

SHG-Vizag-Coromandel

From: Nagaraju D-Vizag-SHG-Vizag-Coromandel
Sent: 01 June 2023 17:18
To: ecompliance-ap@pec.in; kv242806@gmail.com; kv242806@gmail.com
Cc: Subhadeb Mondal-Vizag-Environment-Vizag-Coromandel; SHG-Vizag-Coromandel; Nagaraju D-Vizag-SHG-Vizag-Coromandel; Vinod Kumar Mishra-GH-SHG-Vizag-Coromandel
Subject: Half yearly SC (Environment Clearance) Compliance Report- kv24
Attachments: SC Compliance SA RA TSHG SHARP_Mar 23.pdf

Dear Sir,

Ref: E. No. 11-EN/2023-433 dated 27.08.2022

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for installation of proposed Sulphuric acid (200000 NLT) and Phosphoric acid (200000 NLT) storage tanks along with unloading facilities and pipelines at the existing fertiliser plant – CEC Clearance.

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

Nagaraju,
Nagaraju P
Manager-Environment
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Coromandel International Limited, Visakhapatnam

Compliance status of Environment clearance

F.No.15-25/2015-IA-III dated 27 June 2017

(For the period from Oct-2021 to March-2022)

Installation of proposed Sulphuric acid (2x12500 MT) and Phosphoric acid (2x10000 MT) storage tanks along with unloading facilities and pipelines at the existing Fertiliser Wharf of Coromandel International Limited, Visakhapatnam (Andhra Pradesh) - CR2 Clearance

S.No.	Description	Compliance
PART A – SPECIFIC COMPLIANCE		
I	Construction Phase:	
(i)	The project proponent shall ensure that the guidelines for building and construction projects issued under the Ministry's OAI No.19-D/3313-CLB dated 30th June, 2015, are followed to ensure sustainable environmental management.	Noted
(ii)	All conditions/recommendations stipulated by the Andhra Pradesh Coastal Zone Management Authority (APCZMA) shall strictly be complied with.	Noted and complied
(iii)	Provisions of Manufacture, Storage and Transport of Hazardous Chemical Rules, 1989 shall be strictly implemented and compliance therewith submitted to the regional office of the Ministry and the concerned agency in the State Government.	Noted and followed
(iv)	The project proponent shall obtain all necessary clearances/ permission from the concerned authorities as applicable.	Noted
(v)	Consent to (strengthen) shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1986 and the Water (Prevention and Control of Pollution) Act, 1974.	Consent for Operation obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1986 and the Water (Prevention and Control of Pollution) Act, 1974.
(vi)	The construction in CR2 area shall strictly in accordance with the provisions of CRZ Notification, 2011 and is oriented from time to time. There shall be no dredging or alteration of the sand dunes, natural features including landscape changes for beachification, recreation and other such purpose.	The construction in CR2 area were done strictly in accordance with the provisions of CRZ Notification and amendment thereof
(vii)	All waste (liquid and solid) arising from the proposed development will be disposed off as per the norms prescribed by State Pollution Control Board. There shall not be any disposal of	No effluent generation from the storage tanks. Hence, no disposal to the sea or coastal water bodies.

Coromandel International Limited, Visakhapatnam

S.No.	Description	Compliance
	untreated effluent is in the regional water bodies.	
(x)	No permanent lake or pond, machinery and material storage is allowed in OGD area.	Noted and followed.
(xi)	The project proponent shall ensure that no untreated wastewater is discharged outside the project premises. It will be ensured that the wastewater generated is treated in STP and is reused for landscaping, flushing and chiller cooling purposes within the development. The project proponent should also make alternate arrangements for sanitation during due to malfunctioning of STP. There shall be regular monitoring of the results of standard parameters of the effluent discharged from STP under supervision of the MPCB.	No effluent generated from the storage tanks hence no disposal.
(xii)	There shall be ground water draw within OGD without prior approval of the Central Ground Water Authority.	Not applicable as no ground water is being used. Water source is GWSB.
(xiii)	Temporary toilets will be provided for all construction labour. Suitable toilet fixtures for water consumption shall be provided. Fixtures for showers, toilet flushing and drinking should be of low flow either be out of automatic or pressure reducing devices or sensor based control.	Arrangements made as per the requirement.
(xiv)	The project proponent shall implement all mitigation measures recommended under the Environmental Management Plan for the project.	Noted.
(xv)	Disposal of waste during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only is approved that with the approval of competent authority.	Noted.
(xvi)	Soil and ground water samples will be tested to ascertain that there is no threat to ground water quality by leaching of heavy metals and other toxic contaminants.	Noted, if it storage tanks only and will be done periodically.
(xvii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approvals of the Waste Pollution Control Board.	Not applicable as no hazardous waste is generated from the project.
(xviii)	Ambient noise levels should conform to residential standards both during day and night as per Noise Pollution (Control and Regulation) Rules, 2000. Incremental pollution loads on the ambient air and noise quality should be closely monitored during construction phase. Adequate	Ambient noise levels are within the standard.

Coramandel International Limited, Visakhapatnam

S.No.	Description	Compliance
	measures should be made to reduce ambient air and noise level during construction phase, so as to conform to the stipulated standards by OCA/ CPCB.	
F	Operation Phase	
(i)	A 2% of the cost of the project shall be apportioned for environmental protection and conservation measures, to be spent by the project proponent towards fulfilling its Corporate Environmental Responsibility (CER) during the currency of the project. Proper record and account of measures taken should be maintained and should also be submitted to the CMAA every year/semi.	Corporate Environmental Responsibility as per the requirements mentioned and verified by.
(ii)	The quantity of fresh water usage, water recycling and rainwater harvesting shall be monitored and recorded to monitor the water balance. The record shall be submitted to the Regional Office, of the Ministry along with its monthly monitoring reports.	As the project is storage tank, only during construction stage the water usage was there, there after no water usage.
(iii)	The treated wastewater shall be recycled and reused to reduce the demand of fresh water as consumed.	As the project is storage tank, only during construction stage the water usage was there, there after no water usage.
(iv)	Solid waste management shall be collected, treated and disposed in accordance with the Solid Waste Management Rules, 2016.	All the construction debris generated were utilized to the maximum extent within the client premises only.
(v)	Installation of the Storage Treatment Plant (STP), as may be applicable, should be verified by an independent expert and a report in this regard should be submitted to the Ministry before the project is commissioned for operation. Treated effluent emerging from STP shall be recycled/ reused to the maximum extent possible. Treatment of 100% grey water by decentralized treatment should be done. Discharge of treated effluent shall conform to the norms and standards of the State Pollution Control Board. Necessary measures should be made to mitigate the odour problem from STP.	As the project is storage tank, STP not envisaged.
(vi)	Renewable power generating unit proposed as source of back-up power for elevators and common area illumination during operation phase should conform to rules made under the Environment Protection Act, 1986 for diesel generator sets.	Renewable will be maintained as per the EPA act 1986. No DG required.
(vii)	Green belt of local species with adequate width and density shall be developed along the periphery of the plot except in areas not possible.	Plant having L30 area green belt, however development of greenbelt will be continued.

Coromandel International Limited, Visakhapatnam

S.No.	Description	Compliance
	such as gates.	
(vi)	Rain water harvesting system from roof run off and surface run off, shall be implemented. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease. The borewell for concrete recharging should be kept at least 3 m above the highest ground water table.	Noted.
(vii)	Energy conservation measures like installation of CFLs/TLs for the lighting the areas outside the building should be integral part of the project design and should be in place before project commissioning. Use CFLs and TLs should be properly collected and disposed off/then for recycling as per the prevailing guidelines/rule of the regulatory authority to avoid mercury contamination. Use of solar panels may be done to the extent possible.	All the energy conservation related to the lighting is implemented.
Part – II. GENERAL CONDITIONS		
(i)	A copy of the clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The Clearance letter shall also be displayed at the Regional Office, District Industries Centre and Collector's Office/ Tahsildar's office for 30 days.	Complied.
(ii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to the Ministry and its concerned Regional Office.	Will be monitored.
3	Concealing factual data or submission of false/fabricated data and failure to comply with any of the conditions mentioned above may result in withdrawal of this clearance and strict action under the provisions of Environment Protection Act, 1986.	Noted & will be followed
4	The above stipulations would be enforced along with under the provisions of the Water Prevention and Control of Pollution Act, 1974, the Air Prevention and control of Pollution Act, 1981, the Environment Protection Act, 1986, the Public Liability (Insurance) Act, 1991, the Bhopal Gas Tragedy, 1984 and the OTE Notification, 2011.	Noted
5	Officials from the Regional Office of HOD/SCC, Nagpur who would be monitoring the implementation of environmental safeguards should be given full cooperation, facilities and discussions/data by the project proponents during	Noted

Coromandel International Limited, Visakhapatnam

S.No.	Description	Compliance
	These inspections. A complete set of all the documents submitted to MoEF&CC, shall be forwarded to the APCCF, Regional Office of MoEF&CC, Nagpur.	
6	In the case of any changes in the scope of the project, the project would require a fresh approval by this Ministry.	Noted
7	The Ministry reserves the right, to add additional safeguard measures subsequently, if found necessary, and to take action including revoking of the environment clearance under the provisions of the Environmental Protection Act, 1986, to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner.	Noted
8	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife Protection Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Noted
9	The project proponent should advertise in at least two local newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded CRZ Clearance and copies of clearance letters are available with the State Pollution Control Board (SPCB) and may also be seen on the website of the Ministry of Environment, Forest and Climate Change at http://www.mefcc.nic.in . The advertisement should be made within seven days from the date of receipt of the Clearance letter and a copy of the same should be forwarded to the Regional office of this Ministry at Nagpur.	Complied
10	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Foundation Vs Union of India in Writ Petition (Civil) No.400 of 2004 as may be applicable to this project.	Noted
11	Any appeal against this clearance shall be with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 15 of the National Green Tribunal Act, 2010.	Noted
12	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, IRIs	Noted & Complied

Coromandel International Limited, Visakhapatnam

S.No.	Description	Compliance
	Parade/Municipal Corporation, Urban Local Body and the local NGO, if any, from whom suggestions/ representations, if any, were received while processing the proposal. The clearance letter shall also be put on the website of the company by the proponent.	
13	The proponent shall update the status of compliance of the stipulated conditions, including results of monitored data on their website and shall update the same periodically. It shall simultaneously be sent to the Regional Office of MoEF&CC, the respective Zonal Office of CPCB and the SPCB. The criteria pollutant levels namely SO_2 , PM_{10} , SO_2 , NO_x (ambient levels as well as stack emissions) or critical sectoral parameters, indicated for the project shall be monitored and displayed at convenient location near the main gate of the company in the public domain.	Noted & Complied
14	The environmental statement for each financial year ending 31 st March in Form IV as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Office of the Ministry by e-mail.	Noted & Complied

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TEST REPORT

Test Report No. TML/CN/Env/CIL/12/1622

dt: 02.11.2022

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

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

Parameters		AAQ-1 Station at the Top of Calumet	AAQ-2 Station near DG site	AAQ-3 Station at Gate - 13 (Near Bagging shed)
PM ₁₀	Minimum	23	24	24
	Maximum	44	48	42
	Std. Dev.	44	48	42
	Average	25	28	33
PM _{2.5}	Minimum	31	35	30
	Maximum	83	85	88
	Std. Dev.	61	83	38
	Average	66	72	67
SO ₂	Minimum	10.8	13.9	7.0
	Maximum	25.4	31.5	22.2
	Std. Dev.	10.1	1.7	12.3
	Average	25.5	21.2	23.8
NO ₂	Minimum	12.7	14.8	16.2
	Maximum	34.3	31.8	26.0
	Std. Dev.	14.3	22.0	29.0
	Average	17.9	22.0	14.0
NH ₃	Minimum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Maximum	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	Std. Dev.	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

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TEST REPORT

dt: 01.12.2022

Test Report No. TLC/VEP/CHL/12/1422

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

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

Parameters		A AQ-1 Station at the Top of Cofortek	A AQ-2 Station near DG shed	A AQ-3 Station at Gate - 03 (Near Sagarwaj gate)
PM _{2.5}	Maximum	22	33	26
	Minimum	02	08	02
	Average	02	05	02
	Standard	30	40	37
PM ₁₀	Maximum	68	64	62
	Minimum	8	18	12
	Average	18	08	12
	Standard	71	73	72
SO ₂	Maximum	14.5	18.2	10.5
	Minimum	04.3	05.7	04.0
	Average	06	06.5	02.5
	Standard	24.5	26.7	14.0
NO ₂	Maximum	15.5	19.2	10.0
	Minimum	02.5	01.2	04.0
	Average	02.5	01.2	02.2
	Standard	02.5	02.5	02.2
NH ₃	Maximum	0.12mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Minimum	0.02mg/M ³	0.00mg/M ³	0.00mg/M ³
	Average	0.02mg/M ³	0.00mg/M ³	0.00mg/M ³
	Standard	0.02mg/M ³	0.00mg/M ³	0.00mg/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. T/C/01/En/CIL/12/1223

dt. 02.04.2023

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

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

Parameters		AAQ-1 Station at 5m Top of Cylinders	AAQ-2 Station near DO well	AAQ-3 Station at Gate -13 (Near Staging Area)
PM ₁₀	Minimum	34	27	23
	Maximum	42	45	44
	Average	42	45	40
	Std. Dev.	38	41	38
PM _{2.5}	Minimum	32	29	26
	Maximum	80	84	88
	Average	82	86	80
	Std. Dev.	72	74	71
SO ₂	Minimum	16.2	21.2	12.8
	Maximum	22.2	22.4	15.2
	Average	15.2	16.4	14.2
	Std. Dev.	22.2	24.2	18.2
NO ₂	Minimum	16.6	18.2	14.2
	Maximum	22.2	19.8	16.8
	Average	22.2	20.2	16.8
	Std. Dev.	22.4	25.2	15.4
NH ₃	Minimum	0.02 mg/m ³	0.02 mg/m ³	0.01 mg/m ³
	Maximum	0.02 mg/m ³	0.04 mg/m ³	0.02 mg/m ³
	Average	0.02 mg/m ³	0.04 mg/m ³	0.02 mg/m ³
	Std. Dev.	0.02 mg/m ³	0.02 mg/m ³	0.01 mg/m ³

All values are expressed in µg/m³
 except Ammonia

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TEST REPORT

Test Report No. TLLC/V/Env/CH/12/0123

dt. 02.02.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Camanahel International Limited, Visakhapatnam
 Location of sampling: Site/area as per details given
 Period of Monitoring: For the Month of JANUARY-2023

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

Parameters		AAQ-1 Station at the Top of Chimney	AAQ-2 Station near DG sets	AAQ-3 Station in Gate-45 Other Sampling point
PM ₁₀	Maximum	38	38	34
	Minimum	45	45	40
	Average	45	45	42
	Std. Dev.	38	41	38
PM _{2.5}	Maximum	37	72	64
	Minimum	8	34	36
	Average	45	36	36
	Std. Dev.	72	75	72
SO ₂	Maximum	15.8	17.8	17.7
	Minimum	21.8	21.8	21.8
	Average	21.8	21.8	21.8
	Std. Dev.	21.8	21.8	21.8
NO _x	Maximum	16.8	16.8	16.7
	Minimum	21.8	21.8	21.8
	Average	21.8	21.8	21.8
	Std. Dev.	21.8	21.8	21.8
NH ₃	Maximum	0.12mg/M ³	0.12mg/M ³	0.09mg/M ³
	Minimum	0.12mg/M ³	0.12mg/M ³	0.12mg/M ³
	Average	0.12mg/M ³	0.12mg/M ³	0.12mg/M ³
	Std. Dev.	0.12mg/M ³	0.12mg/M ³	0.12mg/M ³

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

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TEST REPORT

Test Report No. TLCN/Env/CIL/12/0213

01.02.2023

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

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

Parameters		A40-1 Station at (On Top of Calcrete)	A40-2 Station (near SH 40)	A40-3 Station at Gate -II (Near Sampling plant)
PM ₁₀	Maximum	32	25	36
	Minimum	16	16	49
	95%ile	44	44	42
	Average	32	48	32
PM _{2.5}	Maximum	64	48	63
	Minimum	76	64	64
	95%ile	76	61	64
	Average	61	76	74
SO ₂	Maximum	11.3	11.2	11.6
	Minimum	10.3	10.2	10.6
	Average	10.3	10.6	11.2
	95%ile	10.6	10.2	11.6
NO ₂	Maximum	18.3	16.2	16.2
	Minimum	12.7	16.2	16.2
	95%ile	12.7	16.2	16.2
	Average	16.2	16.2	16.2
NH ₃	Maximum	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³
	Minimum	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³
	95%ile	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³
	Average	0.07mg/M ³	0.07mg/M ³	0.07mg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



Lab and Consultants

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TEST REPORT

Test Report No.TLOV/Ea/CH/8490323

41.01.04.2023

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

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

Parameter		AAQ-1 Station at Ela Top of Cylinders	AAQ-2 Station near BG 4th	AAQ-3 Station at Gate -32 (Near Bagging plant)
PM _{2.5}	Maximum	38	25	22
	Minimum	36	41	42
	99%ile	38	41	41
	Average	39	39	37
PM ₁₀	Maximum	55	59	60
	Minimum	52	59	58
	99%ile	52	59	58
	Average	55	55	55
SO ₂	Maximum	8.2	8.0	8.5
	Minimum	16.2	16.1	12.4
	99%ile	16.2	16.1	12.4
	Average	8.2	8.0	8.5
NO ₂	Maximum	11.6	11.3	12.0
	Minimum	11.3	11.4	11.3
	99%ile	11.3	11.4	11.3
	Average	11.6	11.4	11.4
CO	Maximum	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	Minimum	0.01mg/M ³	0.01mg/M ³	0.01mg/M ³
	99%ile	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 $\mu\text{g}/\text{m}^3$
except Arsenic

For TEAM Lab and Consultants



Labo and Consultants

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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt. New Delhi
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Test Report No. TMLCV/Env/CFL/14/1022

41.02.21.2022

Description of Test: **Piez wells analysis**Name of the client: **Crownmud International Limited, Virudhachapuram**Location of sampling: **Stations as per details given**

Date of Sample collection : As per details given

No	Date	Location of Piezo well	F - sigl.
1	26.10.2022	CFL - colony	0.3
2	*	Near 4 OF Gate	0.4
3	*	Near 7 th gate	0.5
4	*	S.T.Nalla	0.9
		ISO8584 Permissible limit	1.5
	Protocol		BM-000 P-D

For TEAM Labo and Consultants



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Test Report No. TLECV/Kar/CPL/10/1122

dt. 02.11.2022

Description of Test: Polysulfide analysis

Name of the client: Commandat International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: As per details given

No	Date	Location of Polysulfide	P- mg/L
1	26.11.2022	CPL - inflow	0.25
2	"	Near 4 th OP Gate	0.35
3	"	Near 7 th gate	0.5
4	"	B.T. Naidu	0.8
		IS (10000) Perchloric acid	1.5
	Provisional		100.000 P- D

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLCV/Kas/CFL/14/1222

09.02.2023

Description of Test: Pesticide analysis

Name of the client: Carrommid International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No.	Date	Location of Pesticide well	P- mg/L
1	26.11.2022	CFL - colony	0.3
2	-	Neard OP Gate	0.3
3	-	Near 7 th gate	0.3
4	-	B.T. Naidu well	0.3
		IN10204 Permethrin Insect	1.3
	Protocol		100 mg/L F.D

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Env/CFL/06/0123

dt. 01.01.2023

Description of Test: Pesticide analysis

Name of the client: Commandat International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: As per details given

No	Date	Location of Pesticide	P- mg/L
1	19.01.2023	CFL - colony	0.4
2	"	Near 4 OT Gate	0.3
3	"	Near 7 th gate	0.4
4	"	B.T. Fields	1.8
		1510500 Permissible limit	1.5
	Prepared		151-050 P-0

For TEAM Labs and Consultants



Labs and Consultants

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IS461 Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CPL/06/0223

06.02.2023

Description of Test: Petco wells analysis

Name of the client: Commandat International Limited, Visakhapatnam

Location of sampling: Station as per details given

Date of Sample collection : As per details given

No	Date	Location of Petco well	F- mg/L
1	23.02.2023	CPL - colony	0.3
2	"	Near 4 th OP Gate	0.6
3	"	Near 7 th gate	0.3
4	"	B.T/Nalla junction	0.8
		ISI 16596 Permissible limit	1.5
	Protocol		SU 400 F-D

For TEAM Labs and Consultants



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Test Report No./TLCV/Team/CFL/180323

dtd.01.04.2023

Description of Test: Pesticide residue

Name of the client: Command International Limited, Vijaydurgam

Location of sampling: Station as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide	P. mg/L
1	21.01.2023	CFL - colony	0.3
2	"	Near OP Gate	0.5
3	"	Near 7 th gate	0.4
4	"	CRC	0.8
		15/1000 Permissible limit	1.5
	Prepared		for 400 T-0

For TEAM Lab and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TEL/001/rev/CH/11/1023

4.12.21.2023

Description of Test:

Source Emission Monitoring inside the CHL

Name of the client:

Commandal International Limited, Visakhapatnam

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

WINDUCT/STACK EMISSION MONITORING FOR THE MONTH OF OCTOBER, 2023

S.No	Stack attached to	Flow rate NM ³ /hr	parameters	Conc. ug/NM ³	ATPCL Standard Limit
1	Complex A	10942	Particulate matter	32	45 ug/NM ³
			Acidic gas	25	100.4 ug/NM ³
			Fluoride	0.2	44 ug/NM ³
2	Complex B	18099	Particulate matter	26	45 ug/NM ³
			Acidic gas	22	100.4 ug/NM ³
			Fluoride	0.2	44 ug/NM ³
3	Complex C	18016	Particulate matter	19	45 ug/NM ³
			Acidic gas	22	100.4 ug/NM ³
			Fluoride	0.5	42 ug/NM ³
4	Sulphuric acid plant I	97182	Sulphur dioxide (H ₂ SO ₄ /NM ³)	6.24 Kg/NM ³	1 Kg/Hr
			Sulphur trioxide	54	6.25 Kg/NM ³
			Acid mist	68	25 ug/NM ³
5	Sulphuric acid plant II	24719	Sulphur dioxide (H ₂ SO ₄ /NM ³)	8.946 Kg/NM ³	6.05 Kg/NM ³
			Sulphur trioxide	50	6.35 Kg/NM ³
			Acid mist	50	25 ug/NM ³
6	Phosphoric acid plant I	94992	Particulate matter	31	50 ug/NM ³
			Fluoride	0.8	20 ug/NM ³
			Total Phosphate	1.6	20 ug/NM ³
7	Rock grinding unit (RM)	5782	Particulate matter	26	46 ug/NM ³
			Total Phosphate	1.6	20 ug/NM ³
8	Wheat flour	12085	Particulate matter	25	104 ug/NM ³
9	Phosphoric acid plant II	24585	Particulate matter	27	50 ug/NM ³
			Total Phosphate	4.3	20 ug/NM ³
10	Rock grinding unit (New)	11771	Particulate matter	28	46 ug/NM ³
			Total Phosphate	4.7	20 ug/NM ³

For TEAM Labs and Consultants



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TEST REPORT

01.02.2022

Test Report No: TLL/VR/01/CL/01/022

Description of Test: Source Routine Monitoring (soils due CH)

Name of the client: Cammeda International Limited, Madhupatnam

Location of sampling: stacks attached in respective place as per details given

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF NOVEMBER 2022

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	AFFCB standard Limit
1	Complex A	17282	Particulate matter	15	45 mg/Nm ³
			Acidic	95	1650 mg/Nm ³
			Fluoride	1.1	1.0 mg/Nm ³
			Mercuric	20	45 mg/Nm ³
2	Complex B	16151	Particulate matter	15	45 mg/Nm ³
			Acidic	75	1650 mg/Nm ³
			Fluoride	1.0	1.0 mg/Nm ³
			Mercuric	19	45 mg/Nm ³
3	Complex C	10990	Particulate matter	15	45 mg/Nm ³
			Acidic	50	1650 mg/Nm ³
			Fluoride	1.0	1.0 mg/Nm ³
			Mercuric	19	45 mg/Nm ³
4	Sulphuric acid plant-1	9025	Sulphur dioxide (11000/Nm ³)	11400 mg/Nm ³	1 kg/Nm ³
			Sulphur trioxide (11000)	70	4.0 kg/Nm ³
			acid mist	70	20 mg/Nm ³
			Mercuric chloride (11000/Nm ³)	11000 mg/Nm ³	6.40 kg/Nm ³
5	Sulphuric acid plant-2	22802	Sulphur dioxide (11000/Nm ³)	70	4.0 kg/Nm ³
			Sulphur trioxide (11000)	70	20 mg/Nm ³
			acid mist	70	20 mg/Nm ³
			Mercuric chloride (11000/Nm ³)	70	6.40 kg/Nm ³
6	Phosphoric acid plant-1	10400	Particulate matter	15	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	34	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
7	Rock grinding unit (GR)	10400	Particulate matter	15	45 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
			Fluoride	2.7	10 mg/Nm ³
			Mercuric	2.7	10 mg/Nm ³
8	Waste Boiler	18075	Particulate matter	15	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	34	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
9	Phosphoric acid plant-2	26704	Particulate matter	15	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	34	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³
10	Rock grinding unit (New)	11511	Particulate matter	15	45 mg/Nm ³
			Fluoride	4.2	20 mg/Nm ³
			Mercuric	34	20 mg/Nm ³
			Total Phosphate	2.4	20 mg/Nm ³

For TEAM Lab and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TCM/001/01-128

06/02/2023

Description of Test:

Source Emission Monitoring Inside the CFI.

Name of the client:

Carnaud International Limited, Visakhapatnam

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

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

S/N	Stack/attached to	Flow rate m ³ /min	parameter	Conc. mg/NM ³	GTED Standard Limit
1	Complex A	1700	Particulate matter	30	30 mg/NM ³
			Sulphur Dioxide	33	33.3 mg/NM ³
			Fluoride	33	33 mg/NM ³
2	Complex B	1700	Particulate matter	30	30 mg/NM ³
			Sulphur Dioxide	33	33.3 mg/NM ³
			Fluoride	33	33 mg/NM ³
3	Complex C	2800	Particulate matter	30	30 mg/NM ³
			Sulphur Dioxide	33	33.3 mg/NM ³
			Fluoride	33	33 mg/NM ³
4	Stacks with plant I	1000	Sulphur dioxide acid gas	4200mg/NM ³ (100mg/NM ³)	1 kg/NM ³
			Sulphur trioxide	30	3.0 kg/NM ³
			acid gas	30	30 mg/NM ³
5	Stacks with plant II	1000	Sulphur dioxide acid gas	4400mg/NM ³ (100mg/NM ³)	3.0 kg/NM ³
			Sulphur trioxide	30	3.0 kg/NM ³
			acid gas	30	30 mg/NM ³
6	Phosphate unit plant I	1000	Particulate matter	30	30 mg/NM ³
			Fluoride	33	33 mg/NM ³
7	Rock grinding unit (I&II)	400	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³
8	Plant Boiler	900	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³
9	Phosphate unit plant II	2000	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³
10	Rock grinding unit (I&II)	400	Particulate matter	30	30 mg/NM ³
			Total Dusts in air	33	33 mg/NM ³

For TEAM Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TEL/Env/CBL/11/0123

06.05.2023

Description of Test:

Source Exhausts Monitoring inside the CPL

Name of the client:

Carvedo International Limited, Visakhapatnam

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

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF JANUARY 2023

S.No	Stack attached to	Flow rate NM ³ /hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	10418	Particulate matter	27	45 mg/NM ³
			Sulphur dioxide	08	105.0 mg/NM ³
			Fluoride	1.0	6.0 mg/NM ³
2	Complex B	10005	Particulate matter	20	45 mg/NM ³
			Ammonia	119	105.0 mg/NM ³
			Fluoride	0.9	6.0 mg/NM ³
3	Complex C	17811	Particulate matter	15	45 mg/NM ³
			Ammonia	180	105.0 mg/NM ³
			Fluoride	0.2	6.0 mg/NM ³
4	Sulphuric acid plant-I	97473	Sulphur dioxide	6.146kg/M ³ (225mg/NM ³)	1 kg/M ³
			Sulphur trioxide	NA	6.35 kg/M ³
			Acid mist	NA	10 mg/NM ³
			Ammonia	NA	10 mg/NM ³
5	Sulphuric acid plant-II	33350	Sulphur dioxide	6.686kg/M ³ (236mg/NM ³)	1 kg/M ³
			Sulphur trioxide	NA	6.35 kg/M ³
			Acid mist	NA	10 mg/NM ³
			Ammonia	NA	10 mg/NM ³
6	Phosphate acid plant-I	140788	Particulate matter	20	30 mg/NM ³
			Fluoride	1.4	20 mg/NM ³
7	Rock grinding unit (NA)	18811	Particulate matter	18	30 mg/NM ³
			Total Fluoride	1.0	20 mg/NM ³
8	Wheat Boiler	9822	Particulate matter	24	30 mg/NM ³
9	Phosphate acid plant-II	18814	Particulate matter	22	30 mg/NM ³
			Total Fluoride	1.0	20 mg/NM ³
10	Rock grinding unit (flow)	1546	Particulate matter	22	30 mg/NM ³
			Total Fluoride	1.0	20 mg/NM ³

For TEAM Labs and Consultants :



Labs and Consultants

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TEST REPORT

Test Report No. TLM/Env/CIL/21/0223

01.02.2023

Description of Test:

Source Emission Monitoring inside the CPL

Name of the client:

Carnaud International Limited, Visakhapatnam

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

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF FEBRUARY 2023

S.No.	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	APPC Standard Limit
1	Complex A	80000	Particulate matter	30	45 mg/Nm ³
			Ammonia	40	100 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
2	Complex B	21000	Particulate matter	30	45 mg/Nm ³
			Ammonia	40	100 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
3	Complex C	16000	Particulate matter	30	45 mg/Nm ³
			Ammonia	40	100 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
4	Sulphuric acid plant I	10000	Sulphur dioxide	0.0004 g/m ³ (20mg/Nm ³)	1 mg/Nm ³
			Sulphur trioxide	10	0.10 kg/Nm ³
			Sulphur oxide	10	0.10 kg/Nm ³
			Sulphur dioxide	0.0004 g/m ³ (20mg/Nm ³)	0.10 kg/Nm ³
			Sulphur trioxide	10	0.10 kg/Nm ³
5	Sulphuric acid plant II	10000	Sulphur dioxide	0.0004 g/m ³ (20mg/Nm ³)	0.10 kg/Nm ³
			Sulphur trioxide	10	0.10 kg/Nm ³
			Sulphur oxide	10	0.10 kg/Nm ³
6	Phosphate acid plant I	15000	Particulate matter	30	45 mg/Nm ³
			Fluoride	0.3	0.4 mg/Nm ³
7	Acid grinding unit (I&II)	1600	Particulate matter	30	45 mg/Nm ³
			Total Fluoride	0.3	0.4 mg/Nm ³
8	Waste boiler	4200	Particulate matter	30	45 mg/Nm ³
9	Phosphate acid plant II	20000	Particulate matter	30	45 mg/Nm ³
			Total Fluoride	0.3	0.4 mg/Nm ³
10	Acid grinding unit (I&II)	1600	Particulate matter	30	45 mg/Nm ³
			Total Fluoride	0.3	0.4 mg/Nm ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Lab/CE/15/1822

04.02.22.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Commercial International Limited, Visakhapatnam

Location of sampling: Suddam as per details given

Date of Sample collection: 21.01.2022

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia & Nitrogen mg/l
1	Kamala Devi colony- No.1	7.7	Nil	0.2	Nil
2	Kamala Devi colony- No.2	7.8	Nil	0.2	Nil
3	Vidharavarampalem-1	7.7	Nil	0.2	Nil
4	Vidharavarampalem-2	7.5	Nil	0.3	Nil
5	Mulagada No.1	7.6	Nil	0.2	Nil
6	Mulagada No.2	7.5	Nil	0.3	Nil
7	Mulagada No.3	7.6	Nil	0.3	Nil
8	Kotipasa Boda dibba	7.7	Nil	0.2	Nil
	Provided	ISIRI Part II-1903	APHA1000	SM 450 F- D	APHA2000

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

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

dt. 02.11.2022

Description of Test: Surrounding village wells - Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.11.2022

NO	Location of well	pH	PO ₄ mg/l	P- mg/l	Ammonia & Nitrogen mg/l
1	Kamalahalli colony- No.1	7.6	Nil	0.3	Nil
2	Kamalahalli colony- No.2	7.3	Nil	0.2	Nil
3	Veduravasthalam-1	7.5	Nil	0.2	Nil
4	Veduravasthalam-2	7.6	Nil	0.2	Nil
5	Malagada No.1	7.6	Nil	0.2	Nil
6	Malagada No.2	7.7	Nil	0.3	Nil
7	Malagada No.3	7.4	Nil	0.2	Nil
8	Kodiparada ditha	7.6	Nil	0.2	Nil
	Overall	IS:2825 Part 11-080	ATTA-0800	SM 498 P- D	APHA-08C

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Env/CCL/15/1222

08.02.2022

Description of Test: Surrounding village wells Ground water analysis

Name of the client: Corasmed International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.12.2021

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia & Nitrate mg/l
1	Kamalahalli colony- No.1	7.5	Nd	0.2	Nd
2	Kamalahalli colony- No.2	7.3	Nd	0.3	Nd
3	Yedurangudi colony-1	7.4	Nd	0.2	Nd
4	Yedurangudi colony-2	7.4	Nd	0.3	Nd
5	Malaguda No.1	7.6	Nd	0.2	Nd
6	Malaguda No.2	7.5	Nd	0.3	Nd
7	Malaguda No.3	7.4	Nd	0.3	Nd
8	Kodigumthi 4th floor	7.5	Nd	0.2	Nd
	Fractal	EC/25 Part 15.080	AP/14.0800	CU 400 P- B	AP/14.0800

For TEAM Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Eaw/CIL/15W123

01.02.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Gramamandali Interstructural Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 19.01.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia 1N Nitrogen mg/l
1	Kamalahalli colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.3	Nil	0.2	Nil
3	Vidharanipalem-1	7.7	Nil	0.2	Nil
4	Vidharanipalem-2	7.5	Nil	0.2	Nil
5	Mallayada No.1	7.6	Nil	0.2	Nil
6	Mallayada No.2	7.7	Nil	0.2	Nil
7	Mallayada No.3	7.4	Nil	0.2	Nil
8	Kochimadala 4Bbs	7.5	Nil	0.2	Nil
	Overall	01.02.2023 Part 15-090	APHA/0000	SM 400 P 0	APHA/0000

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No.TLC/V/Ea/CIL/15/0223

@02.03.2023

Description of Test: Saravali nag village wells Ground water analysis

Name of the client: Commercial International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of sample collection: 27.02.2023

NO	Location of well	pH	PO4 mg/l	P- mg/l	Ammonia & Nitrogen mg/l
1	Kamalahalli colony- No.1	7.5	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.6	Nil	0.2	Nil
3	Yeduru sanigubolu-1	7.5	Nil	0.3	Nil
4	Yeduru sanigubolu-2	7.7	Nil	0.3	Nil
5	Malaganla No.1	7.6	Nil	0.3	Nil
6	Malaganla No.2	7.5	Nil	0.2	Nil
7	Malaganla No.3	7.5	Nil	0.3	Nil
8	Kodipandula dham	7.3	Nil	0.3	Nil
	Present	ISO/IEC 17025 Part 15:2003	APHA/10000	ISO 4500 9- 0	APHA/10000

For TEAM Labs and Consultants



TEST REPORT

Test Report No.TLCV/Env/CIL/09/022

01.04.2023

Description of Test: Surrounding village wells Ground water analysis

Name of the client: Caremasid International Limited, Vadkhespatam

Location of sampling: Stations as per details given

Date of Sample collection: 14.03.2023

NO	Location of well	pH	PO4 mg/l	F ⁻ mg/l	Ammonia (Nitrogen) mg/l
1	Kamalahavi colony- No.1	7.6	Nd	0.3	Nd
2	Kamalahavi colony- No.2	7.7	Nd	0.2	Nd
3	Yedhuvanipalem-1	7.7	Nd	0.3	Nd
4	Yedhuvanipalem-2	7.7	Nd	0.3	Nd
5	Malagada No.1	7.8	Nd	0.2	Nd
6	Malagada No.2	7.5	Nd	0.2	Nd
7	Malagada No.3	7.5	Nd	0.3	Nd
8	Kodipondala dithu	7.6	Nd	0.2	Nd
	Prepared	10.022 For 11.090	APSA/09040	SD 09040 0	APSA/09040

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CFL/20/1022

dt. 02.11.2022

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

Analysis Report for the Month of OCTOBER-2022

Date of monitoring	Time	PM ₁₀ Limit 08 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 50 $\mu\text{g}/\text{m}^3$
27.10.2022 To 28.10.2022	09.00 to 09.30 hrs	42	79	15.5	16.6

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: TLCTV/Env/CPL/200122

01.02.2022

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Corvusindia International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of NOVEMBER-2021

Date of monitoring	Time	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
28.11.2021 To 29.11.2021	09.00 hrs To 09.00 hrs	40	87	14.1	18.9

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/AN/001/122

06.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carowind International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of DECEMBER-2022

Date of monitoring	Time	PM ₁₀ Limit 60 $120 \mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $120 \mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $120 \mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $120 \mu\text{g}/\text{m}^3$
11.12.2022 To 01.01.2023	08.00 to 09.00 hrs	45	92	16.6	19.8

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

For TEAM Labs and Consultants

Labs and Consultants

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Test Report No. TLC/V/Kav/CPL/28/R123

dt. 01.01.2023

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

Name of the client: Cervusandol International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Client

Ambient Report for the Month of JANUARY-2023

Date of monitoring	Time	PM_{10} Limit 50 $\mu g/m^3$	$PM_{2.5}$ Limit 100 $\mu g/m^3$	SO_2 Limit 50 $\mu g/m^3$	NO_2 Limit 50 $\mu g/m^3$
25.01.2023 To 29.01.2023	09.00 to 09.00 hrs	48	78	14.8	18.5

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CPL/069223

06.02.2023

Description of Test: Ambient Air Quality Monitoring inside the CPL

Name of the client: Commandel International Limited, Voshkopanum

Location of sampling: Near Wall

Date of Collection: As per details Given

Analysis Result for the Month of FEBRUARY 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 $\mu\text{g}/\text{m}^3$
18.02.2023 To 19.02.2023	09.00 to 18.00 hrs	38	88	14.2	21.5

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

For TEAM Lab and Consultant



Labs and Consultants

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

dt: 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Cosmoval International Limited, Visakhapatnam

Location of sampling: Near Ward

Date of Collection: As per details Given

Analysis Report for the Month of MARCH-2023:

Date of monitoring	Time	$PM_{2.5}$ Limit 60 $\mu g/m^3$	PM_{10} Limit 100 $\mu g/m^3$	SO_2 Limit 80 $\mu g/m^3$	NO_2 Limit 80 $\mu g/m^3$
25.03.2023 To 26.03.2023	09.00 to 09.00 hrs	34	77	13.2	18.8

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

For TEAM Labs and Consultants



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Test Report No. TLC/V/Env/CIL/03/2022

01.02.2022

Description of Test: Ambient Air Quality Monitoring outside the CIL

Name of the Client: Carumandul International Limited, Visakhapatnam

Location of sampling: Malaguda

Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-2021

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.10.2021	14	48	7.5	9.8
06.10.2021	16	42	7.3	9.8
11.10.2021	18	45	8.2	11.2
15.10.2021	24	55	9.5	13.5
17.10.2021	26	58	9.2	10.8
19.10.2021	36	60	11.8	12.2
25.10.2021	56	60	18.5	18.3
Protocol	Current method: CPCB manual	ISO 15181 PART- 23 : 2006	ISO 15181 PART- 1 : 2001	ISO 15181 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. TLCOV/Env/CIL/14/1022

04.05.2022

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

Analysis Report for the Month of OCTOBER-2021

Date of monitoring	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
03.10.2021	28	45	8.5	16.6
06.10.2021	15	40	7.8	9.5
11.10.2021	18	42	8.2	10.9
13.10.2021	22	50	9.2	11.5
17.10.2021	24	52	9.5	11.2
19.10.2021	25	55	9.8	11.4
25.10.2021	30	65	17.5	16.8
Prevalent	Good weather, CPCB model	100% FART 23-2008	100% FART 3-2008	100% FART 4-2008

For TEAM Labs and Consultants

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TEST REPORT

01.02.2022

Test Report No. TLCN/KovCH/13/0122

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coremandil International Limited, Vandalapet

Location of sampling: Malagade

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2021

Date of monitoring	PM2.5 Limit 50 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2021	20	61	8.0	10.6
05.11.2021	24	48	9.0	11.5
07.11.2021	20	42	8.8	12.5
09.11.2021	26	54	10.2	15.5
14.11.2021	28	58	9.8	12.7
16.11.2021	31	62	10.8	14.7
22.11.2021	30	58	10.0	13.5
Protocol	Gravimetric CPC method	IS 5182 Part-2 2006	IS 5182 Part-2 2006	IS 5182 Part-2 2006

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. TLA/C/V/Env/CIL/14/1121

01.03.2022

Description of Test: Ambient Air Quality Monitoring outside the CFI,
Name of the client: Corroten (I) International Limited, Visakhapatnam
Location of sampling: Gubila pulam
Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2021

Date of monitoring	PM2.5 Limit 50 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2021	32	48	9.0	11.5
05.11.2021	24	51	9.8	10.8
07.11.2021	25	54	9.2	12.0
09.11.2021	28	44	8.5	10.2
14.11.2021	28	58	10.2	14.7
18.11.2021	27	56	10.4	15.5
22.11.2021	31	60	9.8	13.5
Protocol	Gravimetric, CPCB 1998	IMP10 PART- 15 - 2004	IMP10 PART- 2 - 1993	IMP10 PART- 6 - 2004

For TEAM Labo and Consultants



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Test Report No. TLO/Ven/CBL/141222

dt. 01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CBL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Calicutapalem

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
05.12.2022	28	45	9.9	10.8
08.12.2022	25	46	9.8	11.5
13.12.2022	27	54	9.8	12.4
16.12.2022	28	55	9.1	11.7
19.12.2022	30	58	10.7	13.8
23.12.2022	29	64	9.5	13.6
27.12.2022	30	56	9.8	11.8
Protocol	Green manta, CPCB used	ISIRI PART- 31-2006	ISIRI PART- 3-2001	ISIRI PART- 4-2004

For TEAM Labs and Consultants

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CBL/13/1222

dt. 02.01.2023

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

Name of the client: Ceramand International Limited, Visakhapatnam

Location of sampling: Melagada

Date of Collection: As per details given

Analysis Report for the Month of DECEMBER 2022

Item of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
05.12.2022	34	51	9.2	11.8
08.12.2022	38	52	9.7	12.4
13.12.2022	34	50	9.0	11.7
16.12.2022	37	54	10.3	13.2
19.12.2022	25	42	10.1	12.5
22.12.2022	32	45	10.4	13.5
27.12.2022	29	38	9.3	11.7
Protocol	Gravimetric, CPCB method	ISIRI PART- 21 : 2006	ISIRI PART- 5 : 2001	ISIRI PART- 4 : 2004

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

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TEST REPORT

Test Report No.TLC/V/Env/CBL/14/0123

dt.01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commercial International Limited, Visakhapatnam

Location of sampling: Gullapalem

Date of Collection: As per details given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	PM2.5 Limit 80 $\mu\text{g}/\text{m}^3$	PM10 Limit 180 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
01.01.2023	18	42	7.7	9.9
05.01.2023	22	56	8.5	12.8
09.01.2023	26	54	9.7	13.8
11.01.2023	39	62	11.5	15.8
18.01.2023	32	64	11.0	17.5
28.01.2023	25	82	10.3	14.7
24.01.2023	28	58	14.8	13.8
Protocol	Gravimetric, CPCB method	IS102 PART- 3 - 1984	IS101 PART- 3 - 1981	IS102 PART- 6 - 1988

For TEAM Lab and Consultants



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TEST REPORT

Test Report No. TLC/Env/CPL/ENV023

09.02.2023

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

Name of the client: Commanded Inter-national Limited, Visakhapatnam

Location of sampling: Madagada

Date of Collection: As per details given

Analysis Report for the Month of JANUARY 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 $\mu\text{g}/\text{m}^3$
03.01.2023	35	93	8.4	12.8
05.01.2023	28	59	10.2	15.3
09.01.2023	36	55	9.5	12.8
11.01.2023	30	99	10.7	13.8
18.01.2023	24	82	5.5	13.2
20.01.2023	31	62	10.9	15.1
24.01.2023	29	84	10.0	12.3
Protocol	Gravimetric, CPCB excel	IMPACT PARS, 33 -2004	IMPACT PARS, 2 -2004	IMPACT PARS, 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:TEC/V/Env/CHE/14/8323

dt:01.03.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Commandel International Limited, Vashikapuram

Location of sampling: Colabaapalem

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO ₂ Limit 80 µg/m ³
01.02.2023	20	64	8.0	21.6
04.02.2023	24	58	9.2	13.8
06.02.2023	27	55	10.4	15.6
08.02.2023	32	68	10.8	16.9
14.02.2023	34	65	11.5	18.5
16.02.2023	22	55	10.8	14.6
21.02.2023	25	53	9.7	15.2
Protocol	Grvi aqmr, CPCB (aqmr)	ISO15189 PART- 11-2004	ISO15189 PART- 11-2004	ISO15189 PART- 11-2004

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLCV/Env/CIL/330223

06.01.2023

Description of Test: Ambient Air Quality Monitoring inside the CFL

Name of the client: Caracash International Limited, Visakhapatnam

Location of sampling: Mangalot

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
01.02.2023	24	52	9.0	14.4
04.02.2023	25	56	10.5	16.8
06.02.2023	18	50	11.0	17.6
08.02.2023	21	60	11.2	18.2
14.02.2023	26	57	9.7	14.4
16.02.2023	30	60	11.2	17.8
21.02.2023	27	58	9.5	14.7
Protocol	Green methods, CPCB issued	IS:1031 PART- 11 : 2009	IS:1031 PART- 2 : 2009	IS:1031 PART- 6 : 2009

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

For TEAM Lab and Consultants



TEST REPORT

Test Report No. TEL/CV/Env/CIL/08/0125

01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Coremandel International Limited, Visakhapatnam

Location of sampling: Gullabapalem

Date of Collection: As per details given

Analysis Report for the Month of MARCH-2023

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
07.03.2023	21	43	7.3	18.2
09.03.2023	23	45	7.9	18.8
13.03.2023	24	55	8.5	13.3
15.03.2023	29	57	8.2	12.8
20.03.2023	32	62	9.8	12.7
23.03.2023	22	48	7.9	15.4
27.03.2023	25	54	8.2	12.3
Protocol	Gravimetric, CPCB (2010)	IS 182 (PART- 2) - 1996	IS 182 (PART- 2) - 1996	IS 182 (PART- 2) - 1996

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLCV/Evt/CH/4710023

@01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CHL

Name of the client: Corenand International Limited, Visakhapatnam

Location of sampling: Madagala

Date of Collection: As per details given

Analysis Report for the Month of MARCH-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 50 $\mu\text{g}/\text{m}^3$
07.03.2023	22	47	7.5	9.9
09.03.2023	24	50	8.0	11.6
13.03.2023	25	55	8.4	13.2
15.03.2023	34	60	9.1	13.8
16.03.2023	24	58	8.8	13.2
22.03.2023	39	60	9.3	12.8
27.03.2023	28	54	8.2	11.6
Protocol	GM 1000, CPCB-1000	IS 10310 PART- 11 - 1000	IS 10310 PART- 11 - 1000	IS 10310 PART- 11 - 1000

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

For TEAM Labs and Consultants

