- 3 -2016	ISSIS PART- 6 -2014

For TEAM Labs and Consultants



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TEST REPORT

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

dt.02.05.2023

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

Name of the client: Ceramandel International Limited, Visakhapatnam

Location of sampling: Malagada

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 40 $\mu\text{g}/\text{m}^3$
03.04.2023	28	57	10.1	13.3
06.04.2023	27	56	9.8	14.3
10.04.2023	30	60	12.7	16.6
12.04.2023	32	65	13.0	16.6
17.04.2023	29	60	10.2	15.5
19.04.2023	30	64	11.2	17.2
24.04.2023	26	55	9.7	13.7
Protocol	Gravimetric, CPCB method	ISIRI PART- 22 -1986	ISIRI PART- 2 - 2002	ISIRI PART- 6 -2004

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. TLCV/Env/CIL/339523

01.01.06.2022

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Ceromondel International Limited, Visakhapatnam

Location of sampling: Malagada

Date of Collection: As per details given

Analysis Report for the Month of MAY-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2022	30	58	11.5	15.5
04.05.2022	28	55	10.6	14.3
06.05.2022	31	62	12.5	16.6
11.05.2022	32	66	14.7	18.2
13.05.2022	28	58	10.5	15.5
14.05.2022	30	62	9.9	16.6
20.05.2022	27	56	9.2	14.7
Prepared	Crack mtrm, CPCB asset	ISS182 PART- 3 - 2016	ISS182 PART- 2 - 2016	ISS182 PART- 6 - 2016

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/14/0523

dt. 01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gollapalem

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 160 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
9.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.5	13.5
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, CPCB std	ISS102 PART- 21 -2009	ISS102 PART- 2 -2009	ISS102 PART- 4 -2009

For TEAM Labs and Consultants



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TEST REPORT

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

dt. 01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gollapalem

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 160 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
9.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.5	13.5
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, CPCB std	ISS102 PART- 21 -2009	ISS102 PART- 2 -2009	ISS102 PART- 4 -2009

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CH/134623

dt.01.07.2023

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

Name of the client: Caromandel International Limited, Visakhapatnam

Location of sampling: Malagada

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	13.8	13.8
07.06.2023	30	58	12.8	16.3
12.06.2023	32	62	12.5	16.6
15.06.2023	34	66	14.2	18.2
20.06.2023	25	55	10.2	15.5
23.06.2023	20	56	8.0	10.8
26.06.2023	29	60	9.7	14.3
Protocol	Gravimetric, CPCB method	ISIRI PART- 11 -2008	ISIRI PART- 2 -2001	ISIRI PART- 4 -2001

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

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TEST REPORT

Test Report No.TLC/V/Env/CIL/148723

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CIL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gullabapalem

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 _x Limit 80 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	IS1037 PART- 11 -1996	IS1037 PART- 2 -1991	IS1037 PART- 6 -1994

For TEAM Labs and Consultants

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TEST REPORT

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

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Virudhapattanam

Location of sampling: Melaguda

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	26	66	16.5	14.2
10.07.2023	30	60	21.8	15.2
13.07.2023	28	42	9.7	13.5
18.07.2023	18	40	8.0	18.6
21.07.2023	16	33	7.8	16.0
24.07.2023	28	40	8.8	18.8
Protocol	Good mon. CPCB and	ISO180 PART- 2 : 2004	ISO180 PART- 2 : 2001	ISO180 PART- 6 : 2004

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

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TEST REPORT

Test Report No. TLC/N/Eav/CIL/140823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gollalapalem

Date of Collection: As per details given

Analysis Report for the Month of AUGUST-2023

Date of monitoring	PM2.5 Limit 80 $\mu\text{g}/\text{m}^3$	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	88	9.8	14.2
04.08.2023	26	85	10.0	13.5
09.08.2023	30	60	9.6	12.7
11.08.2023	32	57	11.2	15.0
16.08.2023	27	52	9.5	11.6
18.08.2023	15	38	8.0	10.2
21.08.2023	24	50	9.7	11.2
Protocol	Certi- metric, CPCO method	IS5182 Part- 2 - 2006	IS5182 Part-3 - 2006	IS5182 Part-6 - 2010

For TEAM Labs and Consultants

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Test Report No. TLC/N/Env/CE/130823

01.01.09.2023

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

Name of the client: Carvamsat International Limited, Vankarpatnam

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	16	54	10.8	14.0
04.08.2023	17	55	9.9	13.2
09.08.2023	12	64	11.6	16.3
11.08.2023	18	80	10.2	13.5
16.08.2023	18	56	9.7	13.2
18.08.2023	12	38	8.1	11.3
21.08.2023	16	64	9.1	10.9
Protocol	Gravimetric, CPCB method	ISIRI PART.23 - 2006	ISIRI PART.12 - 2001	ISIRI: PART-6 - 2004

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

For TEAM Labs and Consultants

Labs and Consultants

Registered Office :

B-115, 116, 117 & 508, Annapurna Block, Aditya Enclave, Anwarpet, Hyderabad - 500028

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Laboratory Recognised by Ministry of Environment, Forests and Climate Change, Govt. New Delhi

NABL Accredited Laboratory

TEST REPORT

Test Report No. TLC/AV/Env/CH/13/0923

dt. 03.10.2023

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

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Malaguda

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 140 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	34	52	9.8	11.6
06.09.2023	20	48	8.9	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
23.09.2023	25	48	9.5	13.8
25.09.2023	26	54	9.7	14.2
Protocol	Gravimetric, CPCB manual	ISO10 PART- 21 -2006	ISO182 PART- 2 -2001	ISO182 PART- 4 -2004

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/Env/CTL/149923

dt.03.10.2023

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

Name of the client: Cosmotel International Limited, Vishakhapatnam

Location of sampling: Gullapalem

Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 50 µg/m ³	PM10 Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
04.09.2023	25	52	9.5	13.3
06.09.2023	22	46	8.8	12.4
11.09.2023	39	42	7.8	10.6
13.09.2023	16	35	7.2	10.6
19.09.2023	21	45	9.7	12.8
21.09.2023	25	48	9.5	11.6
25.09.2023	27	50	10.1	13.8
Protocol	Gravimetric, CPCB 4004	ISSAC PART- 20-2006	ISSAC PART- 2-1991	ISSAC PART- 2-1991

For TEAM Labs and Consultants



DRD-ITag-Commanet

Date: Nagayuki@n-24-ITag-Commanet
Sent: 21 December 2022 17:19
To: asomori@n-24@n-24-ITag-Commanet; asomori@n-24@n-24-ITag-Commanet
Cc: DRD-ITag-Commanet; Saito@n-24@n-24-ITag-Commanet; Nagayuki@n-24@n-24-ITag-Commanet
Subject: Head Super Nitro G-04 DRD-ITag-Commanet
Attachments: Half yearly EC Environment Clearance Compliance Report-2022
EC Compliance Data/Head Nitro/EC Part-2022 to Sup-04.pdf

Dear Sir,

Ref: A. No. J-0501/2022-04-01 dated 15.01.2022

Please find the attached half yearly compliance report of Environment Clearance issued by MOEF for manufacturing of Customized Petroleum Flare of head asomori@n-24@n-24-ITag-Commanet.

Period of submission : 1 Apr 2022 to Sep 2022
C/o : Commanet Information/EC, Head Super Nitro

Regards,
Saito@n-24@n-24-ITag-Commanet
Manager/Environment
Saito@n-24@n-24-ITag-Commanet

SAFE ENVIRONMENT DAYCARE

