

015/MulF/2023-029

21/12/2023

To
The Director,
Regional Office (South Eastern Zone)
Ministry of Environment, Forests and Climate Change
1st and 2nd Floor, Handloom Export Promotion Council,
34, Cathedral Garden Road,
Mungambakkam, Chennai-600034

Dear Sir,

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

Ref. F. No. F.NO: 11/5/2023-UL dated 24.08.2022

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

Period of submission : Apr'23 to Sep'23
Unit : Coromandel International Limited, Visakhapatnam

Thanking You,

For Coromandel International Limited


Commissioner M
Vice President & Head Mfg


J. S. Rao
Dy. Secy
Dy. Secy

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

Coromandel International Limited, Visakhapatnam

Compliance status of Environment clearance

CRI Clearance for construction of seawater plant (Desalination plant) with capacity of 15 MLD

F.NO: 11/5/2022-IA.II DT: 24.09.2022

For the period from Apr-2023 to Sep-2023

S.NO	CONCERN/COND	COMPLIANCE
PART A – SPECIFIC CONDITIONS		
1	All construction shall be strictly in accordance with the provisions of CRZ notification, 2011 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 CRZ area to meet water requirements during the construction and/or operational phase of the project.	Noted and we will not extract ground water in CRZ 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 CRZ clearance vide its letter no. 307/CRZ/IND/2022 dt. 18.01.2022 and commitments made by the PP before the COEA and CAC 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, 1986 and/or the Water (Prevention and Control of Pollution) Act, 1974 as may be applicable.	COP has been obtained from APSCB
3	Disposal of muck 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 sea/coastal 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 M&C. Cooling purposes etc within the development. The project proponent should also make alternate arrangement for situation arising due to malfunctioning of STP. There shall be regular monitoring of standard parameters of the effluent discharge from STP under intimation to the SPCB.	The generation of brine 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 beach 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 handled in line to C&P waste management rule 2016. Municipal solid waste generated during construction phase will be 56.5 TPA and will be disposed via authorized vendors and recyclers.
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, District Industries centre and Collectors Office/Tsholders office for 30 days.	We will comply
7	A bio monthly monitoring report shall need to be submitted by the project proponent to the concerned regional office of this Ministry regarding the implementation of the stipulated conditions.	We will submit six monthly compliance regarding implementation of conditions mentioned to the Regional Office, M&S&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 your 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 M&S&CC, during monitoring of implementation of environmental safeguards stipulated. 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 M&S&CC shall be forwarded to the concerned Regional Office of M&S&CC.	Noted We will extend full cooperation to the M&S&CC officials during their visit.

Coromandel International Limited, Visakhapatnam

11	in the case of any change(s) in the scope of the project, the project would require a fresh appraisal 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 obey for your directions.
13	All other statutory clearances such as the approvals for storage of fuel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1950 and Wildlife (Protection) Act, 1972 etc shall be obtained, as applicable by project proponent 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.mefrc.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 concerned Regional Office of this Ministry.	Complied
15	A copy of the clearance letter shall be sent by the proponent to concerned Panchayat, Zilla 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 MoEF&CC, the respective Zonal office of CPCB 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) Rules, 1986 as amended subsequently, 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 by e-mail.	Submitted Form-IV on 28.09.2023 for the period of April-2023 to March-2023. Find enclosed Annexure-Q2 Form-IV acknowledgement copy for your reference.

Registered Office :

B-115, 116, 117 & 118, Annapurna Block, Aditya Enclave, Anandpur, Hyderabad - 530038

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

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TEST REPORT

Test Report No. TLC/V/Env/CFL/20/0423

dt. 01.05.2023

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

Name of the client: Commandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of APRIL-2023

Date of monitoring	Time	PM ₁₀ 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 $\mu\text{g}/\text{m}^3$
26.04.2023 To 27.04.2023	09.00 to 09.00 hrs	36	78	14.0	19.4

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annappa Reddy Street, Aditya Enclave, Annapur, Hyderabad - 500036.

Ph : (C) 040-23748555 / 23748516, Fax: 040-23748555, Email: teamlabs@gmail.com

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

Test Report No. TLC/V/Env/CFL/20/0523

dt. 01.06.2023

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

Name of the client: Cosmotel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of MAY-2023

Date of monitoring	Time	PM _{2.5} Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
25.05.2023 To 26.05.2023	09.00 hrs To 09.00 hrs	38	35	15.7	20.4

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

For TEAM Labs and Consultants



Labs and Consultants

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APOL Accredited Laboratory**TEST REPORT**

Test Report No, TLCV/Eaw/CFL/28/8623

dt. 01.07.2023

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

Name of the client: Coromandel International Limited, Vinukhospetam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of JUNE-2023

Date of monitoring	Time	PM ₁₀ Limit 60 $\mu\text{g}/\text{m}^3$	PM ₁₀ Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
28.06.2023 To 29.06.2023	09.00 to 09.00 hrs	40	88	16.2	22.8

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

For TEAM Labs and Consultants



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

Test Report No. TLO/V/Eaw/CFL/200723

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Virudhapattanam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analysis Report for the Month of JULY-2023

Date of monitoring	Time	PM ₁₀ Limit 60 µg/m ³	PM _{2.5} Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
28.07.2023 To 29.07.2023	09.00 to 09.00 hrs	36	88	14.2	16.8

All values are given in µg/m³

For TEAM Labs and Consultants



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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLC/V/Env/CFL/244825

01.01.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carromandal International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of AUGUST-2023

Date of monitoring	Time	PM ₁₀ Limit 50 $\mu\text{g}/\text{m}^3$	PM _{2.5} Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 50 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 50 $\mu\text{g}/\text{m}^3$
29.08.2023 To 30.08.2023	09.00 to 09.00 hrs	44	98	16.8	21.4

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CFL/201923

01.05.19.2023

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

Name of the client: Carromdel International Limited, Visakhapatnam

Location of sampling: Near Wharf

Date of Collection: As per details Given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	Time	PM_{10} Limit 90 $\mu\text{g}/\text{m}^3$	$\text{PM}_{2.5}$ Limit 100 $\mu\text{g}/\text{m}^3$	SO_2 Limit 80 $\mu\text{g}/\text{m}^3$	NO_x Limit 80 $\mu\text{g}/\text{m}^3$
30.09.2023 To 01.10.2023	09.00 to 09.00 hrs	35	70	12.2	15.8

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CIL/120423

dt.02.05.2023

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

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

Parameter		AAQ-1 Station at the Top of Chimneys	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM _{2.5}	Minimum	30	30	34
	Maximum	41	42	43
	95%ile	41	42	43
	Average	37	38	39
PM ₁₀	Minimum	42	48	42
	Maximum	75	80	82
	95%ile	75	80	82
	Average	59	70	59
SO ₂	Maximum	15.9	22.8	22.8
	Minimum	21.5	26.8	25.8
	Average	18.9	24.2	23.9
	95%ile	21.5	26.8	25.8
NO ₂	Minimum	17.5	22.2	16.3
	Maximum	22.1	27.2	28.1
	95%ile	22.1	27.2	28.1
	Average	21.2	24.1	19.2
NH ₃	Minimum	0.02mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	95%ile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

All values are expressed in µg/m³
 except Ammonia

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLC/V/Eas/CIL/12/0523

dt.01.06.2023

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

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

Parameter		AAQ-1 Station at the Top of Calberia	AAQ-2 Station near BG Jm	AAQ-3 Station at Gate - 33 (Near Bagging plant)
PM _{2.5}	Minimum	22	24	26
	Maximum	43	44	45
	95%ile	40	44	45
	Average	38	39	40
PM ₁₀	Minimum	42	49	49
	Maximum	79	84	82
	95%ile	79	84	82
	Average	71	76	77
SO ₂	Minimum	14.7	23.7	13.8
	Maximum	22.3	26.6	15.8
	Average	19.6	23.8	14.7
	95%ile	22.3	26.6	15.8
NO ₂	Minimum	14.1	22.8	12.9
	Maximum	22.9	26.7	18.8
	95%ile	22.9	26.7	18.8
	Average	21.0	24.3	18.8
NH ₃	Minimum	0.02ug/M ³	0.02ug/M ³	0.01 ug/M ³
	Maximum	0.03ug/M ³	0.04ug/M ³	0.02ug/M ³
	95%ile	0.03ug/M ³	0.04ug/M ³	0.02ug/M ³
	Average	0.02ug/M ³	0.03ug/M ³	0.02ug/M ³

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

For TEAM Labs and Consultants



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NAAC Accredited Laboratory

TEST REPORT

Test Report No. TLOV/Env/CBL/12/0623

dt. 01.07.2023

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

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

Parameter		AAQ-1 Station at the Top of Calveria	AAQ-2 Station near DC sub	AAQ-3 Station at Gate -C3 (near Bagging plant)
PM2.5	Minimum	29	38	29
	Maximum	43	43	44
	MP ₅₀ (µg/m ³)	42	43	44
	Average	37	39	36
PM10	Minimum	38	44	41
	Maximum	73	80	83
	MP ₅₀ (µg/m ³)	73	80	83
	Average	59	56	58
SO ₂	Minimum	13.4	14.7	13.5
	Maximum	24.3	26.5	16.8
	Average	18.8	20.0	14.5
	MP ₅₀ (µg/m ³)	14.3	16.3	14.8
NO _x	Minimum	15.5	16.8	16.1
	Maximum	24.3	27.2	26.2
	Average	24.3	27.2	26.2
	MP ₅₀ (µg/m ³)	21.4	23.8	18.5
NH ₃	Minimum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	MP ₅₀ (µg/m ³)	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.01mg/M ³	0.03mg/M ³	0.01mg/M ³

All values are expressed in µg/m³
except Ammonia

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLOV/Env/CBL/12/0623

dt. 01.07.2023

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

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

Parameter		AAQ-1 Station at the Top of Calveria	AAQ-2 Station near DC sub	AAQ-3 Station at Gate -C3 (near Bagging plant)
PM2.5	Minimum	29	38	29
	Maximum	43	43	44
	MP ₅₀ (µg/m ³)	42	43	44
	Average	37	39	36
	Average	38	44	41
PM10	Minimum	38	64	83
	Maximum	78	95	87
	MP ₅₀ (µg/m ³)	78	95	87
	Average	59	76	76
	Average	52.4	64.7	73.8
SO ₂	Minimum	14.3	16.8	16.8
	Maximum	24.3	26.8	26.8
	Average	18.8	20.0	19.8
	MP ₅₀ (µg/m ³)	24.3	26.8	26.8
	Average	14.7	16.8	16.8
NO _x	Minimum	15.0	16.8	20.2
	Maximum	24.3	27.2	28.2
	MP ₅₀ (µg/m ³)	24.3	27.2	28.2
	Average	21.4	23.8	25.8
	Average	15.0	16.8	20.2
NH ₃	Minimum	0.01mg/M ³	0.01mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	MP ₅₀ (µg/m ³)	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	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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Laboratory Recognized by Ministry of Environment, Forests and Climate Change, Govt. New Delhi
NABL Accredited Laboratory

TEST REPORT

Test Report No. TLCV/Env/CIL/128023

dt: 21.08.2023

Description of Test:

Ambient Air quality Monitoring inside the CFE

Name of the client:

Comcastel International Limited, Vachhapuram

Location of sampling:

Stations as per details given

Period of Monitoring :

For the Month of AUGUST-2023

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

Parameters		AAQ-1 Station at the Top of Calveria	AAQ-2 Station near DG site	AAQ-3 Station at Gate-43 (Near Rigging plant)
PM _{2.5}	Maximum	30	34	32
	Minimum	42	47	48
	95%ile	42	45	49
	Average	37	40	36
PM ₁₀ $\mu\text{g}/\text{m}^3$	Maximum	54	60	56
	Minimum	80	82	79
	95%ile	80	82	79
	Average	71	76	69
SO ₂ $\mu\text{g}/\text{m}^3$	Maximum	13.8	14.9	8.2
	Minimum	22.3	27.8	14.8
	Average	16.7	22.8	13.1
	95%ile	22.3	27.8	14.8
NO ₂ $\mu\text{g}/\text{m}^3$	Maximum	15.0	13.8	12.8
	Minimum	22.8	26.9	19.2
	95%ile	22.8	26.9	18.2
	Average	18.2	21.1	15.3
NH ₃ $\mu\text{g}/\text{N}^1$	Maximum	6.01	6.01	6.01
	Minimum	6.01	6.01	6.01
	95%ile	6.01	6.01	6.01
	Average	6.019	6.02	6.01
O ₃ $\mu\text{g}/\text{m}^3$	Maximum	18	18	18
	Minimum	18	18	17
	95%ile	18	18	17
	Average	11.9	14.5	18.25
CO $\mu\text{g}/\text{m}^3$	Maximum	5.1	5.1	5.1
	Minimum	5.1	5.1	5.1
	95%ile	5.1	5.1	5.1
	Average	5.1	5.12	5.11
PH $\mu\text{g}/\text{m}^3$	<0.45	<0.05	<0.05	<0.05
Calcium $\mu\text{g}/\text{m}^3$	<0.45	<0.05	<0.05	<0.05
Mg $\mu\text{g}/\text{m}^3$	<0.45	<0.05	<0.05	<0.05
As $\mu\text{g}/\text{m}^3$	<0.45	<0.05	<0.05	<0.05
M $\mu\text{g}/\text{m}^3$	<0.45	<0.05	<0.05	<0.05

For TEAM Labs and Consultants

Registered Office :

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TEST REPORT

Test Report No: TLO/VEnv/CL/12/0923

dt: 03.10.2023

Description of Test:

Ambient Air quality Monitoring Inside the CPL

Name of the client:

Corvusworld International Limited, Visakhapatnam

Location of Sampling:

Station as per details given

Period of Monitoring:

For the Month of SEPTEMBER-2023

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

Parameters		AAQ-1 Station at the Top of Calsteria	AAQ-2 Station near DG gate	AAQ-3 Station at Gate-12 (Near Bagging plant)
PM _{2.5}	Minimum	28	28	28
	Maximum	48	47	47
	SP _{50%}	46	42	42
	Average	28	32	34
PM ₁₀ $\mu\text{g}/\text{m}^3$	Minimum	29	30	28
	Maximum	74	79	72
	SP _{50%}	72	70	71
	Average	67	67	64
SO ₂ $\mu\text{g}/\text{m}^3$	Minimum	12.2	10.5	8.9
	Maximum	18.8	14.2	14.9
	Average	15.4	16.1	12.9
	SP _{50%}	18.0	14.2	14.9
NO _x $\mu\text{g}/\text{m}^3$	Minimum	13.8	15.2	11.1
	Maximum	20.4	24.6	14.8
	SP _{50%}	20.4	25.0	14.8
	Average	17.8	22.2	14.4
NH ₃ $\mu\text{g}/\text{m}^3$	Minimum	0.01	0.01	0.01
	Maximum	0.02	0.02	0.012
	SP _{50%}	0.02	0.02	0.012
	Average	0.015	0.017	0.011
O ₃ $\mu\text{g}/\text{m}^3$	Minimum	8	8	8
	Maximum	14	18	14
	SP _{50%}	14	18	14
	Average	11.2	13.8	11.2
CO $\mu\text{g}/\text{m}^3$	Minimum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	SP _{50%}	0.1	0.2	0.2
	Average	0.1	0.14	0.11
Pb $\mu\text{g}/\text{m}^3$	<0.01	<0.01	<0.01	<0.01
Cd $\mu\text{g}/\text{m}^3$	<0.01	<0.01	<0.01	<0.01
As $\mu\text{g}/\text{m}^3$	<0.01	<0.01	<0.01	<0.01
Al $\mu\text{g}/\text{m}^3$	<0.01	<0.01	<0.01	<0.01

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TEST REPORT

Test Report No. TLCV/Env/CIL/159423

dt: 02.05.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Carumandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 25.04.2023

NO	Location of well	pH	PO ₄ mg/l	F- mg/l	Ammonia / Nitrogen mg/l
1	Kamaladevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.4	Nil	0.3	Nil
3	Vedureswunigudem-1	7.3	Nil	0.3	Nil
4	Vedureswunigudem-2	7.4	Nil	0.3	Nil
5	Mylagada No.1	7.3	Nil	0.3	Nil
6	Mylagada No.2	7.4	Nil	0.3	Nil
7	Mylagada No.3	7.5	Nil	0.3	Nil
8	Kodigumala dibba	7.4	Nil	0.2	Nil
	Procedural	IS-2023 Part 11-1081	APHA400D	SM and F- D	APHA400C

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Labs and Consultants

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

dt. 01/06/2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Carvamar International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 28.05.2023

NO	Location of well	pH	FO4 mg/l	F- mg/l	Ammonia (Nitrogen) mg/l
1	Kamabadevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamabadevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvaniapalem-1	7.5	Nil	0.3	Nil
4	Yeduruvaniapalem-2	7.4	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.3	Nil
8	Kodipondala dhaka	7.4	Nil	0.2	Nil
	Protocol	IS:3025 Part 31-1983	APHA-6505D	SM 4500 F- B	APHA-4500C

For TEAM Labs. Joint Consultants



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Test Report No. TLOV/Raw/CIL/159623

dt. 01.07.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Caromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 22.06.2023

NO	Location of well	pH	PO4 mg/l	P- mg/l	Ammonia N Nitrogen mg/l
1	Kamaladevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamaladevi colony- No.2	7.9	Nil	0.2	Nil
3	Yacharevanipalem-1	7.5	Nil	0.3	Nil
4	Yacharevanipalem-2	7.4	Nil	0.2	Nil
5	Mulaguda No.1	7.5	Nil	0.3	Nil
6	Mulaguda No.2	7.6	Nil	0.2	Nil
7	Mulaguda No.3	7.7	Nil	0.3	Nil
8	Kadipondula dibba	7.4	Nil	0.2	Nil
	Protocol	IS:3025 Part 11-1980	APHA4500D	10 4500 P- 0	APHA4500C

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TEST REPORT

Test Report No. TLC/N/Eav/CH/15/0723

#L01.08.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 17.07.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia N Nitrogen mg/l
1	Kamalahdevi colony- No.1	7.7	Nil	0.2	Nil
2	Kamalahdevi colony- No.2	7.8	Nil	0.2	Nil
3	Yoharevanipalem-1	7.9	Nil	0.2	Nil
4	Yoharevanipalem-2	7.8	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.2	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.2	Nil
8	Kadigandole dhole	7.6	Nil	0.2	Nil
	Process	ISO 9001 Part 11:2015	APHA4980	ISO 22000 F- 22	APHA4980C

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Test Report No. TLC/V/Env/CIL/15/0823

dt.01.09.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 19.08.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonical Nitrogen mg/l
1	Kamalahadevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamalahadevi colony- No.2	7.7	Nil	0.2	Nil
3	Vedavaranipalem-1	7.5	Nil	0.2	Nil
4	Vedavaranipalem-2	7.7	Nil	0.2	Nil
5	Malaguda No.1	7.5	Nil	0.3	Nil
6	Malaguda No.2	7.5	Nil	0.2	Nil
7	Malaguda No.3	7.6	Nil	0.2	Nil
8	Kodipondula dibba	7.6	Nil	0.2	Nil
	Present	6.30SS Part II- 080	APHA4500	SM 4500 F. D	APHA4500C

For TEAM-Labs and Consultants

Labs and Consultants

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TEST REPORT

Test Report No. TLC/N/Eav/CIL/150923

dt.03.10.2023

Description of Test: Surrounding village wells-Ground water analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 28.09.2023

NO	Location of well	pH	PO4 mg/l	F- mg/l	Ammonia 1 Nitrogen mg/l
1	Kamatadevi colony- No.1	7.7	NB	0.2	NB
2	Kamatadevi colony- No.2	7.5	NB	0.2	NB
3	Veduruvangipalem-1	7.6	NB	0.2	NB
4	Veduruvangipalem-2	7.8	NB	0.2	NB
5	Malagada No.1	7.7	NB	0.3	NB
6	Malagada No.2	7.5	NB	0.2	NB
7	Malagada No.3	7.7	NB	0.2	NB
8	Kodipandula ditta	7.8	NB	0.2	NB
	Protocol	IS-3025 Part 11-1980	APHA4590D	SM 4500 F- 0	APHA4500C

For TEAM Labs and Consultants



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Test Report No. TLC/V/Env/CFL/16/8423

dt.02.05.2023

Description of Test: Pelzo wells analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pelzo-well	F- mg/L
1	29.04.2023	CFL - colony	0.4
2	"	Near 4 OP Gate	0.5
3	"	Near 1 st gate	0.5
4	"	CRC	0.6
		IS 10500 Permissible limit	1.5
	Protocol		IS 10500 1- 12

For TEAM Labs and Consultants



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Test Report No. TLLC/V/Env/CFL/14/0523

01.01.06.2023

Description of Test: *Prison wells analysis*Name of the client: *Coromandel International Limited, Visakhapatnam*Location of sampling: *Stations as per details given*Date of Sample collection : *As per details given*

No	Date	Location of Prison well	F- mg/L
1	26.05.2023	CFL - colony	0.5
2	-	Near 4 th OP Gate	0.6
3	-	Near 7 th gate	0.5
4	-	CBC	0.7
		ISO1500 Permissible limit	1.5
	Protocol		NM 400 F-10

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CFL/16/0623

dt. 01.07.2023

Description of Test: Pesticide analysis

Name of the client: Carwarden International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Pesticide well	F-ug/L
1	16.06.2023	CFL - colony	0.5
2	-	Near OP Gate	0.6
3	-	Near 7 th gate	0.5
4	-	CRC	0.7
		IS10580 Permissible limit	1.5
	Protocol		see also F-0

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLO/V/Env/CPL/16/0723

dt. 01.08.2023

Description of Test: Petco wells analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Petco-well	F- mg/L
1	18.07.2023	CFL - colony	1.4
2	18.07.2023	Near 4 OP Gate	1.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS 1558 Permissible limit	1.5
-	Protocol		500 mg/l F-0

For TEAM Labs and Consultants



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Test Report No. TLA/CV/Env/CFL/160823

dt.01.09.2023

Description of Test: Peiza wells analysis

Name of the client: Coremandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peiza-well	F- mg/L
1	12.08.2023	CFL - station	0.4
2	12.08.2023	Near 4 OP Gate	0.5
3	12.08.2023	Near 7 th Gate	0.6
4	12.08.2023	CBC	0.6
		IS18500 Permissible limit	1.5
	Protocol		SM 490 F- O

For TEAM Labs. and Consultants



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TEST REPORT

Test Report No. TL/C/V/Env/CPL/16/9923

26.03.2023

Description of Test: **Peize wells analysis**Name of the client: **Commander International Limited, Visakhapatnam**Location of sampling: **Station: as per details given**Date of Sample collection: **As per details given**

No	Date	Location of Peize well	F- mg/L
1	26.09.2023	CPL - colony	8.5
2	26.09.2023	Near OP Gate	8.6
3	26.09.2023	Near 7 th gate	8.7
4	26.09.2023	CHC	9.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4380 F- D

For TEAM Labs and Consultants



Labs and Consultants

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TEST REPORT

Test Report No. TLL/V/Env/CL/11/9423

01.02.05.2023

Description of Test:

Source Emission Monitoring inside the CTL

Name of the client:

Comensaul International Limited, Visakhapatnam

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

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

S.No.	Stack attached to	Flow rate Nm ³ /hr	parameter	Conc. mg/Nm ³	APPCB Standard Limit
1	Complex A	194615	Particulate matter	22	45 mg/Nm ³
			Arsenic	95	165.0 mg/Nm ³
			Fluoride	0.4	4.0 mg/Nm ³
2	Complex B	182573	Particulate matter	34	45 mg/Nm ³
			Arsenic	185	165.0 mg/Nm ³
			Fluoride	2.4	4.0 mg/Nm ³
3	Complex C	171268	Particulate matter	20	45 mg/Nm ³
			Arsenic	90	165.0 mg/Nm ³
			Fluoride	2.2	4.0 mg/Nm ³
4	Sulphuric acid plant-I	90029	Sulphur dioxide (80mg/Nm ³)	6.881 Kg/Mt	1 Kg/Mt
			Sulphur trioxide	90	0.25 Kg/Mt
			Acid mist	90	20 mg/Nm ³
5	Sulphuric acid plant-II	24781	Sulphur dioxide (20mg/Nm ³)	6.829 Kg/Mt	1 Kg/Mt
			Sulphur trioxide	90	0.25 Kg/Mt
			Acid mist	90	20 mg/Nm ³
6	Phosphoric acid plant-I	108021	Particulate matter	20	50 mg/Nm ³
			Fluoride	6.8	20 mg/Nm ³
7	Rock grinding unit (7th)	4593	Particulate matter	27	50 mg/Nm ³
			Total Fluoride	3.1	20 mg/Nm ³
8	Ward Boiler	7127	Particulate matter	40	102 mg/Nm ³
9	Phosphoric acid plant-2	26248	Particulate matter	24	50 mg/Nm ³
			Total Fluoride	3.1	20 mg/Nm ³
10	Rock grinding unit (New)	7423	Particulate matter	45	50 mg/Nm ³
			Total Fluoride	3.8	20 mg/Nm ³

For TEAM Labs and Consultants



TEST REPORT

Test Report No.TLC/V/Eno/CIL/11/0523

01.01.2023

Description of Test: Source Emission Monitoring inside the CFI.

Name of the client: Ceramand International Limited, Visakhapatnam

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

SOURCE STACK EMISSION MONITORING FOR THE MONTH OF MAY-2023

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc mg/Nm ³	APPCR Standard Limit
1	Complex A	104895	Particulate matter	26	45 mg/Nm ³
			Ammonia	44	105.6 mg/Nm ³
			Fluoride	6.9	4.8 mg/Nm ³
2	Complex B	116429	Particulate matter	12	45 mg/Nm ³
			Ammonia	40	105.6 mg/Nm ³
			Fluoride	1.3	4.8 mg/Nm ³
3	Complex C	119883	Particulate matter	18	45 mg/Nm ³
			Ammonia	71	105.6 mg/Nm ³
			Fluoride	1.4	4.8 mg/Nm ³
4	Sulphuric acid plant-I	125618	Sulphur dioxide	0.118kg/Nm ³ (118mg/Nm ³)	1 Kg/Nm ³
			Sulphur trioxide	N4	0.35 Kg/Nm ³
			Acid mist	N4	30 mg/Nm ³
			Sulphur dioxide	0.048kg/Nm ³ (48mg/Nm ³)	0.05 Kg/Nm ³
			Sulphur trioxide	N6	0.35 Kg/Nm ³
5	Sulphuric acid plant-II	144521	Sulphur dioxide	0.048kg/Nm ³ (48mg/Nm ³)	0.05 Kg/Nm ³
			Sulphur trioxide	N6	0.35 Kg/Nm ³
			Acid mist	N6	20 mg/Nm ³
			Particulate matter	11	50 mg/Nm ³
			Fluoride	0.8	30 mg/Nm ³
6	Rock grinding unit (OM)	9889	Particulate matter	25	50 mg/Nm ³
			Total Fluoride	2.3	20 mg/Nm ³
7	Wheel Baler	8571	Particulate matter	25	105 mg/Nm ³
8	Phosphoric acid plant-2	10867	Particulate matter	22	50 mg/Nm ³
			Total Fluoride	2.1	20 mg/Nm ³
10	Rock grinding unit (New)	4014	Particulate matter	29	50 mg/Nm ³
			Total Fluoride	2.5	20 mg/Nm ³

For TEAM Assisted Consultants



Labs and Consultants

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TEST REPORT

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

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	APPCB Standard U/m
1	Complex A	261464	Particulate matter	22	42 mg/Nm ³
			Ammonia	45	165.0 mg/Nm ³
			Fluoride	1.8	6.0 mg/Nm ³
2	Complex B	102974	Particulate matter	28	45 mg/Nm ³
			Ammonia	98	165.0 mg/Nm ³
			Fluoride	1.8	6.0 mg/Nm ³
3	Complex C	154386	Particulate matter	19	45 mg/Nm ³
			Ammonia	80	165.0 mg/Nm ³
			Fluoride	1.8	6.0 mg/Nm ³
4	Sulphuric acid plant-I	98724	Sulphur dioxide	0.206kg/NM ³ (211mg/NM ³)	1 kg/NM ³
			Sulphur trioxide	ND	6.24 kg/NM ³
			acid vap	ND	22 mg/NM ³
			Sulphur dioxide	0.164kg/NM ³ (166mg/NM ³)	0.65 kg/NM ³
5	Sulphuric acid plant-II	39438	Sulphur trioxide	ND	6.25 kg/NM ³
			acid vap	ND	18 mg/NM ³
			Particulate matter	20	18 mg/NM ³
			Fluoride	6.8	18 mg/NM ³
6	Phosphoric acid plant-I	159643	Particulate matter	28	50 mg/NM ³
			Total Fluoride	2.2	18 mg/NM ³
			Particulate matter	34	18 mg/NM ³
7	Rock grinding unit (ONG)	4314	Particulate matter	22	50 mg/NM ³
8	Waste boiler	6192	Particulate matter	22	50 mg/NM ³
9	Phosphoric acid plant-2	16586	Particulate matter	4.8	30 mg/NM ³
			Total Fluoride	30	50 mg/NM ³
10	Rock grinding unit (New)	8071	Particulate matter	2.8	20 mg/NM ³
			Total Fluoride	2.8	20 mg/NM ³

For Team Labs and Consultants



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TEST REPORT

Test Report No. TLO/V/Env/CPL/16/0723

dt. 01.08.2023

Description of Test: Petco wells analysis

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Petco-well	F- mg/L
1	18.07.2023	CFL - colony	1.4
2	18.07.2023	Near 4 OP Gate	1.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS 1539 Permissible limit	1.5
-	Protocol		500 mg/l F-0

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TEST REPORT

Test Report No. TLCN/Eav/CIL/11/0823

06.01.2023

Description of Test:

Source Emission Monitoring inside the CPE

Name of the client:

Commandat International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Flow rate Nm ³ /hr	parameters	Conc. mg/Nm ³	APPCB Standard Limit
1	Complex A	19485	Particulate matter	21	45 mg/Nm ³
			Acetone	99	165.5 mg/Nm ³
			Fluoride	1.4	4.5 mg/Nm ³
2	Complex B	18319	Particulate matter	20	45 mg/Nm ³
			Acetone	99	165.5 mg/Nm ³
			Fluoride	1.2	4.5 mg/Nm ³
3	Complex C	18785	Particulate matter	22	45 mg/Nm ³
			Acetone	95	165.5 mg/Nm ³
			Fluoride	1.6	4.5 mg/Nm ³
4	Sulphuric acid plant-I	10887	Sulphur dioxide	6.17 kg/NM ³ (23mg/NM ³)	1 kg/NM ³
			Sulphur trioxide	Nil	6.25 kg/NM ³
			Acid mist	Nil	20 mg/NM ³
			Sulphur dioxide	6.17 kg/NM ³ (23mg/NM ³)	6.25 kg/NM ³
5	Sulphuric acid plant-II	22441	Sulphur dioxide	6.17 kg/NM ³ (23mg/NM ³)	6.25 kg/NM ³
			Sulphur trioxide	Nil	6.25 kg/NM ³
			Acid mist	Nil	20 mg/NM ³
			Sulphur dioxide	6.17 kg/NM ³ (23mg/NM ³)	6.25 kg/NM ³
6	Phosphoric acid plant-I	14274	Particulate matter	43	50 mg/NM ³
			Fluoride	5.1	20 mg/NM ³
7	Rock grinding unit (New)	8306	Particulate matter	48	50 mg/NM ³
			Total Fluoride	6.7	20 mg/NM ³
8	Wheat Boiler	8066	Particulate matter	31	115 mg/NM ³
9	Phosphoric acid plant-2	27662	Particulate matter	42	50 mg/NM ³
			Total Fluoride	5.7	20 mg/NM ³
10	Rock grinding unit (New)	8175	Particulate matter	49	50 mg/NM ³
			Total Fluoride	6.0	20 mg/NM ³

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TEST REPORT

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

dtd: 10.09.2023

Description of Test:

Source Emission Monitoring (inside the CFL)

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 SEPTEMBER 2023

S.No.	Stack attached to	Flow rate Nm ³ /hr	parameters	Unit, mg/Nm ³	APPC & Standard Limit
1	Complex A	19080	Particulate matter	18	41 mg/Nm ³
			Ammonia	66	162.6 mg/Nm ³
			Fluoride	1.2	6.0 mg/Nm ³
2	Complex B	18855	Particulate matter	22	41 mg/Nm ³
			Ammonia	75	162.6 mg/Nm ³
			Fluoride	1.3	6.0 mg/Nm ³
3	Complex C	20000	Particulate matter	28	41 mg/Nm ³
			Ammonia	72	162.6 mg/Nm ³
			Fluoride	1.5	6.0 mg/Nm ³
4	Sulphuric acid plant-I	88760	Sulphur dioxide	0.154kg/MT (110mg/Nm ³)	1 kg/MT
			Sulphur trioxide	88	0.34 kg/MT
			Acid mist	60	28 mg/Nm ³
			Sulphur dioxide	0.126kg/MT (106mg/Nm ³)	0.65 kg/MT
5	Sulphuric acid plant-II	31884	Sulphur dioxide	88	0.34 kg/MT
			Sulphur trioxide	50	0.30 kg/MT
			Acid mist	50	28 mg/Nm ³
			Particulate matter	36	50 mg/Nm ³
6	Phosphoric acid plant-I	14182	Fluoride	6.9	20 mg/Nm ³
			Particulate matter	45	50 mg/Nm ³
7	Rock grinding unit (RM)	8405	Particulate matter	45	50 mg/Nm ³
			Total Fluoride	1.9	20 mg/Nm ³
8	Wheat Sifter	5728	Particulate matter	38	125 mg/Nm ³
9	Phosphoric acid plant-2	18997	Particulate matter	40	50 mg/Nm ³
			Total Fluoride	4.9	20 mg/Nm ³
10	Rock grinding unit (New)	7980	Particulate matter	40	50 mg/Nm ³
			Total Fluoride	2.7	20 mg/Nm ³

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TEST REPORT

Test Report No. TL/C/V/Env/CIL/149423

#102.65.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Curramuchil International Limited, Visakhapatnam

Location of sampling: Gullabogaleni

Date of Collection: As per details given

Analysis Report for the Month of APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	24	45	18.2	13.3
06.04.2023	26	50	11.3	14.7
10.04.2023	28	55	10.4	15.6
12.04.2023	30	60	9.7	14.4
17.04.2023	32	65	12.2	17.7
19.04.2023	28	59	10.8	15.3
24.04.2023	25	53	9.5	14.7
Prepared	Green matrix, CPCB anal	ISO180 PART: 21-2015	ISO180 PART: 2-2015	ISO180 PART: 6-2015

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. T.C.L/N/Env/CIL/130423

dt. 02.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CPL

Name of the client: Coremandel International Limited, Visakhapatnam

Location of sampling: Malaguda

Date of Collection: As per details given

Analysis Report for the Month of APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	38	87	80.3	13.3
06.04.2023	27	56	9.8	14.3
10.04.2023	39	68	12.7	16.6
12.04.2023	32	65	13.6	16.6
17.04.2023	29	68	10.2	15.5
19.04.2023	30	64	11.2	17.3
24.04.2023	26	55	9.7	13.7
Protocol	Gravimetric, CPCB manual	ISIRI PART- 21 :2006	ISIRI PART- 2 : 2001	ISIRI PART- 6 : 2004

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CIL/139523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mahagufa

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 40 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	30	58	11.5	15.5
04.05.2023	28	55	10.6	14.3
06.05.2023	31	62	12.5	16.6
11.05.2023	32	66	14.7	18.2
15.05.2023	28	58	10.8	15.5
19.05.2023	30	62	9.9	16.6
20.05.2023	27	56	9.2	14.7
Protocol	Gravimetric, CPCB method	ISIRI PART- 12 -2006	ISIRI PART- 2 -2006	ISIRI PART- 6 -2006

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

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TEST REPORT

Test Report No. TLCN/Env/CIL/14/0523

dt.01.06.2023

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

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gullabagudem

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	82	10.5	13.5
04.05.2023	29	54	12.0	15.8
05.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.3	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravimetric, CPCB manual	ISIRI PART- 23 -2006	ISIRI PART- 2 -2001	ISIRI PART- 6 -2004

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NABL Accredited Laboratory**TEST REPORT**

Test Report No. TLCN/Env/CIL/14/0523

dt.01.06.2023

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

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gullabagudem

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	82	10.5	13.5
04.05.2023	29	54	12.0	15.8
05.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.3	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravimetric, CPCB manual	ISIRI PART- 23 -2006	ISIRI PART- 2 -2001	ISIRI PART- 6 -2004

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TEST REPORT

Test Report No. TLC/V/Evo/CIL/130623

dt:01.07.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Carromandel International Limited, Visakhapatnam

Location of sampling: Malapeta

Date of Collection: As per details given

Analysis Report for the Month of JUNE-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.06.2023	31	60	11.5	13.8
07.06.2023	30	58	12.0	16.3
13.06.2023	32	62	12.5	16.0
15.06.2023	34	66	14.2	18.2
20.06.2023	25	55	10.2	15.5
23.06.2023	28	56	8.0	10.8
26.06.2023	29	60	9.7	14.3
Protocol	Gravimetric, CINCH method	ISO142 PART- 21 -2006	ISO142 PART- 2 -2005	ISO142 PART- 6 -2004

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

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TEST REPORT

Test Report No. TLC/V/Env/CIL/140723

01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CIL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gullabapalem

Date of Collection: As per details given

Analysis Report for the Month of JULY-2023

Date of monitoring	PM2.5 Limit 60 µg/m ³	PM10 Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
05.07.2023	22	48	9.5	12.6
08.07.2023	24	58	10.2	13.3
10.07.2023	22	45	9.4	11.8
13.07.2023	19	40	8.6	10.5
18.07.2023	16	34	7.4	9.8
22.07.2023	14	30	7.0	9.5
24.07.2023	15	38	8.0	10.8
Protocol	Overnight, CPCB protocol	IS1182 PART- 23 -2006	IS1182 PART- 2 -2001	IS1182 PART- 4 -2004

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TEST REPORT

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

dt. 01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Melagada

Date of Collection: As per details given

Analysis Report for the Month of JULY 2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO ₂ Limit 80 $\mu\text{g}/\text{m}^3$
05.07.2023	28	54	11.8	13.8
08.07.2023	24	65	18.5	14.2
14.07.2023	30	60	31.8	15.2
17.07.2023	20	42	9.7	15.5
18.07.2023	18	48	8.0	16.6
22.07.2023	16	35	7.8	16.0
24.07.2023	20	48	8.0	16.8
Protocol	Gravimetric, CPCB issued	IMP10 PART- 11-2006	IMP10 PART- 2-2001	IMP10 PART- 6-2006

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

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Test Report No. TLC/V/San/CL/148823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coramandel International Limited, Visakhapatnam

Location of sampling: Gollapalle

Date of Collection: As per details given

Analysis Report for the Month of AUGUST-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 86 $\mu\text{g}/\text{m}^3$	NO _x Limit 86 $\mu\text{g}/\text{m}^3$
02.08.2023	28	58	9.8	14.2
04.08.2023	26	55	10.0	13.5
09.08.2023	30	60	9.4	12.7
11.08.2023	32	67	11.2	15.0
16.08.2023	27	52	9.5	11.6
18.08.2023	15	38	8.8	10.2
21.08.2023	24	50	9.7	12.2
Method	Gravimetric, CPC8 method	ISS182 PART- 12 -2006	ISS182 PART-2 - 1994	ISS182 PART-4 -2004

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Test Report No. TLC/V/Env/CH/138823

dt.01.09.2023

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

Name of the client: Curamondel International Limited, Vaskiapatnam

Location of sampling: Madagala

Date of Collection: As per details given

Analysis Report for the Month of AUGUST-2023

Date of monitoring	PM2.5 Limit 50, $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.08.2023	26	54	10.8	14.8
04.08.2023	27	55	9.9	13.2
09.08.2023	32	64	11.8	16.3
11.08.2023	25	50	10.2	13.5
16.08.2023	28	56	9.7	13.2
18.08.2023	12	29	8.1	11.2
21.08.2023	26	54	9.1	10.9
Protocol	Gravimetric, CPC based	IS 5182 PART-23 - 2006	IS 5182 PART-2 - 2006	IS 5182 PART-4 - 2004

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

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TEST REPORT

Test Report No. TLC/VI/Eav/CHL/13/0923

dt. 03.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	24	52	9.8	11.6
06.09.2023	20	48	8.8	10.8
11.09.2023	21	50	8.3	11.2
13.09.2023	15	38	7.8	10.2
19.09.2023	20	44	8.6	12.2
21.09.2023	25	48	9.5	13.8
25.09.2023	26	54	8.7	14.2
Protocol	Gravimetric, CPCB manual	ISIRI PART- 21 -2006	ISIRI PART- 2 -2001	ISIRI PART- 6 -2004

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

For TEAM Labs and Consultants



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TEST REPORT

Test Report No. TLC/V/Env/CIL/14/0923

dt. 03.10.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Casemondel International Limited, Visakhapatnam

Location of sampling: Gullapalem

Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	25	52	7.5	13.3
06.09.2023	22	46	8.8	12.4
11.09.2023	20	42	7.8	10.6
13.09.2023	16	35	7.2	10.6
19.09.2023	21	45	9.7	12.8
21.09.2023	25	48	9.5	11.6
25.09.2023	27	50	10.1	13.8
Protocol	Gravimetric, CPCB method	ISSISO PART- 21 -2006	ISSISO PART- 2 -2005	ISSISO PART- 42-2004

For TEAM Labs and Consultants



Date: 29.05.2023

To: MRC/AMPC/2023-24

To
The Member Secretary,
A.P. Pollution Control Board,
Office 39-36-143/2, Near Sunrise Hospital,
Poddai Kalai Centre,
Chilukalapeta Street, Nellore City,
Nellore District 524 002

For the Member Secretary

APPCB/AMPC/2023-24
S. No. 188/2023-24
Date: 29.05.2023
To: MRC/AMPC/2023-24
From: MRC/AMPC/2023-24
Subject: For the submission of
Environmental Statement (ES) for
the proposed project of
MRC/AMPC/2023-24



1. In: Submission of Environmental Statement in Form-V for the financial year 2022-23 as per the
Environmental Protection Act - 1986 reg.

- Ref: 1. Consent Order No: APPCB/VP/MS/CH/MS/2017 - 10/10/2017
2. Consent Order No: MS/APP/MS/MS/CH/MS/2021 - 05/11/2021
3. Consent Order No: APPCB/VP/MS/MS/CH/MS/2022 - 31/12/2022

Dear Sir,

We are enclosing herewith the Environmental Statement for the financial year 2022-23 ending with
31st March 2023 in prescribed Form-V with respect to Coromandel International Ltd. along with
relevant documents.

This is submitted as per the guidelines of Environmental protection act - 1986.

Thanking you

Yours faithfully,
For Coromandel International Limited


M. Srinivasan
VP & Head - Manufacturing


M. Srinivasan
VP & Head - Manufacturing

- To: 1. The Joint Civil Environmental Engineer, Joint Office, APPCB, Vishakhapatnam-18
2. The Environmental Engineer, Regional Office, APPCB, Vishakhapatnam-18

EHS2-Vizag-Coromandel

From: Nagaraja P Mgr-EHS-Vizag-Coromandel
Sent: 29 September 2023 11:02
To: vinupappab@gmail.com; vinp-cs@ppco.gov.in; coromappco@ppco.gov.in
Cc: EHS2-Vizag-Coromandel; Sakthidip Mandal Mgr-Environment-Vizag-Coromandel; Nagaraja D AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra Sr.GM-EHS-Vizag-Coromandel
Subject: Submission of OL Form-V (Environmental Statement) for the period of 2022-2023
Attachments: OL-Vizag-Form-V-2022-2023.pdf

Dear Sir,

Here we are submitting the Environmental Statement, Form-V as per Environmental Protection Act, 1986 by Coromandel International Limited, Visakhapatnam for the period of 2022-2023.

Same original copy of Form-V along with backup documents we have submitted to head office, APPCB, Vijayawada through postal on **29.09.2023** and same copy submitted to your regional and zonal office today.

Again, we have submitted the same copy through mail as per your instruction.

Regards,
Nagaraja P
Manager-Environment
0100443493

SAVE ENVIRONMENT SAVE LIFE

Coromandel 
FUTURE POSITIVE
Coromandel International Limited
Srikrishnapuram, Mallakapeta PO
Visakhapatnam-530 011
Andhra Pradesh, India.
P: +91 853-2576800
W: www.coromandel.co.in
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CRCE-Viyeg-Commanet

From: Nagendra A-Mgr-Env-Viyeg-Commanet
Sent: 21 December 2024 17:31
To: asomphana-@@gov.in; nupayada@nupad.com; @nupayada
Cc: Env-Viyeg-Commanet; Subnupg; Vnaseal@nupad.com; nupad@nupad.com; Nagendra A-Mgr-Env-Viyeg-Commanet
Subject: Half yearly RC CRCE Compliance Report- 2024
Attachments: RC Compliance CRCE Baseline plan Apr-24-Sep-24.pdf

Dear Sir,

Ref to the TMO- 00/0/0001.0.0 dated 24.08.2023

Please find the attached half yearly compliance report of CRCE Clearance issued by MOPPC for construction of wastewater plant (Sanitation plant) with capacity of 10 MLD.

Period of submission : Apr 24 to Sep 24
Unit : Commanet International Limited, Visakhapatnam.

Regards,
Nagendra A
Manager-Environment
0920440020

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