

086/MWH/2023-41

01/06/2023

To
The Director,
Regional Office (South Eastern Zone)
Ministry of Environment, Forest and Climate Change
1st and 2nd Floor, Hindustan Square Premises Complex,
88, Colaba Industrial Estate Road,
Mumbai-400001, Chennai-600008

Dear Sir,

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

Ref: L. No. FWD- 11/5/2022-3613 dated 24.05.2022

Please find the attached half yearly compliance report of CE Clearance issued by MOEFCC for construction of wastewater plant (Dissolution plant) with capacity of 15 MLD.

Period of submission : Oct 21 to Mar 23
To : Coromandel International Limited, Visakhapatnam

Thanking You,

For Coromandel International Limited


M. Gurusundaram
VP - Head Manufacturing


M. Gurusundaram
VP - Head Manufacturing

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

EHS2-Vitag-Coromandel

From: Nagaraja P-Mgr-EHS-Vitag-Coromandel
Sent: 01 June 2023, 17:53
To: s.compliance@ap.dgri.in; nvisappp@icloud.com; visappp@icloud.com
Subject: Half yearly EC (CRZ Clearance) Compliance Report- regd.
Attachments: CRZ Compliance_Declaration Part_Mar 23.pdf

Dear Sir,

Ref: F. No. F.NO: 11/6/2022-4.16 dated 30.08.2022

Please find the attached half yearly compliance report of CRZ Clearance issued by MOPPC for construction of sewerage plant (Dissolution plant) with capacity of 15 MLD.

Period of submission : Oct'22 to Mar'23

Unit : Coromandel International Limited, Visakhapatnam.

Nagaraj,
Nagaraja P
Manager-Environment
9220443439

SAVE ENVIRONMENT SAVE LIFE



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Coromandel International Limited, Visakhapatnam

Compliance status of Environment clearance

CCE Clearance for construction of sea water plant (Desalination plant) with capacity of 15 MGD

F.NO: 11/3/2021-ALM DT: 24.03.2022

For the period from Oct-2022 to March-2023

S.NO	CONVENTIONS	COMPLIANCE
PART A – SPECIFIC CONDITIONS		
1	All construction shall be strictly in accordance with the provisions of CCE Notification, 2001 and as amended from time to time.	Noted and we will follow as per your directions.
2	No storage reservoir for sea water shall be permitted and only pipeline conveyance system shall be installed.	We will intake seawater through pipeline system only.
3	No ground water shall be extracted within CCE area to meet water requirements during the construction and/or operational phase of the project.	Noted and we will not extract ground water in CCE area.
4	No excavated material during the construction shall be dumped in water bodies or adjacent areas. The site shall be restored to its near original condition after completion of construction.	We will follow as per your directions.
5	Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.	Noted We will comply during the construction period only.
6	All the conditions stipulated by the Andhra Pradesh Coastal Zone Management Authority for CCE clearance vide its letter no: 367/CZM/MD/2021 dt: 18.03.2022 and commitments made by the PP before the CZMA and EAC shall be followed in letter and spirit.	We will comply.
7	All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.	We will obtain all the prior approvals prior to the commencement of the project.
PART B – GENERAL CONDITIONS		
1	Management of solid waste in accordance with the Solid waste Management Rules, 2016 shall be strictly implemented.	Noted We will implement solid waste management rules as applicable.
2	Consent to Establish and/or Consent to Operate shall be obtained from State Pollution Control Board under the provisions of Air (Prevention and Control of Pollution) Act, 1981 and/or the Water (Prevention and Control of Pollution) Act, 1974 as may be applicable.	CPE has been obtained from APSCB.
3	Disposal of truck 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 in approved sites with the approval of competent authority.	Noted. We will not create such adverse effects and will take necessary safety precautions.

Coromandel International Limited, Visakhapatnam

4	All liquid waste arising from the proposed development will be disposed of as per the norms prescribed by Central/State Pollution Control Board. There shall not be any disposal of untreated effluent into the freshwater water bodies. It shall be ensured that the wastewater generated is treated in the STP as committed by the project proponent. The treated waste water shall be reused for landscaping, flushing and/or HVAC Cooling purposes etc. within the development. The project proponent should also make alternate arrangement for sludge arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under supervision of the SPCB.	The generation of sludge from the process is about 25000 m ³ /day which will be disposed into the sea through the existing discharge canal and the salinity of the same will reach the ambient conditions near the basin area.
5	Any hazardous waste generated during construction phase, shall be disposed off as per applicable rules and norms with necessary approvals of the State Pollution Control Board.	Construction waste if any will be collected and loaded into the C&D waste management rule 2016. Municipal solid waste generated during construction phase will be 15.5 TPa and will be disposed via authorized vendors and residents.
6	A copy of the clearance letter shall be uploaded on the website of the concerned State Coastal Zone Management Authority/State pollution control board. The clearance letter shall also be displayed at the Regional office, Marine Industries Centre and Collection Office/Tahsil office by 20/09/2023.	We will comply
7	A Six monthly monitoring report shall need to be submitted by the project proponent to the concerned regional office of the Ministry regarding the implementation of the stipulated conditions.	We will submit six monthly compliance regarding implementation of conditions mentioned to the Regional Office, MoEF&CC.
8	The Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing ones, if necessary in the interest of environment and the same shall be complied with.	Noted We will obey as per new conditions.
9	The above stipulations would be enforced among others under the provisions of the Water Prevention and Control of pollution Act, 1974	We will obey
10	Full co-operation shall be extended to the officials from the Regional office of MoEF&CC, during monitoring of implementation of environmental safeguards stipulations. It shall be ensured that documents/data sought pertinent is made available to the monitoring team. A complete set of all the documents submitted to MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.	Noted We will extend full cooperation to the MoEF&CC officials during their visit.

11	In the case of any change(s) in the scope of the project, the project would require a fresh approval by this Ministry.	We will apply if any such changes are there in the scope of work.
12	The ministry reserves the right to add additional safeguard measures subsequently, if considered necessary and to take action to ensure effective implementation of the suggested safeguard measures in a time bound and satisfactory manner, including revoking of the environment clearance under the provisions of the Environmental Protection Act, 1986 for non-compliance.	We will stay for your directions.
13	All other statutory clearances such as the approvals for storage of steel 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 programme from the respective competent authorities.	Noted We will obtain as per the directions.
14	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.org.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 concerned Regional Office of the Ministry.	Complied
15	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zila Parishad/Municipal Corporation, Urban Local body and the Local NGO, if any from whom suggestions/representations, if any were received while processing the proposal.	Complied
16	The proponent shall upload 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 MoEFCC, the respective Zonal office of CRZ and the SPCB.	Complied
17	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 Act, 1986 is mandated annually, shall also be put on the website of the project proponent along with the status of compliance of clearance conditions and shall also be sent to the respective Regional office of the Ministry in e-mail.	Submitted form on 26.09.2021 for the period of April-2021 to March-2022.

Labs and Consultants

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TEST REPORT

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

01.02.14.2022

Description of Test: Ambient Air quality Monitoring inside the CFL
 Name of the client: Coesmond 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 Cablecar	AAQ-2 Station near DG sets	AAQ-3 Station at Gate - C3 (Near Bagging shed)
PM _{2.5}	Minimum	21	29	20
	Maximum	44	48	42
	95%ile	44	48	42
	Average	28	38	23
PM ₁₀	Minimum	31	35	34
	Maximum	80	85	80
	95%ile	80	85	80
	Average	60	72	67
SO ₂	Minimum	0.3	1.3	1.9
	Maximum	25.3	31.3	23.3
	Average	35.3	1.7	12.6
	95%ile	25.3	31.3	23.3
NO ₂	Minimum	12.7	14.3	0.3
	Maximum	24.3	31.3	20.6
	95%ile	24.3	31.3	20.6
	Average	17.2	22.8	14.8
NH ₃	Maximum	0.81mg/M ³	0.11mg/M ³	0.01mg/M ³
	Minimum	0.64mg/M ³	0.11mg/M ³	0.01mg/M ³
	95%ile	0.81mg/M ³	0.64mg/M ³	0.01mg/M ³
	Average	0.80mg/M ³	0.60mg/M ³	0.01mg/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

06.02.12.2022

Test Report No. TL/CV/Eus/CL/12/1122

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

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

Parameters		AAQ-1 Station at the Top of Cubeank	AAQ-2 Station near DG wh	AAQ-3 Station at Gate -12 (Near Bagging area)
PM _{2.5}	Minimum	35	33	31
	Maximum	45	45	42
	SP/Min	42	45	42
	Average	36	40	37
PM ₁₀	Minimum	68	66	62
	Maximum	78	88	82
	SP/Min	74	74	72
	Average	71	78	75
SO ₂	Minimum	14.7	20.7	14.3
	Maximum	24.3	20.7	17.8
	Average	15.3	18.5	16.0
	SP/Min	24.3	20.7	17.8
NO _x	Minimum	15.5	15.5	15.5
	Maximum	22.5	21.2	18.6
	SP/Min	22.5	21.2	18.6
	Average	19.5	19.5	16.2
NO ₂	Minimum	0.75 µg/M ³	0.80 µg/M ³	0.81 µg/M ³
	Maximum	0.02 µg/M ³	0.00 µg/M ³	0.02 µg/M ³
	SP/Min	0.02 µg/M ³	0.00 µg/M ³	0.02 µg/M ³
	Average	0.02 µg/M ³	0.00 µg/M ³	0.02 µg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Env/CIL/12/1223

06.02.2023

Description of Test: Ambient Air quality Monitoring inside the CIL
 Name of the client: Caromandel International Limited, Vengal Rao Nagar
 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

Parameter		AAVQ-1 Station at the Top of Columns	AAVQ-2 Station near UG wells	AAVQ-3 Station at Gate-43 (near Joggilinga tank)
PM ₁₀	Minimum	24	27	33
	Maximum	47	45	44
	85%ile	42	45	44
	Average	38	41	38
PM _{2.5}	Minimum	22	25	28
	Maximum	47	44	44
	85%ile	42	45	44
	Average	32	34	31
SO ₂	Minimum	16.5	18.5	12.8
	Maximum	22.5	28.5	15.2
	85%ile	18.9	26.4	14.7
	Average	22.3	26.2	15.1
NO ₂	Minimum	16.4	20.7	14.1
	Maximum	22.2	29.8	14.9
	85%ile	22.3	29.0	14.9
	Average	19.8	25.1	15.4
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	0.02 mg/m ³
	85%ile	0.01mg/m ³	0.01mg/m ³	0.02 mg/m ³
	Average	0.01mg/m ³	0.02mg/m ³	0.02 mg/m ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Lab and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TMLCV/Env/CH/12/R123

dt. 02.02.2023

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

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

Parameter		AAQ-1 Station at the Top of Columns	AAQ-2 Station near 102 cells	AAQ-3 Station at Gate -43 (Near Bagging House)
PM _{2.5}	Midweek	35	36	34
	Weekend	42	45	40
	Wet/Dry	40	42	42
	Average	39	41	40
PM ₁₀	Midweek	61	72	63
	Weekend	81	86	80
	Wet/Dry	81	86	80
	Average	73	79	72
SO ₂	Midweek	12.5	12.0	12.2
	Weekend	10.8	10.8	10.8
	Wet/Dry	10.8	10.8	10.8
	Average	11.4	11.2	11.3
NO ₂	Midweek	10.8	10.8	10.7
	Weekend	10.8	10.2	10.2
	Wet/Dry	10.8	10.2	10.2
	Average	10.8	10.4	10.4
NH ₃	Midweek	0.12mg/M ³	0.10mg/M ³	0.09mg/M ³
	Weekend	0.09mg/M ³	0.09mg/M ³	0.09mg/M ³
	Wet/Dry	0.10mg/M ³	0.09mg/M ³	0.09mg/M ³
	Average	0.10mg/M ³	0.09mg/M ³	0.09mg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLCV/Eas/CIL/12/0023

dt.02.03.2023

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

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

Parameter		AAQ-1 Station at the Top of Calabura	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -15 (Over Dipping shed)
PM _{2.5}	Maximum	32	38	36
	Minimum	44	44	45
	95%ile	44	44	45
	Average	39	48	38
PM ₁₀	Maximum	64	68	58
	Minimum	79	84	86
	95%ile	79	84	86
	Average	81	78	74
SO ₂	Maximum	15.5	21.3	11.6
	Minimum	20.8	28.2	16.6
	95%ile	20.8	28.2	16.6
	Average	23.8	28.2	16.6
NO ₂	Maximum	35.8	25.2	14.7
	Minimum	25.7	24.2	18.2
	95%ile	25.7	24.2	18.2
	Average	30.9	24.1	15.2
NH ₃	Maximum	0.8 μ g/M ³	0.7 μ g/M ³	8.2 μ g/M ³
	Minimum	0.1 μ g/M ³	0.1 μ g/M ³	8.0 μ g/M ³
	95%ile	0.1 μ g/M ³	0.1 μ g/M ³	8.0 μ g/M ³
	Average	0.48 μ g/M ³	0.0 μ g/M ³	8.0 μ g/M ³

All values are expressed in μ g/m³
 except Ammonia

For TEAM Labs and Consultants



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TEST REPORT

Test Report No./TLC/V/Env/CIL/44/0323

dtd.01.04.2023

Description of Test: Ambient Air quality Monitoring inside the CFI.
 Name of the client: Coreconcrete 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 the Top of Catalysts	AAQ-2 Station near DG sets	AAQ-3 Station at Gate-42 (Near Shipping yard)
PM _{2.5}	Maximum	38	32	22
	Minimum	30	42	42
	SP ₅ (hr)	38	42	47
	Average	34	38	37
PM ₁₀	Maximum	55	49	46
	Minimum	32	34	38
	SP ₅ (hr)	52	39	38
	Average	45	33	31
SO ₂	Maximum	8.5	8.8	8.9
	Minimum	11.2	11.2	12.4
	Average	9.3	9.6	10.8
	SP ₅ (hr)	10.1	11.1	12.4
NO ₂	Maximum	12.5	12.3	12.5
	Minimum	15.5	14.4	13.8
	SP ₅ (hr)	15.5	14.4	13.8
	Average	13.8	13.4	14.4
NH ₃	Maximum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Minimum	0.01mg/M ³	0.02mg/M ³	0.01mg/M ³
	SP ₅ (hr)	0.01mg/M ³	0.02mg/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 Ammonia

For TEAM Labs and Consultants



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Test Report No. TLG/V/Env/CFL/16/1022

dt:02.11.2022

Description of Test : Piles wells analysis

Name of the client : Crownmold 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	26.10.2022	CFL - colony	0.3
2	"	Near 4 th Gate	0.4
3	"	Near 7 th gate	0.5
4	"	B.T.Naidu	0.5
		ISI 598 Permissible limit	1.5
	Protocol		GM 400 P. II

For TEAM Labs and Consultants



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Test Report No. TLC/VEar/CFL/16/1122

01.02.22 2022

Description of Test: Peizo wells analysis

Name of the client: Carumandel International Limited, Viralkhupatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	P-mpq.
1	26.11.2022	CFL - colony	0.25
2	"	Near OP Gate	0.15
3	"	Near 7 th gate	0.5
4	"	B.T.Naidu	0.8
		IS:4750 Permeability limit	1.5
	Protocol		SM 480 E-D

For TEAM Labs and Consultants



Labs and Consultants

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

dt. 02.01.2023

Description of Tests : Petrus wells analysis

Name of the client : Carromandel International Limited, VedaKrupatnam

Location of sampling : Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Petrus well	P- mg/L
1	26.12.2022	CFL - colony	0.3
2	"	Near OP Gate	0.5
3	"	Near 7 th gate	0.5
4	"	B.T.Naidu well	0.8
		ISI 25546 Permissible limit	1.5
	Permitted		ISI 4594 P- D

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No: TELC/0/Env/CFL/360123

dt: 01.02.2023

Description of Test: Pits wells analysis

Name of the client: Ceromaxel International Limited, Vindhapuram

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pits-well	P- mg/L
1	19.01.2023	CFL- colony	0.4
2	"	Near 4 OP Gate	0.5
3	"	Near 7 th gate	0.4
4	"	B.T/Vinda	0.8
		IS30533 Permissible limit	1.5
		Protocol	IS 30533 P. II

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/N/Eaw/CPL/16/0223

06.02.2023

Description of Test: Prime water analysis

Name of the client: Carotandel International Limited, Visakhapatnam

Location of sampling: Station - as per details given

Date of Sample collection : As per details given

No	Date	Location of Point-of-take	F-mp/L
1	23.02.2023	CPL - colony	0.3
2	"	Near OP Gate	0.5
3	"	Near 7 th gate	0.5
4	"	H.T./Naidu godown	0.9
		ISO/ISO Permissible limit	1.5
	Findings		BSI 480 F-D

For TEAM Labs and Consultants



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Test Report No./TLC/V/Env/CPL/10/0323

41.01.04.2023

Description of Test: Frise wells analysis

Name of the client: Curamunda International Limited, Vadugubettu

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Frise-well	F- mg/L
1	31.03.2023	CPL - (centre)	0.3
2	"	Near OP Gate	0.5
3	"	Near 7 th gate	0.4
4	"	CRC	0.8
		IS10580 Permissible limit	1.5
	Protocol		1M 480 P.D

For TEAM Labo and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLO/Env/CH/11/022

dtd.13.10.22

Description of Test:

Source Emission Monitoring inside the CHL

Name of the client:

Carnaud International Limited, Visakhapatnam

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

SOURCE/STACK EMISSIONS MONITORING FOR THE MONTH OF OCTOBER 2022

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	10942	Particulate matter	23	45 mg/NM ³
			Ammonia	28	102.4 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
2	Complex B	18081	Particulate matter	26	45 mg/NM ³
			Ammonia	38	102.4 mg/NM ³
			Fluoride	1.1	4.0 mg/NM ³
3	Complex C	18237	Particulate matter	18	45 mg/NM ³
			Ammonia	36	102.4 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
4	Sulphuric acid plant-I	9730	Sulphur dioxide (NM ³ /NM ³)	0.14 Kg/NM ³	1 Kg/MT
			Sulphur trioxide	311	0.25 Kg/MT
			Arsenic	501	20 mg/NM ³
5	Sulphuric acid plant-II	11729	Sulphur dioxide (25mg/NM ³)	0.44 Kg/MT	0.65 Kg/MT
			Sulphur trioxide	701	0.28 Kg/MT
			Arsenic	168	20 mg/NM ³
6	Phosphoric acid plant-I	18063	Particulate matter	21	50 mg/NM ³
			Fluoride	5.8	18 mg/NM ³
7	Rock grinding unit (GR)	9760	Particulate matter	28	50 mg/NM ³
			Total Phosphate	2.4	20 mg/NM ³
8	Water Boiler	12092	Particulate matter	24	10.5 mg/NM ³
9	Phosphoric acid plant-2	14318	Particulate matter	27	50 mg/NM ³
			Total Fluoride	6.0	20 mg/NM ³
10	Rock grinding unit (New)	15223	Particulate matter	25	50 mg/NM ³
			Total Fluoride	4.7	20 mg/NM ³

For TEAM Labs and Consultants



Labor and Consultants

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TEST REPORT

26.01.2022

Test Report No: T/C/V/AM/CIL/11/1122

Description of Test: Source Emission Monitoring Inside the CIL

Name of the client: Cerebrado International Limited, Vadodh Gujarat

Location of sampling: stacks attached to respective plants 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	ATPCB standard Limit
1	Complex A	17262	Particulate matter	13	45 mg/Nm ³
			Ammonia	85	145.8 mg/Nm ³
			Hydroly	1.1	6.7 mg/Nm ³
2	Complex B	15413	Particulate matter	36	45 mg/Nm ³
			Ammonia	78	145.8 mg/Nm ³
			Hydroly	1.9	6.7 mg/Nm ³
3	Complex C	16992	Particulate matter	19	45 mg/Nm ³
			Ammonia	32	145.8 mg/Nm ³
			Hydroly	1.9	6.7 mg/Nm ³
4	baghouse acid plant-I	95197	Sulphur dioxide	0.1006 g/Nm ³ (100.6 mg/Nm ³)	1 kg/Nm ³
			Sulphur trioxide	98	0.35 kg/Nm ³
			Acid mist	59	20 mg/Nm ³
5	baghouse acid plant-II	22642	Sulphur dioxide	0.0864 g/Nm ³ (86.4 mg/Nm ³)	0.45 kg/Nm ³
			Sulphur trioxide	90	0.35 kg/Nm ³
			Acid mist	91	20 mg/Nm ³
6	Phosphoric acid plant-I	16933	Particulate matter	27	45 mg/Nm ³
			Hydroly	5.2	20 mg/Nm ³
			Hydroly	34	60 mg/Nm ³
7	Rock grinding unit (OR)	10049	Particulate matter	24	45 mg/Nm ³
			Total Hydroly	2.4	20 mg/Nm ³
8	Wheat Boiler	18108	Particulate matter	27	115 mg/Nm ³
9	Phosphoric acid plant-2	36781	Particulate matter	22	45 mg/Nm ³
			Total Hydroly	4.5	20 mg/Nm ³
10	Rock grinding unit (New)	11136	Particulate matter	28	45 mg/Nm ³
			Total Hydroly	3.7	20 mg/Nm ³

For TEAM Lab and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TCE/Env/CH/16/VIII

06.01.2022

Description of Test:

Source Emission Monitoring Inside the CPL

Name of the client:

Carvinaadhi International Limited, Visakhapatnam

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

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF DECEMBER 2021

S.No	Sample Location	Flow rate M ³ /hr	Parameter	Conc. mg/NM ³	APCR Standard µg/m ³
1	Complex A	17500	Particulate matter	20	40 mg/NM ³
			Sulphur dioxide	31	111.2 mg/NM ³
			Fluoride	0.8	1.0 mg/NM ³
			Hydrochloric acid	11	40 mg/NM ³
2	Complex B	12750	Particulate matter	10	100.0 mg/NM ³
			Sulphur dioxide	10	100.0 mg/NM ³
			Fluoride	1.2	1.0 mg/NM ³
			Hydrochloric acid	38	40 mg/NM ³
3	Complex C	10100	Sulphur dioxide	91	100.0 mg/NM ³
			Fluoride	1.0	1.0 mg/NM ³
			Hydrochloric acid	1.0	1.0 mg/NM ³
			Hydrochloric acid	1.0	1.0 mg/NM ³
4	Sulphuric acid plant I	10250	Sulphur dioxide	12116 mg/NM ³ (1000 mg/NM ³)	1.0 mg/NM ³
			Sulphur trioxide	74	0.5 mg/NM ³
			Hydrochloric acid	74	0.5 mg/NM ³
			Sulphur dioxide	1000 mg/NM ³ (1000 mg/NM ³)	0.5 mg/NM ³
5	Sulphuric acid plant II	12300	Sulphur dioxide	1000 mg/NM ³ (1000 mg/NM ³)	0.5 mg/NM ³
			Sulphur trioxide	74	0.5 mg/NM ³
			Hydrochloric acid	74	0.5 mg/NM ³
			Sulphur dioxide	1000 mg/NM ³ (1000 mg/NM ³)	0.5 mg/NM ³
6	Phosphate acid plant I	10000	Particulate matter	10	10 mg/NM ³
			Sulphur dioxide	10	10 mg/NM ³
			Fluoride	1.2	1.0 mg/NM ³
			Hydrochloric acid	10	10 mg/NM ³
7	Rock grinding unit I	6100	Particulate matter	10	10 mg/NM ³
			Sulphur dioxide	10	10 mg/NM ³
			Fluoride	1.2	1.0 mg/NM ³
			Hydrochloric acid	10	10 mg/NM ³
8	Water Boiler	5000	Particulate matter	10	10 mg/NM ³
			Sulphur dioxide	10	10 mg/NM ³
			Fluoride	1.2	1.0 mg/NM ³
			Hydrochloric acid	10	10 mg/NM ³
9	Phosphate acid plant II	27000	Particulate matter	10	10 mg/NM ³
			Sulphur dioxide	10	10 mg/NM ³
			Fluoride	1.2	1.0 mg/NM ³
			Hydrochloric acid	10	10 mg/NM ³
10	Rock grinding unit II	7000	Particulate matter	10	10 mg/NM ³
			Sulphur dioxide	10	10 mg/NM ³
			Fluoride	1.2	1.0 mg/NM ³
			Hydrochloric acid	10	10 mg/NM ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TEAM/Env/CHEM/0123

dt: 01.02.2023

Description of Test:

Source Emission Monitoring inside the CFI

Name of the client:

Ceresus India 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	194189	Particulate matter	21	45 mg/NM ³
			Ammonia	05	145.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
2	Complex B	188305	Particulate matter	20	45 mg/NM ³
			Ammonia	012	145.0 mg/NM ³
			Fluoride	0.5	4.0 mg/NM ³
3	Complex C	178112	Particulate matter	16	45 mg/NM ³
			Ammonia	108	145.0 mg/NM ³
			Fluoride	1.1	4.0 mg/NM ³
4	Sulphuric acid plant-I	87672	Sulphur dioxide (100mg/NM ³)	0.145 Kg/MT	1 Kg/MT
			Sulphur trioxide	NA	0.50 Kg/MT
			Acid mist	NA	28 mg/NM ³
5	Sulphuric acid plant-II	22152	Sulphur dioxide (25mg/NM ³)	0.048 Kg/MT	0.05 Kg/MT
			Sulphur trioxide	NA	0.20 Kg/MT
			Acid mist	NA	20 mg/NM ³
6	Phosphoric acid plant-I	145768	Particulate matter	20	20 mg/NM ³
			Fluoride	1.8	20 mg/NM ³
			Total Fluoride	1.8	20 mg/NM ³
7	Rice grinding unit (DR)	18811	Particulate matter	18	125 mg/NM ³
			Total Fluoride	1.8	20 mg/NM ³
8	Wheat Bulker	9632	Particulate matter	24	125 mg/NM ³
9	Phosphoric acid plant-II	22824	Particulate matter	24	50 mg/NM ³
			Total Fluoride	2.0	20 mg/NM ³
10	Rice grinding unit (New)	1346	Particulate matter	22	80 mg/NM ³
			Total Fluoride	2.0	20 mg/NM ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLCV/Env/CIL/11/0023

06.02.2023

Description of Test:

Source Emission Monitoring Inside the CPL

Name of the client:

Ceramind International Limited, Visakhapatnam

Location of sampling: stacks attached to respective plants as per flow to plant

SOURCE/STACK EMISSION MONITORING FOR THE MONTH OF FEBRUARY 2023

S.No.	Stack attached to	Flow rate Nm ³ /hr	Parameter	Conc. mg/Nm ³	APPCB Standard Limit
1	Complex A	18000	Particulate matter	20	40 mg/Nm ³
			Ammonia	40	1000 mg/Nm ³
			Fluoride	0.8	4.0 mg/Nm ³
2	Complex B	11000	Particulate matter	18	40 mg/Nm ³
			Ammonia	40	1000 mg/Nm ³
			Fluoride	1.2	4.0 mg/Nm ³
3	Complex C	10000	Particulate matter	25	40 mg/Nm ³
			Ammonia	40	1000 mg/Nm ³
			Fluoride	1.8	4.0 mg/Nm ³
4	Sulphuric acid plant-I	9000	Sulphur dioxide	0.18 kg/Nm ³ (18mg/Nm ³)	1 kg/Nm ³
			Sulphur trioxide	70	0.25 kg/Nm ³
			Acid mist	10	20 mg/Nm ³
5	Sulphuric acid plant-II	8000	Sulphur dioxide	0.024 kg/Nm ³ (24mg/Nm ³)	0.02 kg/Nm ³
			Sulphur trioxide	70	0.25 kg/Nm ³
			Acid mist	10	20 mg/Nm ³
6	Phosphoric acid plant-I	10000	Particulate matter	20	40 mg/Nm ³
			Fluoride	1.8	4.0 mg/Nm ³
7	Rock grinding sub (200)	8000	Particulate matter	24	40 mg/Nm ³
			Total Fluoride	1.8	4.0 mg/Nm ³
8	Water Boiler	5000	Particulate matter	21	40 mg/Nm ³
9	Phosphoric acid plant-2	10000	Particulate matter	24	40 mg/Nm ³
			Total Fluoride	1.8	4.0 mg/Nm ³
10	Rock grinding sub (700)	8000	Particulate matter	20	40 mg/Nm ³
			Total Fluoride	1.7	4.0 mg/Nm ³

For TEAM Labs and Consultants



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TEST REPORT

Test Report No.TLC/V/Env/CH/150422

04.02.11.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coemunde International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 21.10.2022

NO	Location of well	pH	PO4 mg/l	Fe- mg/l	Ammonia (Nitrogen) mg/l
1	Kamalanteri colony- No.1	7.7	Nil	0.2	Nil
2	Kamalanteri colony- No.2	7.6	Nil	0.2	Nil
3	Yadavurampalem-I	7.7	Nil	0.2	Nil
4	Yadavurampalem-II	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	Kotipadula dibba	7.7	Nil	0.2	Nil
	Protocol	IS:3025 Part 11-1993	APHA4500B	500 4500 Fe- D	APHA4500C

For TEAM Labs and Consultants



Lab and Consultants

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TEST REPORT

Test Report No. TLA/CV/Env/CHL/VS/1122

dt: 02.12.2022

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Carromdale International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.11.2022

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonia + Nitrogen mgpl
1	Kamalahalli colony- No.1	7.6	Nil	0.3	Nil
2	Kamalahalli colony- No.2	7.3	Nil	0.2	Nil
3	Yeduruvaripalem-1	7.3	Nil	0.2	Nil
4	Yeduruvaripalem-2	7.6	Nil	0.3	Nil
5	Malagada No.1	7.6	Nil	0.3	Nil
6	Malagada No.2	7.7	Nil	0.3	Nil
7	Malagada No.3	7.4	Nil	0.2	Nil
8	Kodigandala dibba	7.6	Nil	0.2	Nil
	Provided	IS:5015 Part 11-1980	APBAA590D	SH 0804 F- D	APBAA590C

For TEAM Lab and Consultants



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TEST REPORT

Test Report No. TELC/Water/CH/15/1222

dt. 01.01.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Carromfield International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 26.12.2022

NO	Location of well	pH	FO4 mg/l	F- mg/l	Ammonia Nitrogen mg/l
1	Kamalahalli colony- No.1	7.5	Nil	0.2	Nil
2	Kamalahalli colony- No.2	7.5	Nil	0.3	Nil
3	Yashwanthipalem-1	7.5	Nil	0.2	Nil
4	Yashwanthipalem-2	7.4	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	7.4	Nil	0.3	Nil
8	Kodipamala dibi Fractal	7.5 IS:3025 Part 10-1983	AF11443609	5.01 400 T- B	APRL-000C

For TEAM Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Env/CIL/15/0123

dt.02.02.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Cosmandel International Limited, Vaidikapuram

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 (Nitrogen) mg/l
1	Kamadevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamadevi colony- No.2	7.3	Nil	0.2	Nil
3	Yeduruvuigudem-1	7.7	Nil	0.2	Nil
4	Yeduruvuigudem-2	7.5	Nil	0.3	Nil
5	Mulaguda No.1	7.6	Nil	0.3	Nil
6	Mulaguda No.2	7.7	Nil	0.3	Nil
7	Mulaguda No.3	7.4	Nil	0.3	Nil
8	Kedilgundala doka	7.5	Nil	0.2	Nil
	Protest	IS:3025 Part 11-1983	APHA 4500	101 4500 F- B	APHA 4500

For TEAM Labs and Consultants



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TEST REPORT

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

01.02.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Cocumandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 27.02.2023

NO	Location of well	pH	PO4 mg/L	F- mg/L	Ammonia 1 N/region mg/L
1	Kamata devi colony- No.1	7.5	NH	0.2	NH
2	Kamata devi colony- No.2	7.6	NH	0.2	NH
3	Vedara+anjanakuni-1	7.5	NH	0.3	NH
4	Vedara+anjanakuni-2	7.3	NH	0.3	NH
5	Nalagadu No.1	7.6	NH	0.3	NH
6	Nalagadu No.2	7.3	NH	0.2	NH
7	Nalagadu No.3	7.5	NH	0.3	NH
8	Kodigandala dibba	7.3	NH	0.3	NH
	Process:	IS:3025 Part 11-1992	APHA/5010	SM 401 F D	APHA/4500C

For TEAM Labs and Consultants



TEST REPORT

Test Report No. TLC/V/Env/CIL/09/0323

dtd:01/04/2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Vandalurpettam

Location of sampling: Stations as per details given

Date of Sample collection: 14.03.2023

NO	Location of well	pH	FO4 mg/l	F- mg/l	Ammonia + Nitrogen mg/l
1	Karakkadavil colony- No.1	7.6	Nil	0.2	Nil
2	Karakkadavil colony- No.2	7.7	Nil	0.2	Nil
3	Vidharanpalam-1	7.7	Nil	0.2	N4
4	Vidharanpalam-2	7.7	Nil	0.2	N4
5	Mulaguda No.1	7.8	Nil	0.2	N4
6	Mulaguda No.2	7.5	Nil	0.2	Nil
7	Mulaguda No.3	7.5	Nil	0.2	Nil
8	Kadipandala di9th Pond	7.4	Nil	0.2	Nil
		ISO 9001 Part 15-2002	AP0144860	SM 490 F- D	AP01415MC

For TEAM Labs and Consultants:



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

Test Report No. TLA/CFL/Env/CFL/20/1021

dt. 02.11.2022

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Vakkhapatnam

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 10 $\mu g/m^3$	$PM_{2.5}$ Limit 10 $\mu g/m^3$	SO_2 Limit 80 $\mu g/m^3$	NO_x Limit 80 $\mu g/m^3$
27.10.2022 To 28.10.2022	09.00 to 09.00 hrs	42	79	15.5	11.5

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

For TEAM Labs and Consultants



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

Test Report No. TLC/V/Ene/CPL/20/1122

dt. 02.12.2022

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

Name of the client: Coremandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of NOVEMBER, 2022

Date of monitoring	Time	PM _{2.5} Limit 40 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
28.11.2022 To 29.11.2022	09.00 to 09.00 hrs	40	87	14.1	18.9

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 118, Annapurna Block, Aditya Enclave, Anandpur, Hyderabad - 500038.

Ph. : (0) 949-23748000 / 23748015, Fax : 040-23748000, Email : teamlabs@gmail.com

Laboratory Recognised by Ministry of Environment, Forests and Climate Change, Gov. New Delhi
ANML Accredited Laboratory**TEST REPORT**

Test Report No. TLL/V/Env/CFL/00/1121

Dt. 02.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Cotycaad 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 40 µg/m ³	PM _{2.5} Limit 50 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
31.12.2022 To 01.01.2023	09.00 to 09.00 hrs	45	52	16.5	19.8

All values are given in µg/m³

For TEAM Labs and Consultants



Labs and Consultants

Registered Office :

B-118, 119, 117 & 509, Annapurna Block, Aditya Enclave, Annapurna, Hyderabad - 500026.
Ph. : (0) 940-2374855 / 23749015, Fax: 940-2374868, Email: teamlabs@gmail.comLaboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt., New Delhi
NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CFL/25/0123

dt: 01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carousell International Limited, Vittalhapuram

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of JANUARY-2023

Date of monitoring	Time	PM ₁₀ Limit 50 $\mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 10 $\mu\text{g}/\text{m}^3$
25.01.2023 To 29.01.2023	09.00 to 03.00 hrs	40	78	14.8	18.5

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

For TEAM Labs and Consultants



Labs and Consultants

Registered Office:

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NABL Accredited Laboratory

TEST REPORT

Test Report No. TLC/IV/Env/CPL/040323

On 01.03.2023

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

Name of the client: Commandit International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of FEBRUARY-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 $\mu\text{g}/\text{m}^3$
18.02.2023 To 19.02.2023	00.00 hrs 08.00 hrs	55	80	14.3	21.5

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

For TEAM Labs and Consultants



Lab and Consultants

Registered Office :

B-115, 116, 117 & 608, Anasapurna Road, Aditya Enclave, Anaparthi, Hyderabad - 500038

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Laboratory Recognised by Ministry of Environment, Forests and Climate Change, Govt, New Delhi
ANML Accredited Laboratory**TEST REPORT**

Test Report No: TL/CV/Eas/CPL/20/0323

dtd: 01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Caromworld 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 ₁₀ Limit 40 µg/m ³	PM _{2.5} Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO ₂ Limit 80 µg/m ³
25.03.2023 To 26.03.2023	09.00 to 09.00 hrs	24	77	13.2	15.8

All values are given in µg/m³

For TEAM Lab and Consultants



Lab and Consultants

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Ph : (02) 940-2374805 / 23748016, Fax : 940-23748050, Email : teamlabcd@gmail.com

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TEST REPORT

Test Report No. TL/CV/Eas/CLL/23/1022

d1.02.11.2022

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

Name of the client: Carmandel International Limited, Visakhapatnam

Location of sampling: Mutlaguda

Date of Collection: As per details given

Analysis Report for the Month of OCTOBER-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO_2 Limit 80 $\mu\text{g}/\text{m}^3$	NO_x Limit 80 $\mu\text{g}/\text{m}^3$
03.10.2022	14	48	7.5	9.8
05.10.2022	18	42	7.1	9.6
11.10.2022	18	45	9.2	11.2
13.10.2022	24	55	9.5	13.5
17.10.2022	26	58	9.2	10.8
19.10.2022	30	60	11.8	12.2
25.10.2022	36	69	18.5	18.3
Period	Good weather, CPCB annual	INTER PART- 2A -2006	INTER PART- 2 -2001	INTER PART- 6 -2004

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

For TEAM Lab and Consultants

Labs and Consultants

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B-115, 116, 117 & 509, Annapurna Block, Aditya Enclave, Anandpur, Hyderabad - 500030.
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TEST REPORT

Test Report No.TLCV/En/CIL/14/1822

#02.11.2022

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

Analysis Report for the Month of OCTOBER-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.10.2022	28	45	8.5	10.6
04.10.2022	15	40	7.8	9.9
11.10.2022	18	42	8.2	10.3
13.10.2022	21	50	9.2	11.5
17.10.2022	24	52	9.5	11.2
19.10.2022	25	55	9.0	10.4
25.10.2022	20	50	17.5	16.8
Prepared	Gravimetric, CPC (anal)	ISS182 PM10- 25-2008	ISS182 PM10- 2-2008	ISS182 PM10- 4-2008

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

dt: 02.12.2022

Test Report No: TLC/V/Env/CIL/TH/1122

Description of Test: Ambient Air Quality Monitoring outside the CIL

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

Location of sampling: Mulaguda

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2022

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2022	20	44	8.8	10.6
05.11.2022	24	48	9.0	11.5
07.11.2022	20	42	8.8	12.5
09.11.2022	26	54	10.2	15.5
14.11.2022	28	58	9.8	12.7
16.11.2022	31	62	10.5	14.7
22.11.2022	30	58	10.0	13.5
Protocol	Gravimetric, CPCB method	ISS182 PART- 22 -2006	ISS182 PART- 2 -2006	ISS182 PART- 6 -2004

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

For TEAM Labs and Consultants



Lab and Consultants**Registered Office :**

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/NOE/CL/147122

01.02.12.2022

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Caromandel International Limited, Visakhapatnam

Location of sampling: Gullabagalam

Date of Collection: As per details given

Analysis Report for the Month of NOVEMBER-2021

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 30 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.11.2022	22	48	9.0	11.5
05.11.2022	24	52	8.8	10.8
07.11.2022	25	54	9.2	12.0
09.11.2022	20	44	8.5	10.2
14.11.2022	28	58	10.2	14.7
18.11.2022	27	54	10.4	15.5
22.11.2022	31	60	9.8	13.5
Protocol	Gravimetric, CPC Based	ISO10 PART- 23 -2004	ISO10 PART- 1 -2001	ISO10 PART- 1 -2001

For TEAM Lab and Consultants



Labs and Consultants

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D-115, 116, 117 & 505, Amrapuram Block, Aditya Enclave, Amrapur, Hyderabad - 500038.

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TEST REPORT

Test Report No. TL/CV/Eas/CL/14/1222

01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL
 Name of the client: Corusand International Limited, Visakhapatnam
 Location of sampling: Gullalapuram
 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_x Limit 80 $\mu\text{g}/\text{m}^3$
03.12.2022	28	45	8.8	19.8
08.12.2022	25	50	9.8	21.5
13.12.2022	27	54	9.8	22.4
16.12.2022	28	55	9.4	21.7
19.12.2022	30	58	10.7	23.8
21.12.2022	29	64	9.5	23.6
27.12.2022	30	65	9.8	21.8
Percent	Control station, CPCB method	15510 PART- 2, 2006	15510 PART- 2, 2007	15510 PART- 2, 2004

For TEAM Labs and Consultants

Labs and Consultants

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Ph : (01) 840-23743555 / 23743515, Fax: 040-23743555, Email: teammla@gmail.com

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ANML Accredited Laboratory**TEST REPORT**

Test Report No. TLC/VI/Env/CIL/13/1222

dt. 01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Cosmaseda International Limited, Visakhapatnam

Location of sampling: Malaga Rd

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 _x Limit 80 $\mu\text{g}/\text{m}^3$
05.12.2022	34	51	9.2	11.8
06.12.2022	26	52	9.7	12.4
13.12.2022	34	50	9.6	11.7
16.12.2022	27	54	10.5	12.3
19.12.2022	25	52	10.3	12.5
23.12.2022	32	65	10.4	12.5
27.12.2022	29	58	9.8	12.7
Protocol	Gravimetric, CPCB anal	IS 5952 PART- 2 : 2006	IS 5952 PART- 1 : 2004	IS 5952 PART- 4 : 2004

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

For TEAM Labs and Consultants

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

Test Report No. TLC/CIIL/14/0123

dt. 02.02.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Caromandel International Limited, Vellore

Location of sampling: Coimbatore

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 96 $\mu\text{g}/\text{m}^3$	NO _x Limit 96 $\mu\text{g}/\text{m}^3$
02.01.2023	18	62	7.7	9.9
05.01.2023	22	56	8.5	12.0
07.01.2023	16	54	9.2	13.5
11.01.2023	19	62	11.5	18.3
18.01.2023	12	64	11.8	17.1
20.01.2023	15	52	13.2	14.7
24.01.2023	20	58	10.0	12.5
Period	Good (excl. CPCD area)	ISS (I) PART- 25 -2006	ISS (I) PART- 2 -2000	ISS (I) PART- 4 -2004

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/VEas/CIL/13/0123

09.02.2023

Description of Test: Ambient Air Quality Monitoring outside the CIL

Name of the client: Ceramand International Limited, Visakhapatnam

Location of sampling: Mulaguda

Date of Collection: As per details given

Ambient 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 _x Limit 80 $\mu\text{g}/\text{m}^3$
03.01.2023	25	53	8.4	12.9
05.01.2023	28	58	10.2	15.3
09.01.2023	26	55	9.5	12.8
11.01.2023	30	59	10.7	15.8
18.01.2023	24	52	9.5	13.3
20.01.2023	31	62	10.9	15.1
24.01.2023	29	56	10.8	13.3
Protocol	Gravimetric, CPC/ISSM	ISSM PART- 21-2009	ISSM PART- 2-2009	ISSM PART- 6-2009

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

For TEAM Labs and Consultants



Labs and Consultants

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B-115, 116, 117 & 118, Annapurna Block, Aditya Enclave, Anasapet, Hyderabad - 500028.

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

Test Report No.TLC/VI/Env/CIL/14/0223

dt:02.03.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commercial International Limited, Visakhapatnam

Location of sampling: Gollapalem

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 10 $\mu\text{g}/\text{m}^3$	NO _x Limit 90 $\mu\text{g}/\text{m}^3$
02.02.2023	28	44	8.0	11.6
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	16.6
22.02.2023	25	53	9.7	15.2
Protocol	Gravimetric, CPCB manual	IS182 PART- 25 -2019	IS182 PART- 2 -2011	IS182 PART- 8 -2014

For TEAM Labs and Consultants



Labs and Consultants

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NABL Accredited Laboratory

TEST REPORT

Test Report No. TLC/V/Env/CH/130223

dt.02.03.2023

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

Name of the client: Ceramix India International Limited, Visakhapatnam

Location of sampling: Mulugala

Date of Collection: As per details given

Analysis Report for the Month of FEBRUARY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
01.02.2023	24	52	9.8	14.4
04.02.2023	25	54	16.5	16.4
06.02.2023	28	58	11.0	17.6
09.02.2023	31	69	11.2	18.3
14.02.2023	26	57	9.7	14.4
16.02.2023	39	68	11.2	27.5
22.02.2023	27	58	9.5	14.7
Protocol	Gravimetric, CPC method	ISSUE DATE: 12-2006	ISSUE DATE: 1-2001	ISSUE DATE: 6-2001

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. TLA/CP&F/CIL/88/0323

dt.01.04.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Commanded International Limited, Vasakhepatam

Location of sampling: Gollabesalem

Date of Collection: As per details given

Analysis Report for the Month of MARCH-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
07.03.2023	31	43	7.3	10.3
09.03.2023	23	45	7.9	10.6
13.03.2023	24	55	8.5	13.3
15.03.2023	30	57	8.2	12.0
20.03.2023	32	62	9.6	12.7
22.03.2023	22	48	7.9	11.6
27.03.2023	25	54	8.2	12.3
Protocol	Gravimetric, CPC Annex	IS1582 PM10- 13 -2004	IS1582 PM2.5- 2 -2006	IS1582 PM2.5- 4 -2004

For TEAM Labs and Consultants



TEST REPORT

Test Report No. TLC/V/Env/CIL/070325

dtd:01/04/2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Vellore upstream

Location of sampling: Malaguda

Date of Collection: As per details given

Analysis Report for the Month of MARCH-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
07.03.2023	22	47	7.5	9.9
09.03.2023	24	59	8.0	11.6
13.03.2023	25	55	8.4	13.2
15.03.2023	30	69	9.1	13.5
20.03.2023	28	58	8.8	13.2
22.03.2023	30	69	9.3	12.8
27.03.2023	28	58	8.2	11.4
Protocol	IS 1843 Part 1 CPCB 2010	IS 1842 Part 1 2 - 2010	IS 1842 Part 1 2 - 2010	IS 1842 Part 1 6 - 2010

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

For TEAM Labs and Consultants

