

EHS/MoEF/2024-132

30/11/2024

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,
Nungambakkam, Chennai-600034

Dear Sir,

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

Ref: F. No. F.NO: 11/5/2022-IA.III dated 24.03.2022

Please find the attached half yearly compliance report of CRZ Clearance issued by MOEFCC for construction of seawater plant (Desalination plant) with capacity of 15 MLD.

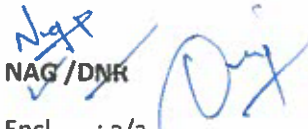
Period of submission : **April- 2024 to September-2024**
Unit : Coromandel International Limited, Visakhapatnam

Thanking You,

For Coromandel International Limited



M. Gnanasundaram
VP – Head Manufacturing


NAG/DNR

Encl : a/a

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

EHS2-Vizag-Coromandel

From: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel
Sent: 01 December 2024 18:19
To: eccompliance-ap@gov.in; rovspappcb@gmail.com; zovspappcb
Cc: Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; EHS2-Vizag-Coromandel; Nageswara Rao G-AsstMgr-EHS-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: Half Yearly EC (CRZ Clearance) Compliance Report- regd.
Attachments: CRZ compliance Desalination Plant (Apr-24 to Sep-24).pdf

Dear Sir,

Ref: F. No. F.NO: 11/5/2022-IA.III dated 24.03.2022

Please find the attached half yearly compliance report of CRZ Clearance issued by MOEFCC for construction of seawater plant (Desalination plant) with capacity of 15 MLD.

Period of submission : April -2024 to September-2024

Unit : Coromandel International Limited, Visakhapatnam.

Regards,
Nagarjuna P
Manager-Environment
9100443439

SAVE ENVIRONMENT SAVE LIFE


Coromandel
FUTURE POSITIVE
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F: +91 891-2578400
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A MURUGAPPA GROUP COMPANY

Coromandel International Limited, Visakhapatnam

Compliance status of Environment clearance

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

F.NO: 11/5/2022-IA.III DT: 24.03.2022

For the period from April -2024 to September-2024

S.NO	CONDITIONS	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.
2	No storage reservoir for sea water shall be permitted and only pipelines conveyance system shall be installed.	Noted.
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, we are not extracting any groundwater. Our water requirement is made through the existing desalination plant of 6 MLD and water supply from GVMC.
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.	Noted and complied.
5	Any physical infrastructure setup during construction period shall be removed simultaneously with completion of laying of each segment of the project.	Noted.
6	All the conditions stipulated by the Andhra Pradesh Coastal Zone Management Authority for CRZ clearance vide its letter no: 307/CRZ/IND/2021 dt: 18.01.2022 and commitments made by the PP before the CZMA and EAC shall be followed in letter and spirit.	Noted for Compliance
7	All necessary clearance from the concerned authority, as may be applicable should be obtained prior to commencement of project or activity.	Complied. We have obtained all the prior approvals prior to the commencement of the project. Reference CFO & CFE from APPCB. CFO order APPCB/VSP/65/CFO/HO/1967 dated. 04.08.2023 and CFE order No. 65/APPCB/CFE/RO-VSP/HO/2012 dated 22.11.2022.
PART –B –GENERAL CONDITIONS		
1	Management of solid waste in accordance with the Solid waste Management Rules, 2016 shall be strictly implemented.	Noted, Solid waste management is being handled as per the solid waste management rules as applicable.
2	Consent to Establish and or Consent to Operate shall be obtained from State Pollution Control	The Consent to Establish and/or Consent to Operate has been obtained from the

Coromandel International Limited, Visakhapatnam

	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.	APPCB under the provisions of the Air (Prevention and Control of Pollution) Act, 1981 and/or the Water (Prevention and Control of Pollution) Act, 1974, as may be applicable. CFE & CFO from APPCB. CFE order No. 65/APPCB/CFE/RO-VSP/HO/2012 dated 22.11.2022 and CFO order APPCB/VSP/65/CFO/HO/1967 dated. 04.08.2023.
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.	Complied. We will ensure that the disposal of muck during the construction phase will not create any adverse effects on the neighboring communities. All muck will be disposed of with the necessary precautions for general safety and health aspects of people. Disposal will occur only in approved sites, with the approval of the competent authority, ensuring minimal impact on the environment and surrounding population.
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 HVAC Colling 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.	Presently we have completed construction of 06MLD out of total capacity 15MLD and presently generating around 10000 KLD Per day of the generation of brine from the process which is being disposed into the sea through the existing discharge canal.
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.	Noted
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/Tehsildars office for 30days.	Complied
7	A Six-monthly monitoring report shall need to be submitted by the project proponent to the	Noted

Coromandel International Limited, Visakhapatnam

	concerned regional office of this Ministry regarding the implementation of the stipulated conditions.	We liberally submitted half yearly report to submitted concerned authorities
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 and will be adhered.
9	The above stipulations would be enforced among others under the provisions of the Water (Prevention and Control of pollution) Act, 1974	Noted
10	Full co-operation shall be extended to the officials from the Regional office of MoEF&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 MoEF&CC shall be forwarded to the concerned Regional Office of MoEF&CC.	Complied The full cooperation shall be extended to the officials from the Regional Office of MoEF&CC during their monitoring of the implementation of environmental safeguards. All requested documents and data shall be promptly made available to the monitoring team.
11	In the case of any change(s) in the scope of the project, the project would require a fresh appraisal by this Ministry.	Noted
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.	Noted
13	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc shall be obtained, as applicable by project proponent from the respective competent authorities.	Noted Storage of Diesel from Chief Controller of Explosives valid up to 31/12/2024 , Fire Department Fire NOC Valid Up to 14/11/2025 A copy of the PESO & Fire NOC enclosed in Annexure - 01
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	Complied The copy of the advertisements was forwarded to the Ministry vide our letter dtd. 08-04-2022.

Coromandel International Limited, Visakhapatnam

	http://www.envfor.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.	
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 An acknowledgment copy is attached in Annexure - 02
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 We are regularly sending the Half yearly Report along with all the monitoring data to the concerned authorities. The report is also hosted on the Company's WEB Site :- https://www.coromandel.biz/sustainability/environment/
17	The environmental statement for each financial year ending 31 st March in form –V 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.	Complied. The environmental statement for the year FY:2023-24 has been submitted ON 27.09.2024 Copy of the acknowledgment herewith is enclosed as Annexure-03 . The report is also hosted on the Company's WEB Site :- https://www.coromandel.biz/sustainability/environment/

EHS/APPCB/2024-33**Dated:22/04/2024**

To
The Environmental Engineer,
Regional Office, 3rd Floor
A.P. Pollution Control Board,
Visakhapatnam -18

Dear Sir,

**Sub: Submission of Coromandel International Limited, SAP-03 & Desalination Plant
Fire NOC's – Reg.**

Ref: i) CFO Order No: APPCB/VSP/65/CFO/HO/1967 - 04/08/2023

With reference to above as per the above-mentioned CFO order special condition number: 48
, we are herewith submitting below listed Fire NOC's given by the Andhra Pradesh State
Disaster Response and Fire service department.

S. No	Name of the plant	Letter no.	Validity Date
1	Coromandel International Limited (SAP-03 & Desalination Plant, Visakhapatnam	File.No.20042/VSP/MSB/2023, Dated: 15/11/2023	14.11.2025

This is for your kind information & Records
Thanking you,

Yours faithfully,
For **COROMANDEL INTERNATIONAL LIMITED**



Gnanasundaram M
Vive President & Head of Manufacturing



NAG/DNR

Encl: Fire NOC copy

EHS2-Vizag-Coromandel

From: Nageswara Rao G-AsstMgr-EHS-Vizag-Coromandel
Sent: 24 April 2024 16:10
To: rovspappcb@gmail.com
Cc: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel; EHS2-Vizag-Coromandel; Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: CIL-Vizag submission of special conditions reports
Attachments: Submission of AAQMS online data for the six months as per EC complex PAP.crdownload; Submission of SAP -3 & Desalination plant Fire NOC.crdownload; Submission of monthly Piezo Well analysis report as per EC complex PAP.crdownload; Submission of Piezo Well analysis report as per CFO.crdownload; Public Liability Policy (PLI) April - 2024-2025 (Policy No. 96000036243300000001).pdf

Dear Sir,

Here we are submitting the following Special Conditions reports for your consideration.

1. Public Liability Act copy (Policy No. 96000036243300000001).
2. Fire NOC
3. Piezo well water analyses Quarterly reports as per CFO
4. Piezo well water analyses monthly reports as per EC
5. AAQMS online data reports as per EC

The same original copy along with backup documents we submitted on **23.04.2024** to your regional office. Again, we have submitted the same copy through mail as per your instruction.

Thanks & Regards,
Nageswara Rao G



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Andhrapradesh, India.

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A MURUGAPPA GROUP COMPANY

Government of Andhra Pradesh
A.P. State Disaster Response and Fire Services Department

No Objection Certificate for Occupancy

To
The District Industrial Center,
Visakhapatnam
Sir/Madam,

File No: 20042/VSP/MSB/2023

Date: 15/11/2023

Sub: Andhra Pradesh State Disaster Response and Fire Services Department - No Objection Certificate for Occupancy to the existing / newly constructed Multi Storeyed Building (Coromandel International Limited, Visakhapatnam) NAGARAJU D, Coromandel International Limited Sriharipuram - Regarding.

- Ref: 1. Online Application Dt. 04-11-2023 , NAGARAJU D, Coromandel International Limited Sriharipuram
2. Online Inspection Report submitted by Officers of this Department on 18-10-2023.

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It is to inform that NAGARAJU D applied for No Objection Certificate on 04-11-2023 for Occupancy to the existing / newly constructed Multi Storeyed Building for Coromandel International Limited, Visakhapatnam at Coromandel International Limited Sriharipuram. The officers of the department have scrutinized the information, documents and plans submitted by the applicant along with the undertaking provided by the applicant, and have submitted the following report.

Fire Station

2. The builder has constructed a Multi Storeyed Building with Ground Floor with a height of 4.5 Mtrs for Industrial Occupancy (Category - G1) in a total plot area of 1214100.00 sq. meters.
3. The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Bulder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

4. The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
1	Internal Staircases	0 No. - 0.00 Meters
2	External Staircases	0 No. - 0.00 Meters
Total		0 Meters

5. The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	113.5	Industrial	11	11	0.11	0.00
	Total	113.5		11			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	1 Nos.	1 Nos.
2	Hose Reel Systems	1 Nos.	0 Nos.
3	Terrace Tank	20000 Ltrs	20000 Ltrs
4	Booster Pump		
5	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	1 / 1	1 / 0				-- / --	-- / --	-- / --					
	Total	1 / 1	1 / 0	-- / --	-- / --	-- / --	0 / 0	0 / 0	0 / 0	-- / --	20000 Ltrs / 20000 Ltrs	450 LPM / 450 LPM	-- / --	-- / --

- Provide ABC 5 kg/6 kg fire extinguishers

Sulphuric Acid Tank

2. The builder has constructed a Multi Storeyed Building with Ground Floor with a height of 13.25 Mtrs for Industrial Occupancy (Category - G3) in a total plot area of 1214100.00 sq. meters.

3. The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

4. The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
2	Internal Staircases	0 No. - 0.00 Meters
3	External Staircases	0 No. - 0.00 Meters
	Total	0 Meters

5. The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided (Meters)
1	Ground Floor	3354.4	Industrial	335	335	3.35	0.00
	Total	3354.4		335			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	34 Nos.	34 Nos.
2	Hose Reel Systems	7 Nos.	0 Nos.
3	Wet Riser	7 Nos (For Each Floor)	7 Nos (For Each Floor)
4	Yard Hydrants	YH_30_YH	YH_30_YH
5	Automatic Sprinkler System	373 Nos.	0 Nos.
6	Automatic Detection & Alarm System	60 Nos.	0 Nos.
7	Underground Tank	150000 Ltrs	150000 Ltrs
8	Terrace Tank	20000 Ltrs	20000 Ltrs
9	Fire Pump	Note-11	Note-11
10	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	34 /34	7 /0				373 /0	4 /0	60 /0					
	Total	34 /34	7 /0	7 Nos (For Each Floor) /7 Nos (For Each Floor)	-- /--	YH_30_YH /YH_30_YH	373 /0	4 /0	60 /0	150000 Ltrs /150000 Ltrs	20000 Ltrs /20000 Ltrs	Note-11 /Note-11	-- /--	-- /--

- WetRiser / DownComer - 100mm with single outlet landing valves.
- In addition to above ABC 5 kg/6 kg fire extinguisher, provide 50 litre water CO2 /25 kg ABC fire extinguisher for every 100 m2 of floor area.
- Provide 1 Yard Hydrant for every 30 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

Technical Building

2. The builder has constructed a Multi Storeyed Building with Ground Floor + One Upper Floor with a height of 9 Mtrs for Industrial Occupancy (Category - G2) in a total plot area of 1214100.00 sq. meters.

3. The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

4. The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
3	Internal Staircases	1 No. - 1.50 Meters
4	External Staircases	1 No. - 1.50 Meters
	Total	3 Meters

5. The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	415	Industrial	41	41	0.41	3.00
2	First Floor	415	Industrial	41	41	0.41	3.00
	Total	830		82			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	10 Nos.	10 Nos.
2	Hose Reel Systems	2 Nos.	2 Nos.
3	Automatic Sprinkler System	71 Nos.	71 Nos.
4	Terrace Tank	20000 Ltrs	20000 Ltrs
5	Booster Pump	900	900
6	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	5/5	1/1				36/36	--/--	--/--					
2	First Floor	5/5	1/1				35/35	--/--	--/--					
	Total	10/10	2/2	--/--	--/--	--/--	71/71	0/0	0/0	--/--	20000 Ltrs / 20000 Ltrs	--/--	900 / 900	--/--

- Provide ABC 5 kg/6 kg fire extinguishers

Center of Excellence Building (COE)

2. The builder has constructed a Multi Storeyed Building with Ground Floor + One Upper Floor with a height of 9 Mtrs for Industrial Occupancy (Category - G2) in a total plot area of 1214100.00 sq. meters.

3. The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

4. The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
4	Internal Staircases	1 No. - 1.50 Meters
5	External Staircases	1 No. - 1.50 Meters
Total		3 Meters

5. The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	462	Industrial	46	46	0.46	3.00
2	First Floor	462	Industrial	46	46	0.46	3.00
	Total	924		92			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	10 Nos.	10 Nos.
2	Hose Reel Systems	2 Nos.	2 Nos.
3	Automatic Sprinkler System	78 Nos.	78 Nos.
4	Terrace Tank	20000 Ltrs	20000 Ltrs
5	Booster Pump	900	900
6	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	5/5	1/1				39/39	--/--	--/--					
2	First Floor	5/5	1/1				39/39	--/--	--/--					
	Total	10 /10	2/2	--/--	--/--	--/--	78/78	0/0	0/0	--/--	20000 Ltrs /20000 Ltrs	--/--	900 /900	--/--

- Provide ABC 5 kg/6 kg fire extinguishers

Desalination Plant.

2. The builder has constructed a Multi Storeyed Building with Ground Floor with a height of 9 Mtrs for Industrial Occupancy (Category - G2) in a total plot area of 1214100.00 sq. meters.

3. The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

4. The builder has constructed following means of escape:

SI	Details of Staircases	Provided Nos / Meters
5	Internal Staircases	0 No. - 0.00 Meters
6	External Staircases	0 No. - 0.00 Meters
Total		0 Meters

5. The builder has proposed to provide Occupant Load :

SI	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground floor	5400	Industrial	540	540	5.40	0.00
	Total	5400		540			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

SI	Fire Safety System	Proposed as per PNOG	Provided
1	Fire Extinguishers	54 Nos.	54 Nos.
2	Hose Reel Systems	11 Nos.	0 Nos.
3	Wet Riser	11 Nos (For Each Floor)	11 Nos (For Each Floor)
4	Yard Hydrants	YH_45_YH	YH_45_YH
5	Automatic Sprinkler System	450 Nos.	0 Nos.
6	Automatic Detection & Alarm System	96 Nos.	0 Nos.
7	Underground Tank	150000 Ltrs	150000 Ltrs
8	Terrace Tank	20000 Ltrs	20000 Ltrs
9	Fire Pump	Note-11	Note-11
10	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground floor	54 /54	11 /0				450 /0	6 /0	96 /0					

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
	Total	54 /54	11 /0	11 Nos (For Each Floor) /11 Nos (For Each Floor)	-- /--	YH_45 _YH /YH_45 _YH	450 /0	6 /0	96 /0	150000 Ltrs /150000 Ltrs	20000 Ltrs /20000 Ltrs	Note- 11 /Note- 11	-- /--	-- /--

- WetRiser / DownComer - 100mm with single outlet landing valves.
- Provide ABC 5 kg/6 kg fire extinguishers
- Provide 1 Yard Hydrant for every 45 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

HSD Area & Air Compressor Shed

- The builder has constructed a Multi Storeyed Building with Ground Floor with a height of 5.4 Mtrs for Industrial Occupancy (Category - G3) in a total plot area of 1214100.00 sq. meters.
- The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

- The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
6	Internal Staircases	0 No. - 0.00 Meters
7	External Staircases	0 No. - 0.00 Meters
Total		0 Meters

- The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	554.34	Industrial	55	55	0.55	0.00
	Total	554.34		55			

- The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	8 Nos.	8 Nos.

Sl	Fire Safety System	Proposed as per PNOC	Provided
2	Hose Reel Systems	2 Nos.	0 Nos.
3	Wet Riser	2 Nos (For Each Floor)	2 Nos (For Each Floor)
4	Yard Hydrants	YH_30_YH	YH_30_YH
5	Automatic Sprinkler System	62 Nos.	0 Nos.
6	Automatic Detection & Alarm System	10 Nos.	0 Nos.
7	Underground Tank	150000 Ltrs	150000 Ltrs
8	Terrace Tank	20000 Ltrs	20000 Ltrs
9	Fire Pump	Note-11	Note-11
10	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl.
1	Ground Floor	8 / 8	2 / 0				62 / 0	1 / 0	10 / 0					
	Total	8 / 8	2 / 0	2 Nos (For Each Floor) / 2 Nos (For Each Floor)	-- / --	YH_30_YH / YH_30_YH	62 / 0	1 / 0	10 / 0	150000 Ltrs / 150000 Ltrs	20000 Ltrs / 20000 Ltrs	Note-11 / Note-11	-- / --	-- / --

- Wet Riser / Down Comer - 100mm with single outlet landing valves.
- In addition to above ABC 5 kg/6 kg fire extinguisher, provide 50 litre water CO2 /25 kg ABC fire extinguisher for every 100 m2 of floor area.
- Provide 1 Yard Hydrant for every 30 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

TG 3 & TG 3 Cooling Tower

- The builder has constructed a Multi Storeyed Building with Ground Floor + One Upper Floor with a height of 8.75 Mtrs for Industrial Occupancy (Category - G2) in a total plot area of 1214100.00 sq. meters.
- The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

- The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
7	Internal Staircases	1 No. - 1.50 Meters
8	External Staircases	1 No. - 1.50 Meters
	Total	3 Meters

5. The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided (Meters)
1	Ground floor	1632	Industrial	163	163	1.63	3.00
2	First Floor	805.7	Industrial	80	80	0.80	3.00
	Total	2437.7		243			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	26 Nos.	26 Nos.
2	Hose Reel Systems	6 Nos.	6 Nos.
3	Wet Riser	4 Nos (For Each Floor)	4 Nos (For Each Floor)
4	Yard Hydrants	YH_45_YH	YH_45_YH
5	Automatic Sprinkler System	204 Nos.	204 Nos.
6	Manually Operated Electric Fire Alarm System	3 Nos.	3 Nos.
7	Automatic Detection & Alarm System	45 Nos.	45 Nos.
8	Underground Tank	150000 Ltrs	150000 Ltrs
9	Terrace Tank	20000 Ltrs	20000 Ltrs
10	Fire Pump	Note-11	Note-11
11	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground floor	17 / 17	4 / 4				136 / 136	2 / 2	30 / 30					
2	First Floor	9 / 9	2 / 2				68 / 68	1 / 1	15 / 15					

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
	Total	26 /26	6 /6	4 Nos (For Each Floor) /4 Nos (For Each Floor)	-- /--	YH_45 _YH /YH_45 _YH	204 /204	3 /3	45 /45	150000 Ltrs /150000 Ltrs	20000 Ltrs /20000 Ltrs	Note- 11 /Note- 11	-- /--	-- /--

- WetRiser / DownComer - 100mm with single outlet landing valves.
- Provide ABC 5 kg/6 kg fire extinguishers
- Provide 1 Yard Hydrant for every 45 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

Cooling Tower

- The builder has constructed a Multi Storeyed Building with Ground Floor with a height of 10.9 Mtrs for Industrial Occupancy (Category - G1) in a total plot area of 1214100.00 sq. meters.
- The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

- The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
8	Internal Staircases	0 No. - 0.00 Meters
9	External Staircases	0 No. - 0.00 Meters
	Total	0 Meters

- The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	1595.8	Industrial	159	159	1.59	0.00
	Total	1595.8		159			

- The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	8 Nos.	8 Nos.
2	Hose Reel Systems	4 Nos.	0 Nos.

Sl	Fire Safety System	Proposed as per PNOC	Provided
3	Down Comer	4 Nos (For Each Floor)	4 Nos (For Each Floor)
4	Terrace Tank	25000 Ltrs	25000 Ltrs
5	Booster Pump	450 LPM	450 LPM
6	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	8 / 8	4 / 0				-- / --	-- / --	-- / --					
	Total	8 / 8	4 / 0	-- / --	4 Nos (For Each Floor) / 4 Nos (For Each Floor)	-- / --	0 / 0	0 / 0	0 / 0	-- / --	25000 Ltrs / 25000 Ltrs	-- / --	450 LPM / 450 LPM	-- / --

- Provide ABC 5 kg/6 kg fire extinguishers
- WetRiser / DownComer - 100mm with single outlet landing valves.

Acid Section

2. The builder has constructed a Multi Storeyed Building with Ground Floor + 3 Upper Floors with a height of 7 Mtrs for Industrial Occupancy (Category - G3) in a total plot area of 1214100.00 sq. meters.

3. The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

4. The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
9	Internal Staircases	1 No. - 1.50 Meters
10	External Staircases	1 No. - 1.50 Meters
	Total	3 Meters

5. The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided (Meters)
1	Ground Floor	1885.93	Industrial	188	188	1.88	3.00
2	First Floor	463.54	Industrial	46	46	0.46	3.00
3	Second Floor	463.54	Industrial	46	46	0.46	3.00
4	Third Floor	163.11	Industrial	16	16	0.16	3.00
	Total	2976.12		296			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	31 Nos.	31 Nos.
2	Hose Reel Systems	7 Nos.	0 Nos.
3	Wet Riser	4 Nos (For Each Floor)	4 Nos (For Each Floor)
4	Yard Hydrants	YH_30_YH	YH_30_YH
5	Automatic Sprinkler System	333 Nos.	0 Nos.
6	Manually Operated Electric Fire Alarm System	5 Nos.	0 Nos.
7	Automatic Detection & Alarm System	55 Nos.	0 Nos.
8	Underground Tank	150000 Ltrs	150000 Ltrs
9	Terrace Tank	20000 Ltrs	20000 Ltrs
10	Fire Pump	Note-11	Note-11
11	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	19 /19	4 /0				210 /0	2 /0	34 /0					
2	First Floor	5 /5	1 /0				52 /0	1 /0	9 /0					
3	Second Floor	5 /5	1 /0				52 /0	1 /0	9 /0					
4	Third Floor	2 /2	1 /0				19 /0	1 /0	3 /0					

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
	Total	31 /31	7 /0	4 Nos (For Each Floor) /4 Nos (For Each Floor)	-- /--	YH_30 _YH /YH_30 _YH	333 /0	5 /0	55 /0	150000 Ltrs /150000 Ltrs	20000 Ltrs /20000 Ltrs	Note- 11 /Note- 11	-- /--	-- /--

- WetRiser / DownComer - 100mm with single outlet landing valves.
- In addition to above ABC 5 kg/6 kg fire extinguisher, provide 50 litre water CO2 /25 kg ABC fire extinguisher for every 100 m2 of floor area.
- Provide 1 Yard Hydrant for every 30 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

Molten Sulphur Tanks

- The builder has constructed a Multi Storeyed Building with Ground Floor with a height of 11.4 Mtrs for Industrial Occupancy (Category - G3) in a total plot area of 1214100.00 sq. meters.
- The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

- The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
10	Internal Staircases	0 No. - 0.00 Meters
11	External Staircases	0 No. - 0.00 Meters
	Total	0 Meters

- The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	1144.8	Industrial	114	114	1.14	0.00
	Total	1144.8		114			

- The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	12 Nos.	12 Nos.

Sl	Fire Safety System	Proposed as per PNOC	Provided
2	Hose Reel Systems	3 Nos.	0 Nos.
3	Wet Riser	3 Nos (For Each Floor)	3 Nos (For Each Floor)
4	Yard Hydrants	YH_30_YH	YH_30_YH
5	Automatic Sprinkler System	128 Nos.	128 Nos.
6	Automatic Detection & Alarm System	21 Nos.	21 Nos.
7	Underground Tank	150000 Ltrs	150000 Ltrs
8	Terrace Tank	20000 Ltrs	20000 Ltrs
9	Fire Pump	Note-11	Note-11
10	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl.
1	Ground Floor	12 /12	3 /0				128 /128	3 /3	21 /21					
	Total	12 /12	3 /0	3 Nos (For Each Floor) /3 Nos (For Each Floor)	-- /--	YH_30_YH /YH_30_YH	128 /128	3 /3	21 /21	150000 Ltrs /150000 Ltrs	20000 Ltrs /20000 Ltrs	Note-11 /Note-11	-- /--	-- /--

- WetRiser / DownComer - 100mm with single outlet landing valves.
- In addition to above ABC 5 kg/6 kg fire extinguisher, provide 50 litre water CO2 /25 kg ABC fire extinguisher for every 100 m2 of floor area.
- Provide 1 Yard Hydrant for every 30 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

Control Room

- The builder has constructed a Multi Storeyed Building with Ground Floor + One Upper Floor with a height of 12 Mtrs for Industrial Occupancy (Category - G2) in a total plot area of 1214100.00 sq. meters.
- The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

- The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
11	Internal Staircases	1 No. - 1.50 Meters
12	External Staircases	1 No. - 1.50 Meters
	Total	3 Meters

5. The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	676.8	Industrial	67	67	0.67	3.00
2	First Floor	676.8	Industrial	67	67	0.67	3.00
	Total	1353.6		134			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	14 Nos.	14 Nos.
2	Hose Reel Systems	4 Nos.	4 Nos.
3	Down Comer	2 Nos (For Each Floor)	2 Nos (For Each Floor)
4	Automatic Sprinkler System	114 Nos.	114 Nos.
5	Manually Operated Electric Fire Alarm System	2 Nos.	2 Nos.
6	Automatic Detection & Alarm System	26 Nos.	26 Nos.
7	Terrace Tank	50000 Ltrs	50000 Ltrs
8	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	7 / 7	2 / 2				57 / 57	1 / 1	13 / 13					
2	First Floor	7 / 7	2 / 2				57 / 57	1 / 1	13 / 13					
	Total	14 / 14	4 / 4	-- / --	2 Nos (For Each Floor) / 2 Nos (For Each Floor)	-- / --	114 / 114	2 / 2	26 / 26	-- / --	50000 Ltrs / 50000 Ltrs	-- / --	Note-11 / Note-11	-- / --

- Provide ABC 5 kg/6 kg fire extinguishers
- WetRiser / DownComer - 100mm with single outlet landing valves.

2. The builder has constructed a Multi Storeyed Building with Ground Floor + 2 Upper Floors with a height of 11 Mtrs for Industrial Occupancy (Category - G3) in a total plot area of 1214100.00 sq. meters.

3. The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

4. The builder has constructed following means of escape:

SI	Details of Staircases	Provided Nos / Meters
12	Internal Staircases	0 No. - 0.00 Meters
13	External Staircases	1 No. - 1.50 Meters
Total		1.5 Meters

5. The builder has proposed to provide Occupant Load :

SI	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
1	Ground Floor	1629.7	Industrial	162	162	1.62	1.50
2	First Floor	124.5	Industrial	12	12	0.12	1.50
3	Second Floor	124.5	Industrial	12	12	0.12	1.50
	Total	1878.7		186			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

SI	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	25 Nos.	25 Nos.
2	Hose Reel Systems	6 Nos.	0 Nos.
3	Wet Riser	4 Nos (For Each Floor)	4 Nos (For Each Floor)
4	Yard Hydrants	YH_30_YH	YH_30_YH
5	Automatic Sprinkler System	209 Nos.	0 Nos.
6	Manually Operated Electric Fire Alarm System	3 Nos.	0 Nos.
7	Automatic Detection & Alarm System	35 Nos.	0 Nos.
8	Underground Tank	150000 Ltrs	150000 Ltrs
9	Terrace Tank	20000 Ltrs	20000 Ltrs
10	Fire Pump	Note-11	Note-11
11	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC

of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	17 /17	4 /0				181 /0	1 /0	29 /0					
2	First Floor	4 /4	1 /0				14 /0	1 /0	3 /0					
3	Second Floor	4 /4	1 /0				14 /0	1 /0	3 /0					
	Total	25 /25	6 /0	4 Nos (For Each Floor) /4 Nos (For Each Floor)	-- /--	YH_30 _YH /YH_30 _YH	209 /0	3 /0	35 /0	150000 Ltrs /150000 Ltrs	20000 Ltrs /20000 Ltrs	Note- 11 /Note- 11	-- /--	-- /--

- WetRiser / DownComer - 100mm with single outlet landing valves.
- In addition to above ABC 5 kg/6 kg fire extinguisher, provide 50 litre water CO2 /25 kg ABC fire extinguisher for every 100 m2 of floor area.
- Provide 1 Yard Hydrant for every 30 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

Sulphur Godown

- The builder has constructed a Multi Storeyed Building with Ground Floor with a height of 12 Mtrs for Industrial Occupancy (Category - G3) in a total plot area of 1214100.00 sq. meters.
- The builder has provided open spaces all around the building

Side	Open Space Required as per 119 APBR 2016	Open Space Provided by the Builder
North	3 Meters	6.00 Meters
East	5 Meters	6.00 Meters
South	5 Meters	6.00 Meters
West	5 Meters	6.00 Meters

- The builder has constructed following means of escape:

Sl	Details of Staircases	Provided Nos / Meters
13	Internal Staircases	0 No. - 0.00 Meters
14	External Staircases	0 No. - 0.00 Meters
Total		0 Meters

- The builder has proposed to provide Occupant Load :

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided (Meters)
1	Ground Floor	1431.3	Industrial	143	143	1.43	0.00

Sl	Floor	Built up area (Sq Mtrs)	Occupancy Type	No of Occupants as declared by the builder	No of Occupants as per NBC	Aggregate width of Staircases Required (Meters)	Aggregate width of Staircases Provided(Meters)
	Total	1431.3		143			

6. The minimum Fire Fighting Installations required and provided as per Table 7 of Part 4 of National Building Code of India 2016 are:

Sl	Fire Safety System	Proposed as per PNOC	Provided
1	Fire Extinguishers	15 Nos.	15 Nos.
2	Hose Reel Systems	3 Nos.	0 Nos.
3	Wet Riser	3 Nos (For Each Floor)	3 Nos (For Each Floor)
4	Yard Hydrants	YH_30_YH	YH_30_YH
5	Automatic Sprinkler System	160 Nos.	160 Nos.
6	Automatic Detection & Alarm System	26 Nos.	0 Nos.
7	Underground Tank	150000 Ltrs	150000 Ltrs
8	Terrace Tank	20000 Ltrs	20000 Ltrs
9	Fire Pump	Note-11	Note-11
10	Additional Fire Safety measures		

7. The builder has provided the following floorwise Fire Fighting installations as per Table 7 of Part - 4 of NBC of India 2016.

Sl.	Floor	Fire Ext.	Hose Reel	Wet Riser	Down Comer	Yard Hydrants	Sprinklers	MCP	Auto. Det.	Underground Tank	Terrace Tank	Fire Pump	Booster Pump	Addl
1	Ground Floor	15 /15	3 /0				160 /160	3 /3	26 /0					
	Total	15 /15	3 /0	3 Nos (For Each Floor) /3 Nos (For Each Floor)	-- /--	YH_30_YH /YH_30_YH	160 /160	3 /3	26 /0	150000 Ltrs /150000 Ltrs	20000 Ltrs /20000 Ltrs	Note-11 /Note-11	-- /--	-- /--

- WetRiser / DownComer - 100mm with single outlet landing valves.
- In addition to above ABC 5 kg/6 kg fire extinguisher, provide 50 litre water CO2 /25 kg ABC fire extinguisher for every 100 m2 of floor area.
- Provide 1 Yard Hydrant for every 30 mts of Travel Distance along the Perimeter.
- Note 11: Provide required number of sets of pumps each consisting of 2 Electric and 1 Diesel Pump (standby) of capacity 2280 Litres/min and two Electric Pump of Capacity 180 Litres/min.

8. The Officers of the department have recommended to issue The No Objection Certificate for Occupancy of MSB Industrial Building (G1) belonging to NAGARAJU D Coromandel International Limited Sriharipuram, subject to the following conditions.

The No Objection Certificate for Occupancy is issued subject to the following conditions:

1. This NOC is issued only in the Fire Safety Point of View and this doesnot give the Applicant a right to claim ownership of the property.
2. All fire safety systems provided shall be maintained in trim working condition at all times.
3. All Security/ Maintenance personnel shall be trained on the usage of fire equipment provided.
4. Fire Drills shall be conducted once in every 3 months.
5. As per report of MSB Inspection committee; the NOC Committee has scrutinized the Inspection Committee Report along with Proposals and recommended for issuance of No Objection Certificate for Occupancy subject to the following Conditions.

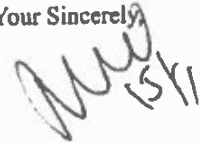
Sl	As Builder	As Occupant	As Security Personnel
1	All the fire protection arrangements shall be maintained in good condition as seen during inspection.	All the escape/exit routes shall not be kept locked/blocked or encroached	All the occupants must know the correct method of operation of the fire fighting system installed.
2	Any loss of life or property due to non-functioning of fire safety measures and other installations shall be the responsibilty of the management.	All occupants shall be trained to operate the fire safety equipments during emergency.	Mock drills should be conducted once in 3 months for initial two years. Thereafter, once in every 6 months.
3	Addition / alteration, if any in the building may be verified by building authority.	Mock drills should be conducted once in 3 months for initial two years. Thereafter, once in every 6 months.	All security personnel shall be trained to operate the fire safety equipments during emergency.
4	This No objection Certificate for occupancy is valid for one year from the date of issue of this letter	Raise the alarm if the fire cannot be controlled; Evacuate the area completely at once from nearest safe exit.	Attack the fire using available fire equipment only if you feel capable of controlling. If not, take all steps to isolate the area by closing doors and windows.

6. This No Objection Certificate for Occupancy is valid for a period of Two(02) years only from the date of issue of this letter. It is the responsibility of the builder to apply for Renewal of No Objection Certificate for Occupancy, duly remitting the User Charges as per G.O.Ms.No.71, Home (Prison-A) Department, dated 01-04-2010 and G.O.Ms.No.140, Home (Prison & Fire) Department, dated.04-09-2015, before expiry of this No Objection Certificate.

9. The following deficiencies are identified by the officers of the department and need to be attended to by the management.

In view of the above, as per the recommendations of the NOC Committee, the No Objection Certificate for Occupancy is hereby issued to the Newly constructed Multi Storeyed Building subject to the above conditions.

Your Sincerely,



Director General

State Disaster Response & Fire Services
Andhra Pradesh, Vijayawada

Copy to NAGARAJU D, The management of Coromandel International Limited, Visakhapatnam,
HQEsXMryLJZfe8msZ8HAnRgxXMDA3aU7EsGu97DaPmT7

Copy to Chief Office for Record Purpose
Copy to Regional Fire Officer concerned

11/15/23, 4:30 PM

A.P. State Disaster Response and Fire Services Department

Copy to District Fire Officer concerned

Copy to Assistant District Fire Officer concerned

Annexure- 1


भारत सरकार
Government of India
वाणिज्य और उद्योग मंत्रालय
Ministry of Commerce & Industry
पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)
Petroleum & Explosives Safety Organisation (PESO)
रूम नं. 602, 6th फ्लोर,, सी. जी. ओ. टावर्स, कवडीगुडा
सिकंदराबाद- 500080
Room No. 602, 6th floor,
C.G.O. Towers, Kavadiguda,
Secunderabad - 500080

E-mail : dyccehyderabad@explosives.gov.in
Phone/Fax No : 040 - 27540359

संख्या /No. : **P/SH/AP/15/4248 (P563873)** दिनांक /Dated : **17/05/2024**
सेवा में /To,

**M/s. COROMANDEL INTERNATIONAL LIMITED,
Sriharipuram, Visakhapatnam Urban,
Visakhapatnam,
Sriharipuram,
Visakhapatnam (Urban),
Taluka: Visakhapatnam (Urban),
District: VISAKHAPATNAM,
State: Andhra Pradesh
PIN: 530011**

विषय /Sub : **Survey No, 4-9(Old) 17 (New), Gullalapalem, Visakhapatnam Urban, Sriharipuram, Visakhapatnam (Urban), Taluka: Visakhapatnam (Urban), District: VISAKHAPATNAM, State: Andhra Pradesh, PIN: 530011 में पेट्रोलियम वर्ग B का अधिष्ठापन -अनुज्ञप्ति जारी करने के बारे में ।**
Petroleum Class B Installation at Survey No, 4-9(Old) 17 (New), Gullalapalem, Visakhapatnam Urban, Sriharipuram, Visakhapatnam (Urban), Taluka: Visakhapatnam (Urban), District: VISAKHAPATNAM, State: Andhra Pradesh, PIN: 530011 Grant of License regarding.

महोदय
/Sir(s),

कृपया आपके पत्र क्रमांक **OIN1673939** दिनांक **16/05/2024** का अवलोकन करें ।
Please refer to your letter No. **OIN1673939** dated **16/05/2024**

विषयान्तर्गत अधिष्ठापन में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XV में स्वीकृत, दिनांक **31/12/2024** तक वैध अनुज्ञप्ति संख्या **P/SH/AP/15/4248 (P563873)** दिनांक **17/05/2024** भेजी जा रही है ।
Licence No. **P/SH/AP/15/4248 (P563873)** dated **17/05/2024** granted in Form XV under the Petroleum Rules, 2002 and valid till **31/12/2024** for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञप्त क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	50.00 KL
वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	50.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें और अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्ती की तारीख या उससे पूर्व **Dy. Chief Controller of Explosives, Visakhapatanam** को प्रेषित करें ।
Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to **Dy. Chief Controller of Explosives, Visakhapatanam**, so as to reach his office on or before the date on which Licence expires.
यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है ।
This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

((ए.के.मीना)
(A K Meena)
उप मुख्य विस्फोटक नियंत्रक
Dy. Chief Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
सिकंदराबाद/Secunderabad

Copy forwarded to :-
1. The Commissioner of Police, VISAKHAPATNAM(Andhra Pradesh) with reference to his NOC No 2033/MC-II/2023 Dated 02/05/2024
2. The Dy. Chief Controller of Explosives, Visakhapatanam. A Copy of the licence along with approved plan is enclosed.

For Jt. Chief Controller of Explosives
Secunderabad

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट <http://peso.gov.in> देखें)
(For more information regarding status,fees and other details please visit our website <http://peso.gov.in>)

Note:-This is system generated document does not require signature.

Disclaimer : This page gives the latest action taken by this organization on your application. This page is made available for the information of concerned applicant/licensee only. All efforts have been made to secure this information. However, PESO will not be responsible for any misuse of the information by unauthorized persons including the hackers.

EHS/MoEF/2023-099

01/12/2023

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,
Nungambakkam, Chennai-600034

Dear Sir,

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

Ref: F. No. F.NO: 11/5/2022-IA.III dated 24.03.2022

Please find the attached half yearly compliance report of CRZ Clearance issued by MOEFCC for construction of seawater plant (Desalination 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**


Gnanasundaram M
Vice President & Head Mfg.


NAG/DNR
Encl : a/a

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

EHS2-Vizag-Coromandel

From: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel
Sent: 01 December 2023 17:21
To: eccompliance-ap@gov.in; rovspappcb@gmail.com; zovspappcb
Cc: EHS2-Vizag-Coromandel; Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: Half Yearly EC (CRZ Clearance) Compliance Report- regd.
Attachments: EC Compliance CEZ Desalination plant Apr-23-Sep-23.pdf

Dear Sir,

Ref: F. No. F.NO: 11/5/2022-IA.III dated 24.03.2022

Please find the attached half yearly compliance report of CRZ Clearance issued by MOEFCC for construction of seawater plant (Desalination plant) with capacity of 15 MLD.

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

Regards,
Nagarjuna P
Manager-Environment
9100443439

SAVE ENVIRONMENT SAVE LIFE


Coromandel
FUTURE POSITIVE
Coromandel International Limited
Sriharipuram, Malkapuram PO
Visakhapatnam-530 011
Andhrapradesh, India.
F: +91 891-2578400
W: www.coromandel.biz
A MURUGAPPA GROUP COMPANY

Coromandel International Limited, Visakhapatnam

Compliance status of Environment clearance

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

F.NO: 11/5/2022-IA.III DT: 24.03.2022

For the period from Apr-2023 to Sep-2023

S.NO	CONDITIONS	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 pipelines 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/2021 dt: 18.01.2022 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.	CFE has been obtained from APPCB
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 HVAC Colling 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 m3/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 handled inline to C&D waste management rule 2016. Municipal solid waste generated during construction phase will be 36.5 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/Tehsildars office for 30days.	We will comply
7	A Six 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, 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 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 MoEF&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 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.

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 diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc shall be obtained, as applicable by project 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.envfor.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 –V 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-v on 28.09.2023 for the period of April-2022 to March-2023. Find enclosed Annexure-02 Form-V acknowledgement copy for your reference.

Registered Office :

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, 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/20/0423****dt.02.05.2023****Description of Test:** Ambient Air Quality Monitoring outside the CFL**Name of the client:** Coromandel International Limited, Visakhapatnam**Location of sampling:** Near Warf**Date of Collection:** As per details Given**Analysis Report for the Month of APRIL-2023**

Date of monitoring	Time	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
26.04.2023 To 27.04.2023	09.00 to 09.00 hrs	36	78	14.0	19.4

All values are given in µg/m³**For TEAM Labs and Consultants**

Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

Laboratory Recognised by Ministry of Environment, Forests and Climate Change, GoI, 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: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of MAY-2023

Date of monitoring	Time	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
25.05.2023 To 26.05.2023	09.00 to 09.00 hrs	38	85	15.7	20.4

All values are given in µg/m³

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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

NABL Accredited Laboratory

TEST REPORT

Test Report No.TLC/V/Env/CFL/20/0623

dt.01.07.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

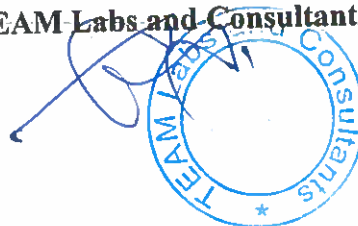
Date of Collection: As per details Given

Analysis Report for the Month of JUNE-2023

Date of monitoring	Time	PM _{2.5} Limit 60 µg/m ³	PM ₁₀ Limit 100 µg/m ³	SO ₂ Limit 80 µg/m ³	NO _x Limit 80 µg/m ³
28.06.2023 To 29.06.2023	09.00 to 09.00 hrs	40	88	16.2	22.8

All values are given in µg/m³

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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

NABL Accredited Laboratory

TEST REPORT

Test Report No.TLC/V/Env/CFL/20/0723

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: Near Warf

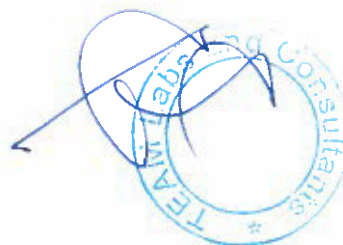
Date of Collection: As per details Given

Analysis Report for the Month of JULY-2023

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

All values are given in µg/m³

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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

Test Report No.TLC/V/Env/CFL/20/0823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Near Warf

Date of Collection: As per details Given

Analysis Report for the Month of AUGUST-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 $\mu\text{g}/\text{m}^3$
29.08.2023 To 30.08.2023	09.00 to 09.00 hrs	44	90	16.8	21.4

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, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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

NABL Accredited Laboratory

TEST REPORT

Test Report No.TLC/V/Env/CFL/20/0923

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: Near Warf

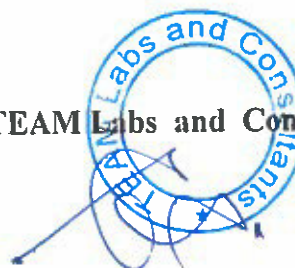
Date of Collection: As per details Given

Analysis Report for the Month of SEPTEMBER-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 $\mu\text{g}/\text{m}^3$
30.09.2023 To 01.10.2023	09.00 to 09.00 hrs	35	78	12.2	15.8

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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

NABL Accredited Laboratory

TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0423

dt.02.05.2023

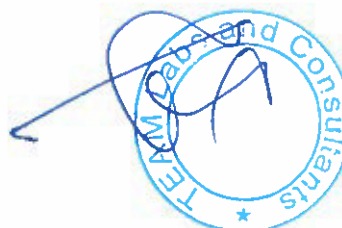
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring : For the Month of APRIL-2023

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

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	30	36	34
	Maximum	41	42	43
	98%tile	41	42	43
	Average	37	39	39
PM 10	Minimum	62	68	62
	Maximum	75	82	82
	98%tile	75	82	82
	Average	70	75	76
SO ₂	Minimum	13.9	22.0	12.8
	Maximum	21.5	26.8	15.0
	Average	18.5	24.2	13.9
	98%tile	21.5	26.8	15.0
NO _x	Minimum	17.9	22.2	16.3
	Maximum	23.3	27.2	18.5
	98%tile	23.3	27.2	18.5
	Average	21.2	24.1	17.2
NH ₃	Minimum	0.01mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	98%tile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

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

For TEAM Labs and Consultants



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TEST REPORT

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

dt.01.06.2023

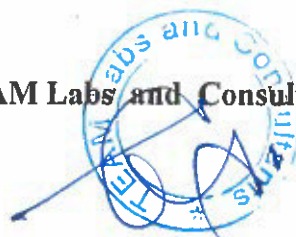
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring : For the Month ofMAY-2023

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

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	32	34	36
	Maximum	43	44	45
	98%tile	43	44	45
	Average	38	39	40
PM 10	Minimum	62	69	69
	Maximum	79	84	82
	98%tile	79	84	82
	Average	71	76	77
SO ₂	Minimum	14.7	23.1	13.8
	Maximum	23.3	28.5	15.5
	Average	19.6	25.0	14.7
	98%tile	23.3	28.5	15.5
NO _x	Minimum	18.1	22.8	15.9
	Maximum	22.9	26.7	19.6
	98%tile	22.9	26.7	19.6
	Average	21.0	24.3	18.5
NH ₃	Minimum	0.01mg/M ³	0.02mg/M ³	0.01 mg/M ³
	Maximum	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	98%tile	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

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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0623

dt.01.07.2023

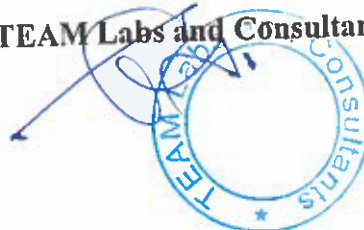
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring : For the Month of JUNE-2023

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

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	28	30	29
	Maximum	42	43	44
	98%tile	42	43	44
	Average	37	39	39
PM 10	Minimum	58	61	62
	Maximum	78	85	83
	98%tile	78	85	83
	Average	70	76	76
SO ₂	Minimum	13.4	14.7	11.0
	Maximum	24.5	28.5	16.0
	Average	20.6	25.0	14.5
	98%tile	24.5	28.5	16.0
NO _x	Minimum	16.6	16.8	14.7
	Maximum	24.3	27.2	20.2
	98%tile	24.3	27.2	20.2
	Average	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
	98%tile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

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

Test Report No.TLC/V/Env/CIL/12/0623

dt.01.07.2023

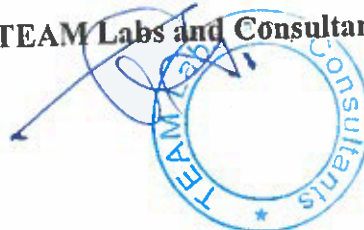
Description of Test: Ambient Air quality Monitoring inside the CFL
Name of the client: Coromandel International Limited, Visakhapatnam
Location of sampling: Stations as per details given
Period of Monitoring : For the Month of JUNE-2023

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

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	28	30	29
	Maximum	42	43	44
	98%tile	42	43	44
	Average	37	39	39
PM 10	Minimum	58	61	62
	Maximum	78	85	83
	98%tile	78	85	83
	Average	70	76	76
SO ₂	Minimum	13.4	14.7	11.0
	Maximum	24.5	28.5	16.0
	Average	20.6	25.0	14.5
	98%tile	24.5	28.5	16.0
NO _x	Minimum	16.6	16.8	14.7
	Maximum	24.3	27.2	20.2
	98%tile	24.3	27.2	20.2
	Average	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
	98%tile	0.03mg/M ³	0.04mg/M ³	0.02mg/M ³
	Average	0.02mg/M ³	0.03mg/M ³	0.02mg/M ³

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

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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0823

dt.01.09.2023

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

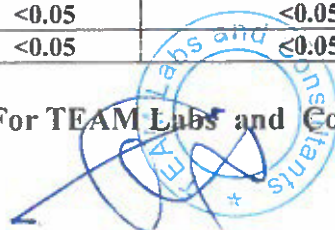
Period of Monitoring :

For the Month of AUGUST-2023

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

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate -13 (Near Bagging plant)
PM2.5	Minimum	30	34	32
	Maximum	43	45	40
	98%tile	43	45	40
	Average	37	40	36
PM 10 $\mu\text{g}/\text{M}^3$	Minimum	54	60	60
	Maximum	80	82	75
	98%tile	80	82	75
	Average	71	75	69
SO ₂ $\mu\text{g}/\text{M}^3$	Minimum	13.8	14.9	9.5
	Maximum	22.3	27.0	14.8
	Average	19.7	22.8	13.3
	98%tile	22.3	27.0	14.8
NO _x $\mu\text{g}/\text{M}^3$	Minimum	15.0	13.8	12.8
	Maximum	22.8	26.0	18.2
	98%tile	22.8	26.0	18.2
	Average	20.3	21.1	15.5
NH ₃ mg/M^3	Minimum	0.01	0.01	0.01
	Maximum	0.02	0.03	0.01
	98%tile	0.02	0.03	0.01
	Average	0.015	0.02	0.01
O ₃ $\mu\text{g}/\text{M}^3$	Minimum	10	10	10
	Maximum	18	20	12
	98%tile	18	20	12
	Average	11.8	14.5	10.25
CO mg/M^3	Minimum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	98%tile	0.1	0.2	0.2
	Average	0.1	0.12	0.11
Pb $\mu\text{g}/\text{M}^3$	<0.05	<0.05	<0.05	<0.05
C6H6 ng/M^3	<0.05	<0.05	<0.05	<0.05
B(a)P ng/M^3	<0.05	<0.05	<0.05	<0.05
As ng/M^3	<0.05	<0.05	<0.05	<0.05
Ni ng/M^3	<0.05	<0.05	<0.05	<0.05

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TEST REPORT

Test Report No.TLC/V/Env/CIL/12/0923

dt.03.10.2023

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

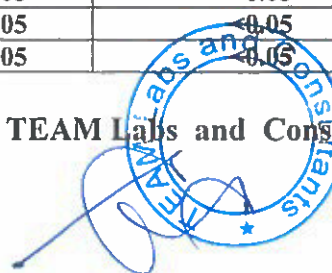
Period of Monitoring :

For the Month of SEPTEMBER-2023

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

Parameters		AAQ-1 Station at the Top of Cafeteria	AAQ-2 Station near DG sets	AAQ-3 Station at Gate-13 (Near Bagging plant)
PM2.5	Minimum	28	26	25
	Maximum	40	42	41
	98%tile	40	42	41
	Average	35	35	34
PM 10 µg/M ³	Minimum	55	50	48
	Maximum	74	79	72
	98%tile	74	79	72
	Average	67	67	64
SO ₂ µg/M ³	Minimum	11.2	10.5	8.9
	Maximum	18.0	24.3	14.9
	Average	15.4	18.1	12.5
	98%tile	18.0	24.3	14.9
NO _x µg/M ³	Minimum	13.8	19.3	11.3
	Maximum	20.4	25.0	16.8
	98%tile	20.4	25.0	16.8
	Average	17.8	22.2	14.4
NH ₃ mg/M ³	Minimum	0.01	0.01	0.01
	Maximum	0.02	0.03	0.012
	98%tile	0.02	0.03	0.012
	Average	0.015	0.017	0.011
O ₃ µg/M ³	Minimum	8	8	8
	Maximum	14	18	14
	98%tile	14	18	14
	Average	11.2	13.5	11.2
CO mg/M ³	Minimum	0.1	0.1	0.1
	Maximum	0.1	0.2	0.2
	98%tile	0.1	0.2	0.2
	Average	0.1	0.14	0.13
Pb µg/M ³	<0.05	<0.05	<0.05	<0.05
C6H6 ng/M ³	<0.05	<0.05	<0.05	<0.05
B(a)P ng/M ³	<0.05	<0.05	<0.05	<0.05
As ng/M ³	<0.05	<0.05	<0.05	<0.05
Ni ng/M ³	<0.05	<0.05	<0.05	<0.05

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TEST REPORT

Test Report No.TLC/V/Env/CIL/15/0423

dt.02.05.2023

Description of Test: Surrounding village wells-Ground water analysis

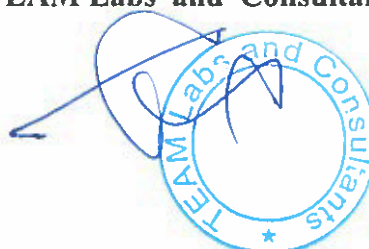
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 25.04.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica l Nitrogen mgpl
1	Kamaladevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.4	Nil	0.3	Nil
3	Yeduruvanipalem-1	7.3	Nil	0.3	Nil
4	Yeduruvanipalem-2	7.4	Nil	0.3	Nil
5	Mulagada No.1	7.3	Nil	0.3	Nil
6	Mulagada No.2	7.4	Nil	0.3	Nil
7	Mulagada No.3	7.5	Nil	0.3	Nil
8	Kodipandala dibba	7.4	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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

dt.01.06.2023

Description of Test: Surrounding village wells-Ground water analysis

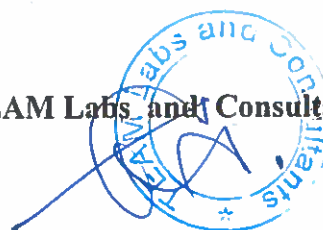
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 20.05.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.5	Nil	0.3	Nil
4	Yeduruvanipalem-2	7.4	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.3	Nil
8	Kodipandala dibba	7.4	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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TEST REPORT

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

dt.01.07.2023

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: 22.06.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.8	Nil	0.3	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.5	Nil	0.3	Nil
4	Yeduruvanipalem-2	7.4	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.6	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.3	Nil
8	Kodipandala dibba	7.4	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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TEST REPORT

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

dt.01.08.2023

Description of Test: Surrounding village wells-Ground water analysis

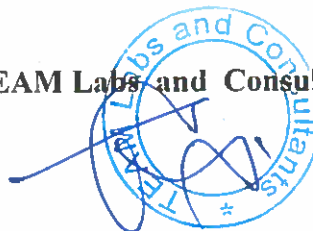
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 17.07.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.7	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.8	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.7	Nil	0.2	Nil
4	Yeduruvanipalem-2	7.8	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	0.2	Nil
8	Kodipandala dibba	7.6	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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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

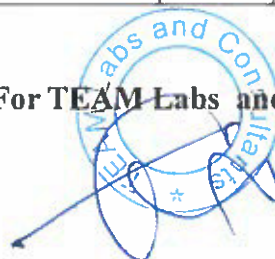
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 19.08.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonical Nitrogen mgpl
1	Kamaladevi colony- No.1	7.6	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.5	Nil	0.2	Nil
4	Yeduruvanipalem-2	7.7	Nil	0.2	Nil
5	Mulagada No.1	7.5	Nil	0.3	Nil
6	Mulagada No.2	7.5	Nil	0.2	Nil
7	Mulagada No.3	7.6	Nil	0.2	Nil
8	Kodipandala dibba	7.6	Nil	0.2	Nil
	Proocol	IS:3025 Part 11- 1983	APHA4500D	SM 4500 F- D	APHA4500C

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TEST REPORT

Test Report No.TLC/V/Env/CIL/15/0923

dt.03.10.2023

Description of Test: Surrounding village wells-Ground water analysis

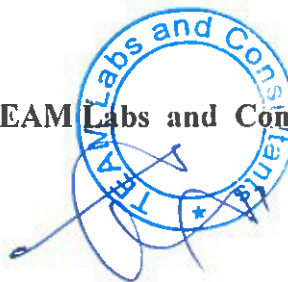
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection: 28.09.2023

NO	Location of well	pH	PO4 mgpl	F- mgpl	Ammonica I Nitrogen mgpl
1	Kamaladevi colony- No.1	7.7	Nil	0.2	Nil
2	Kamaladevi colony- No.2	7.7	Nil	0.2	Nil
3	Yeduruvanipalem-1	7.6	Nil	0.2	Nil
4	Yeduruvanipalem-2	7.8	Nil	0.2	Nil
5	Mulagada No.1	7.7	Nil	0.3	Nil
6	Mulagada No.2	7.5	Nil	0.2	Nil
7	Mulagada No.3	7.7	Nil	0.2	Nil
8	Kodipandala dibba	7.8	Nil	0.2	Nil
	Proocol	IS:3025 Part 11-1983	APHA4500D	SM 4500 F- D	APHA4500C

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CFL/16/0423

dt.02.05.2023

Description of Test: Peizo wells analysis

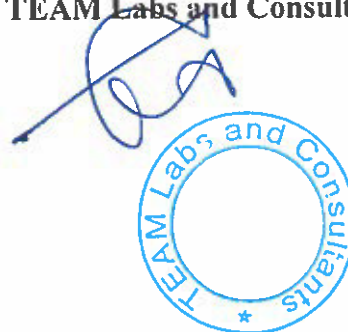
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	25.04.2023	CFL - colony	0.4
2	"	Near 4 OP Gate	0.5
3	"	Near 7 th gate	0.5
4	"	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

For TEAM Labs and Consultants



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NABL Accredited Laboratory

TEST REPORT

Test Report No.TLC/V/Env/CFL/16/0523

dt.01.06.2023

Description of Test: Peizo 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 Peizo-well	F- mg/L
1	20.05.2023	CFL - colony	0.5
2	„	Near 4 OP Gate	0.6
3	„	Near 7 th gate	0.5
4	„	CRC	0.7
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

For TEAM Labs and Consultants

A handwritten signature in blue ink is written over a circular blue stamp. The stamp contains the text "TEAM Labs and Consultants" around the perimeter and a small star at the bottom.

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NABL Accredited Laboratory**TEST REPORT**

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

dt.01.07.2023

Description of Test: Peizo 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 Peizo-well	F- mg/L
1	16.06.2023	CFL - colony	0.5
2	"	Near 4 OP Gate	0.6
3	"	Near 7 th gate	0.5
4	"	CRC	0.7
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

Test Report No.TLC/V/Env/CFL/16/0723

dt.01.08.2023

Description of Test: Peizo wells analysis

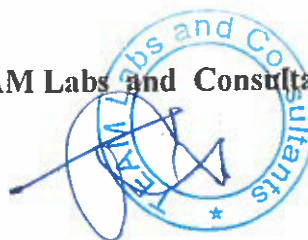
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	18.07.2023	CFL - colony	0.4
2	18.07.2023	Near4 OP Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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

dt.01.09.2023

Description of Test: Peizo wells analysis

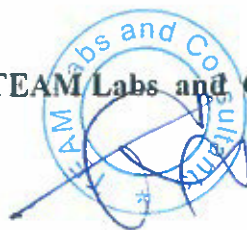
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	12.08.2023	CFL - colony	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	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

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

dt.03.10.2023

Description of Test: Peizo wells analysis

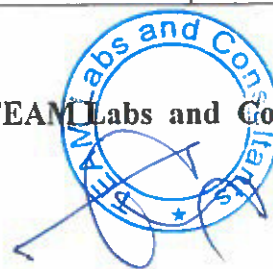
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	26.09.2023	CFL - colony	0.5
2	26.09.2023	Near4 OP Gate	0.6
3	26.09.2023	Near 7 th gate	0.7
4	26.09.2023	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

Test Report No.TLC/V/Env/CIL/11/0423

dt.02.05.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

Coromandel International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	194615	Particulate matter	22	45 mg/NM ³
			Ammonia	95	165.0 mg/NM ³
			Fluoride	0.6	4.0 mg/NM ³
2	Complex B	182573	Particulate matter	24	45 mg/NM ³
			Ammonia	105	165.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
3	Complex C	171260	Particulate matter	20	45 mg/NM ³
			Ammonia	90	165.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
4	Sulphuric acid plant-I	96029	Sulphur dioxide	0.081Kg/MT (60mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	24581	Sulphur dioxide	0.029Kg/MT (20mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	158651	Particulate matter	20	50 mg/NM ³
			Fluoride	6.8	20 mg/NM ³
7	Rock grinding unit (Old)	8593	Particulate matter	27	50 mg/NM ³
			Total Fluoride	2.1	20 mg/NM ³
8	Wharf Boiler	7257	Particulate matter	40	115 mg/NM ³
9	Phosphoric acid plant-2	26241	Particulate matter	24	50 mg/NM ³
			Total Fluoride	2.2	20 mg/NM ³
10	Rock grinding unit (New)	7623	Particulate matter	45	50 mg/NM ³
			Total Fluoride	3.8	20 mg/NM ³

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

dt.01.06.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

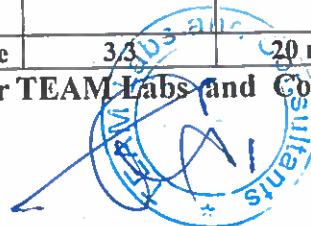
Coromandel International Limited, Visakhapatnam

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

SOURCE/ STACK EMISSION MONITORING FOR THE MONTH OFMAY-2023

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	204895	Particulate matter	20	45 mg/NM ³
			Ammonia	66	165.0 mg/NM ³
			Fluoride	0.9	4.0 mg/NM ³
2	Complex B	196420	Particulate matter	22	45 mg/NM ³
			Ammonia	85	165.0 mg/NM ³
			Fluoride	1.3	4.0 mg/NM ³
3	Complex C	196883	Particulate matter	18	45 mg/NM ³
			Ammonia	72	165.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
4	Sulphuric acid plant-1	92518	Sulphur dioxide	0.125Kg/MT (95mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	266931	Sulphur dioxide	0.048Kg/MT (30mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	155293	Particulate matter	19	50 mg/NM ³
			Fluoride	5.8	20 mg/NM ³
7	Rock grinding unit (Old)	9009	Particulate matter	25	50 mg/NM ³
			Total Fluoride	2.3	20 mg/NM ³
8	Wharf Boiler	8571	Particulate matter	35	115 mg/NM ³
9	Phosphoric acid plant-2	26867	Particulate matter	22	50 mg/NM ³
			Total Fluoride	2.1	20 mg/NM ³
10	Rock grinding unit (New)	8316	Particulate matter	39	50 mg/NM ³
			Total Fluoride	3.3	20 mg/NM ³

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

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	201864	Particulate matter	22	45 mg/NM ³
			Ammonia	65	165.0 mg/NM ³
			Fluoride	1.0	4.0 mg/NM ³
2	Complex B	192974	Particulate matter	20	45 mg/NM ³
			Ammonia	90	165.0 mg/NM ³
			Fluoride	1.8	4.0 mg/NM ³
3	Complex C	195186	Particulate matter	19	45 mg/NM ³
			Ammonia	85	165.0 mg/NM ³
			Fluoride	1.6	4.0 mg/NM ³
4	Sulphuric acid plant-1	98724	Sulphur dioxide	0.299Kg/MT (215mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	30430	Sulphur dioxide	0.164Kg/MT (90mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	159643	Particulate matter	30	50 mg/NM ³
			Fluoride	8.8	20 mg/NM ³
7	Rock grinding unit (Old)	8316	Particulate matter	30	50 mg/NM ³
			Total Fluoride	3.3	20 mg/NM ³
8	Wharf Boiler	8292	Particulate matter	24	115 mg/NM ³
9	Phosphoric acid plant-2	26506	Particulate matter	32	50 mg/NM ³
			Total Fluoride	4.8	20 mg/NM ³
10	Rock grinding unit (New)	8177	Particulate matter	35	50 mg/NM ³
			Total Fluoride	3.8	20 mg/NM ³

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TEST REPORT

Test Report No.TLC/V/Env/CFL/16/0723

dt.01.08.2023

Description of Test: Peizo wells analysis

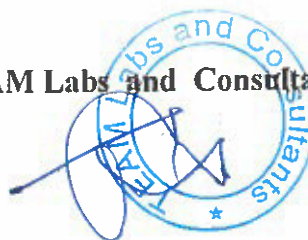
Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Stations as per details given

Date of Sample collection : As per details given

No	Date	Location of Peizo-well	F- mg/L
1	18.07.2023	CFL - colony	0.4
2	18.07.2023	Near4 OP Gate	0.5
3	18.07.2023	Near 7 th gate	0.6
4	18.07.2023	CRC	0.6
		IS10500 Permissible limit	1.5
	Protocol		SM 4500 F- D

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TEST REPORT

Test Report No.TLC/V/Env/CIL/11/0823

dt.01.09.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

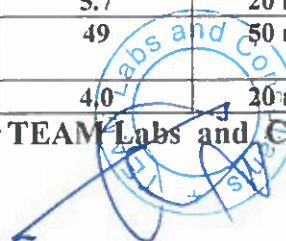
Coromandel International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	194605	Particulate matter	21	45 mg/NM ³
			Ammonia	90	165.0 mg/NM ³
			Fluoride	1.4	4.0 mg/NM ³
2	Complex B	183191	Particulate matter	20	45 mg/NM ³
			Ammonia	80	165.0 mg/NM ³
			Fluoride	2.0	4.0 mg/NM ³
3	Complex C	187851	Particulate matter	24	45 mg/NM ³
			Ammonia	65	165.0 mg/NM ³
			Fluoride	1.6	4.0 mg/NM ³
4	Sulphuric acid plant-I	100877	Sulphur dioxide	0.170Kg/MT (120mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	32449	Sulphur dioxide	0.117Kg/MT (60mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	143374	Particulate matter	40	50 mg/NM ³
			Fluoride	8.1	20 mg/NM ³
7	Rock grinding unit (Old)	8316	Particulate matter	48	50 mg/NM ³
			Total Fluoride	4.7	20 mg/NM ³
8	Wharf Boiler	8466	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)	8177	Particulate matter	49	50 mg/NM ³
			Total Fluoride	4.0	20 mg/NM ³

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TEST REPORT

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

dt.03.10.2023

Description of Test:

Source Emission Monitoring inside the CFL

Name of the client:

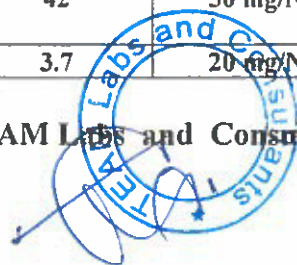
Coromandel International Limited, Visakhapatnam

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

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

S.No	Stack attached to	Flow rate NM ³ /Hr	parameters	Conc. mg/NM ³	APPCB Standard Limit
1	Complex A	196883	Particulate matter	18	45 mg/NM ³
			Ammonia	95	165.0 mg/NM ³
			Fluoride	1.2	4.0 mg/NM ³
2	Complex B	188955	Particulate matter	22	45 mg/NM ³
			Ammonia	75	165.0 mg/NM ³
			Fluoride	1.9	4.0 mg/NM ³
3	Complex C	200182	Particulate matter	20	45 mg/NM ³
			Ammonia	72	165.0 mg/NM ³
			Fluoride	1.5	4.0 mg/NM ³
4	Sulphuric acid plant-I	99750	Sulphur dioxide	0.154Kg/MT (110mg/NM ³)	1 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
5	Sulphuric acid plant-II	31884	Sulphur dioxide	0.126Kg/MT (66mg/NM ³)	0.65 Kg/MT
			Sulphur trioxide	Nil	0.35 Kg/MT
			Acid mist	Nil	20 mg/NM ³
6	Phosphoric acid plant-1	143822	Particulate matter	36	50 mg/NM ³
			Fluoride	6.9	20 mg/NM ³
7	Rock grinding unit (Old)	8455	Particulate matter	45	50 mg/NM ³
			Total Fluoride	3.9	20 mg/NM ³
8	Wharf Boiler	8728	Particulate matter	38	115 mg/NM ³
9	Phosphoric acid plant-2	28097	Particulate matter	40	50 mg/NM ³
			Total Fluoride	4.4	20 mg/NM ³
10	Rock grinding unit (New)	7900	Particulate matter	42	50 mg/NM ³
			Total Fluoride	3.7	20 mg/NM ³

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CIL/14/0423

dt.02.05.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

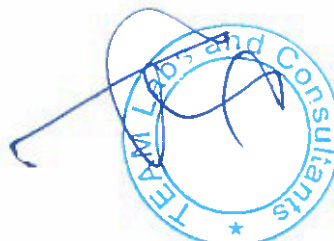
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	24	45	10.2	13.3
06.04.2023	26	50	11.3	14.7
10.04.2023	28	55	10.4	15.6
12.04.2023	30	60	9.7	14.4
17.04.2023	32	65	12.2	17.7
19.04.2023	28	59	10.8	15.3
24.04.2023	25	53	9.5	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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NABL Accredited Laboratory**TEST REPORT**

Test Report No.TLC/V/Env/CIL/13/0423

dt.02.05.2023

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 APRIL-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
03.04.2023	28	57	10.1	13.3
06.04.2023	27	56	9.8	14.3
10.04.2023	30	60	12.7	16.6
12.04.2023	32	65	13.0	16.6
17.04.2023	29	60	10.2	15.5
19.04.2023	30	64	11.2	17.2
24.04.2023	26	55	9.7	13.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 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/13/0523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	30	58	11.5	15.5
04.05.2023	28	55	10.6	14.3
09.05.2023	31	62	12.5	16.6
11.05.2023	32	66	14.7	18.2
15.05.2023	28	58	10.5	15.5
19.05.2023	30	62	9.9	16.6
20.05.2023	27	56	9.2	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, 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/CIL/14/0523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

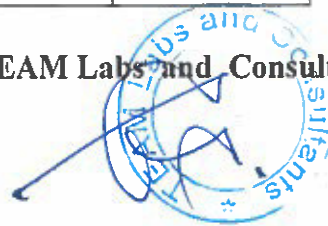
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
09.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.2	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, 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/CIL/14/0523

dt.01.06.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

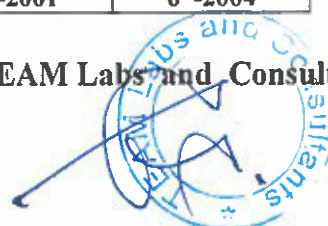
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of MAY-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.05.2023	27	52	10.5	13.5
04.05.2023	29	54	12.0	15.8
09.05.2023	28	53	10.4	15.6
11.05.2023	31	62	12.7	19.5
15.05.2023	32	66	14.0	20.2
19.05.2023	28	58	1.2	16.9
20.05.2023	25	53	9.2	14.7
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, 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/CIL/13/0623

dt.01.07.2023

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 JUNE-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
05.06.2023	31	60	11.5	13.8
07.06.2023	30	58	12.0	16.3
13.06.2023	32	62	12.5	16.6
15.06.2023	34	66	14.2	18.2
20.06.2023	25	55	10.2	15.5
23.06.2023	20	56	8.0	10.8
26.06.2023	29	60	9.7	14.3
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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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Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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

NABL Accredited Laboratory

TEST REPORT

Test Report No.TLC/V/Env/CIL/14/0723

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: Gullalapalem

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 _x Limit 80 $\mu\text{g}/\text{m}^3$
05.07.2023	22	48	9.5	12.6
08.07.2023	24	50	10.2	13.3
10.07.2023	22	45	9.4	11.8
13.07.2023	19	40	8.6	10.5
18.07.2023	16	34	7.4	9.8
22.07.2023	14	30	7.0	9.5
24.07.2023	15	38	8.0	10.8
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

For TEAM Labs and Consultants

Labs and Consultants**Registered Office :**

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Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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NABL Accredited Laboratory

TEST REPORT

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

dt.01.08.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

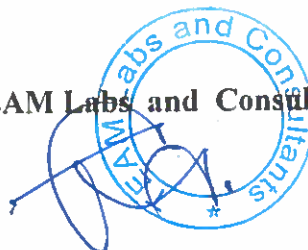
Date of Collection: As per details given

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 _x Limit 80 $\mu\text{g}/\text{m}^3$
05.07.2023	28	54	11.0	13.8
08.07.2023	26	55	10.5	14.2
10.07.2023	30	60	11.8	15.2
13.07.2023	20	42	9.7	13.5
18.07.2023	18	40	8.0	10.6
22.07.2023	16	35	7.8	10.0
24.07.2023	20	40	8.0	10.8
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, 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/CIL/14/0823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Gullalapalem

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 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.08.2023	28	58	9.8	14.2
04.08.2023	26	55	10.0	13.5
09.08.2023	30	60	9.6	12.7
11.08.2023	32	57	11.2	15.0
16.08.2023	27	52	9.5	11.6
18.08.2023	15	38	8.0	10.2
21.08.2023	24	50	9.7	12.2
Protocol	Gravi metric, CPCB annual	IS5182 PART- 23 -2006	IS5182 PART-2 - 2001	IS5182 PART-6 -2004

For TEAM Labs and Consultants

Labs and Consultants**Registered Office :**

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

Test Report No.TLC/V/Env/CIL/13/0823

dt.01.09.2023

Description of Test: Ambient Air Quality Monitoring outside the CFL

Name of the client: Coromandel International Limited, Visakhapatnam

Location of sampling: Mulagada

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 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
02.08.2023	26	54	10.8	14.0
04.08.2023	27	55	9.9	13.2
09.08.2023	32	64	11.0	16.3
11.08.2023	25	50	10.2	13.5
16.08.2023	28	56	9.7	13.2
18.08.2023	12	38	8.1	11.3
21.08.2023	26	54	9.1	10.9
Protocol	Gravi metric, CPCB anual	IS5182 PART-23 - 2006	IS5182 PART-2 - 2001	IS5182 PART-6 - 2004

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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Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, 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/CIL/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

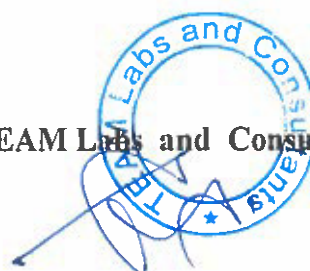
Date of Collection: As per details given

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	8.0	10.8
11.09.2023	22	50	8.3	11.2
13.09.2023	15	38	7.8	10.2
19.09.2023	20	44	8.6	12.2
21.09.2023	25	48	9.5	13.8
25.09.2023	26	54	9.7	14.2
Protocol	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 6 -2004

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

For TEAM Labs and Consultants



Labs and Consultants**Registered Office :**

B-115, 116, 117 & 509, Annapoorna Block, Aditya Enclave, Ameerpet, Hyderabad - 530038.

Ph. : (O) 040-23748555 / 23748616, Fax : 040-23748666, Email : teamlabs@gmail.com

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

NABL Accredited Laboratory

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: Coromandel International Limited, Visakhapatnam

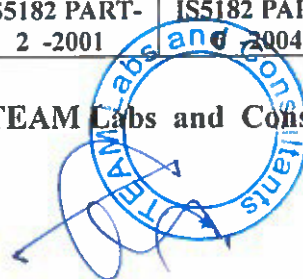
Location of sampling: Gullalapalem

Date of Collection: As per details given

Analysis Report for the Month of SEPTEMBER-2023

Date of monitoring	PM2.5 Limit 60 $\mu\text{g}/\text{m}^3$	PM10 Limit 100 $\mu\text{g}/\text{m}^3$	SO ₂ Limit 80 $\mu\text{g}/\text{m}^3$	NO _x Limit 80 $\mu\text{g}/\text{m}^3$
04.09.2023	25	52	9.5	13.3
06.09.2023	22	46	8.8	12.4
11.09.2023	20	42	7.8	10.6
13.09.2023	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	Gravi metric, CPCB anual	IS5182 PART- 23 -2006	IS5182 PART- 2 -2001	IS5182 PART- 2004

For TEAM Labs and Consultants



Coromandel International Limited

Post Box No. 1116, Sriharipuram, Malkapuram Post
Visakhapatnam - 530 011, Andhra Pradesh, India
Tel : 91-891-2578400 to 2578416
DID : 91-891-2578417/18/19
Fax : 91-891-2577665/2516164
Website : www.coromandel.biz
CIN : L24120AP1961PLC000892

Date: 28.09.2023

EHS/APPCB/2023-78

To
The Member Secretary,
A.P. Pollution Control Board,
D.No.33-26-14D/2, Near Sunrise Hospital,
Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet,
Vijayawada-520 010

sairakeshni@gmail.com, Nasik

RH951559924IN IVR:827875155992 भारतीय डाक
RL MALKAPURAM S.O <530011>
Counter No: 1.29/09/2023.11:29
To: FORM V THE ME, APPCB VIJAYAWADA
PIN: 520010, Venkateswarapuram S.O
From: EHS HOD, COROMANDEL INTER
Wt: 246gms
Amt: 82.00 (Cash)
<Track on www.indiapost.gov.in>

Sub: 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/VSP/65/CFO/HO/1967 - 30/09/2022
2. Consent Order No: 7055/APPCB/ZO-VSP/CFO/VSP/2021 - 01/11/2021
3. Consent Order No: APPCB/VSP/VSP/65/CFO/HO/2020 - 23/12/2020

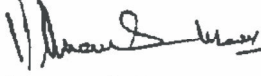
Dear Sir,

We are enclosing herewith the Environment 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 annexures.

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

Thanking you

Yours faithfully
For Coromandel International Limited


M. Gnanasundaram
VP & Head - Manufacturing


Encl: As above

Cc: 1. The Joint Chief Environmental Engineer, Zonal Office, APPCB, Visakhapatnam-18
2. The Environmental Engineer, Regional Office, APPCB, Visakhapatnam-18

EHS2-Vizag-Coromandel

From: Nagarjuna-P-Mgr-EHS-Vizag-Coromandel
Sent: 29 September 2023 13:02
To: rovspappcb@gmail.com; rovsp-ee1@appcb.gov.in; zovspappcb
Cc: EHS2-Vizag-Coromandel; Subhradip Mondal-Mgr-Environment-Vizag-Coromandel; Nagaraju D-AGM-EHS-Vizag-Coromandel; Vinod Kumar Mishra-Sr.GM-EHS-Vizag-Coromandel
Subject: Submission of CIL-Form-V (Environmental Statement) for the period of 2022-2023
Attachments: CIL-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,
Nagarjuna P
Manager-Environment
9100443439

SAVE ENVIRONMENT SAVE LIFE


Coromandel
FUTURE POSITIVE
Coromandel International Limited
Sriharipuram, Malkapuram PO
Visakhapatnam-530 011
Andhrapradesh, India.
F: +91 891-2578400
W: www.coromandel.biz
A MURUGAPPA GROUP COMPANY

Coromandel International Limited
Post Box No. 1116, Sriharipuram, Malkapuram Post
Visakhapatnam - 530 011, Andhra Pradesh, India
Tel : 91-891-2578400
DID : 91-891-2893+Extn No
Website : www.coromandel.biz
CIN : L24120AP1961PLC000892
GSTIN : 37AAACC7852K1ZC

Date: 27.09.2024

EHS/APPCB/2024-099

To
The Member Secretary,
A.P. Pollution Control Board,
D.No.33-26-14D/2, Near Sunrise Hospital,
Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet,
Vijayawada-520 010

RN541800070IN IVR:8278541800070
RL MALKAPURAM S.O <530011>
Counter No:1.27/09/2024.14:16
To:THE MEMBER SE,APPCB VIJAYAWADA
PIN:520010, Venkateswarapuram S.O
From:EHS HOD COR.FORM 5 WHARF
Wt:250gms,REG=17.0
Amt:96.76,Tax:14.76,Amt.Paid:97.00(Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks. Stay Safe>

Sub: Submission of Environmental Statement in Form-V for the financial year 2023-24 as per the
Environmental Protection Act -1986 reg.

Ref: 1. Consent Order No: APPCB/VSP/VSP/65/HO/CFO/2020 – 23/12/2020

Dear Sir,

We are enclosing herewith the Environment Statement for the financial year 2023-24 ending with
31st March 2024 in prescribed Form-V with respect to Coromandel International Ltd. along with
relevant annexures.

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

Thanking you

Yours faithfully
For Coromandel International Limited


M. Gnanasundaram
VP & Head - Manufacturing


NAG

Encl: As above

Cc: 1. The Joint Chief Environmental Engineer, Zonal Office, APPCB, Visakhapatnam-18
2. The Environmental Engineer, Regional Office, APPCB, Visakhapatnam-18



Date:27.09.2024

EHS/APPCB/2024-099

To
The Member Secretary,
A.P. Pollution Control Board,
D.No.33-26-14D/2, Near Sunrise Hospital,
Pushpa Hotel Centre,
Chalamalavari Street, Kasturibaipet,
Vijayawada-520 010

Sub: Submission of Environmental Statement in Form-V for the financial year 2023-24 as per the
Environmental Protection Act -1986 reg.

Ref: 1. Consent Order No: APPCB/VSP/VSP/65/HO/CFO/2020 – 23/12/2020

Dear Sir,

We are enclosing herewith the Environment Statement for the financial year 2023-24 ending with
31st March 2024 in prescribed Form-V with respect to Coromandel International Ltd. along with
relevant annexures.

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

Thanking you

Yours faithfully
For Coromandel International Limited



M. Gnanasundaram
VP & Head - Manufacturing


NAG

Encl: As above

Cc: 1. The Joint Chief Environmental Engineer, Zonal Office, APPCB, Visakhapatnam-18
2. The Environmental Engineer, Regional Office, APPCB, Visakhapatnam-18

FORM – V
(See rule 14)

**Environmental Statement (Audit Report) for the financial year ending
31st March 2024**

PART – A

I)	Name and address of the owner/occupier of the industry, operation or process.	Coromandel International Limited (Sulphuric acid storage & handling facilities at Wharf Area), Post Box No. 1116, Sriharipuram, Malkapuram Post, Visakhapatnam-530 011 Occupier: Mr. Sankarasubramanian (Managing Director)
II	Production Capacity	1.Storage and handling of Sulphuric Acid – 02 X 12500 MT – Total : 25000 MT 2.Unloading facilities from ship at Wharf area 3.Transfer pipelines from at Wharf area to the plant
III	Year of Establishment	1967
II)	Date of the last Environmental Audit Report submitted.	28/09/2023

PART – B

Water and Raw Material Consumption

I)	Water consumption m³/d (average break-up) year 2023-24		
	WATER : 02 KLD		
	Water consumption per unit of products M ³ /MT		
	Name of products	During the previous financial year	During the current financial year
		NA	NA
II	Raw material consumption		
	Name of raw materials	Name of products	Consumption of raw material per unit of output (MT/MT)
			During the current financial year 2022-23 During the current financial year 2023-24
Ref: Annexure – 1			

PART – C

**Pollution generated
(Parameters as specified in the consent issued)**

I)	Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants discharges (mass/Volume)	Percentages of variation from prescribed standards with reasons
	(a) Water (b) Air	Ref: Annexure – 2		

PART – D
Hazardous Wastes
(As specified under hazardous wastes Management and Handling Rules, 1989 and amendment 2016)

Stream	Name of the Hazardous waste	Total Quantity	
		During the previous financial year 2022-23	During the current financial year 2023-24
Nil			

PART –E
Solid Wastes

		Total Quantity (MT)	
		During the previous financial year 2022-23	During the current financial year 2023-24
a)	From process	Not Applicable	
b)	Process pollution control facilities		
c)	Quantity recycled or re-utilized		
	i) sold		
	ii) Disposed		

PART – F

Please specify the characteristics (in terms of concentration and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes

We are generating a very minimal quantity of used oil and tank bottom sludge. Whatever we do generate is sent to the main plant. The Hazardous Waste Annual Returns Form - IV has been submitted, including information from the main plant.

Ref: Annexure – 3

PART – G

Impact of the pollution control measures on conservation of natural resources and consequently on the cost of production.

This plant is used solely for raw material storage, there are no operations conducted here.

PART – H

Additional investment proposal for environmental protection including abatement of pollution:

Note : It is considered part of the main plant investments.

Environment Improvement Measures Refer Annexure – 04.

PART – I

Any other particulars in respect of environment protection and abatement of pollution:

A report covering various efforts made by Coromandel International Limited for control of environmental pollution along with details of processes adopted in various units is given in savings made by some other activities and savings through Energy Conservation.

Refer Annexure - 05 & 06

**Your faithfully,
For Coromandel International Limited,**



**M. Gnanasundaram
VP & Head – Manufacturing**

Annexure-1

Raw materials Consumption 2023-2024			
Name of the Raw material: Rock phosphate			
S. No	Details of Description	Unit of measurement	Qty.
1	Opening Stock on 01 st April 2023	MT	0
2	Received Qty.	MT	262019
3	Consumption Qty.	MT	262019
4	Closing stock on 31 st March 2024	MT	0

Raw materials Consumption 2023-2024			
Name of the Raw material: Sulphuric Acid			
S. No	Details of Description	Unit of measurement	Qty.
1	Opening Stock on 01 st April 2023	MT	21057.985
2	Received Qty.	MT	433679.8
3	Consumption Qty.	MT	431165.8
4	Closing stock on 31 st March 2024	MT	23571.971

Raw materials Consumption 2023-2024			
Name of the Raw material: Molten sulphur			
S. No	Details of Description	Unit of measurement	Qty.
1	Opening Stock on 01 st April 2023	MT	13446.697
2	Received Qty.	MT	83808
3	Consumption Qty.	MT	94910.02
4	Closing stock on 31 st March 2024	MT	2344.677

Raw materials Consumption 2023-2024			
Name of the Raw material: LSHS			
S. No	Details of Description	Unit of measurement	Qty.
1	Opening Stock on 01 st April 2023	MT	20.07
2	Received Qty.	MT	576.718
3	Consumption Qty.	MT	585.328
4	Closing stock on 31 st March 2024	MT	11.46

Raw materials Consumption 2023-2024			
Name of the Raw material: LDO			
S. No	Details of Description	Unit of measurement	Qty.
1	Opening Stock on 01 st April 2023	Litres	9268
2	Received Qty.	Litres	0
3	Consumption Qty.	Litres	6626
4	Closing stock on 31 st March 2024	Litres	2642

Annexure - 2

Environment Quality Report					
I)	Pollutants	Quantity of pollutants discharged (mass/day)	Concentrations of pollutants discharges (mass/Volume)	APPCB limit mg / lt.	Percentages of variation from prescribed standards with reasons
	Air				
		Emissions, TPA	Emissions, mg/Nm ³	APPCB limit mg/Nm ³	No Variation from Standards
1	Wharf Boiler				
	SPM	--	33.25	115	

AAQMS Monitoring at Wharf

PCB Limit	AAQ-1 station at the Top of WHARF											
	Limit 60	Limit 100	Limit 80	Limit 80	Limit 0.4	Limit	Limit	Limit	Limit	Limit	Limit	Limit
	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³
Parameters	PM 2.5	PM 10	SO2	NOx	NH3	O3	CO	Pb	C6H6	B(a)P	As	Ni
2023 – 24 Average	31.33	70.04	14.95	14.67	0.03	21.33	0.28	<0.5	<0.5	<0.5	<0.5	<0.5

EHS/APPCB/2024-040

Date: 06.05.2024

To
The Environmental Engineer,
A.P. Pollution Control Board,
D.No. 33-26-14 D/2,
Near Sunrise Hospital,
Pushpa Hotel Centre,
Chalamalavari Street,
Kasturibaipet, Vijayawada – 520010

Dear Sir,

RH461132235IH IVR:8278461132235
RL MALKAPURAM S.O <530011>
Counter No:1.07/05/2024.10:33
To:THE ENVIRONME.APPCB KASTURIBAI
PIN:520010, Venkateswarapuram S.O
From:COROMANDEL .EHS HOD MALKAPUR
Wt:240gms.REG=17.0
Amt:31.86(Cash)Tax:4.86
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks. Stay Safe>

**Sub: Coromandel International Limited- Visakhapatnam-Submission of Hazardous
Waste Annual Returns in Form-4 – FY2023-2024 - Regarding.**

**Ref: Hazardous and Other Wastes (Management and Transboundary Movement) Rules,
2016**

We are herewith furnishing annual returns (for the period April'23 to March'24) in Form-4 as per "Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016" and amendment thereof under E (P) Act, 1986.

Kindly acknowledge the receipt of same.

Thanking you,

Yours Truly,

For COROMANDEL INTERNATIONAL LIMITED



**Gnanasundaram M
Vice President & Head Manufacturing.**



Encl. As above

CC to: i) The Environmental Engineer, Regional Office, APPCB, Visakhapatnam.

EHS/APPCB/2024-040

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For COROMANDEL INTERNATIONAL LIMITED



Gnanasundaram M
Vice President & Head Manufacturing.


NAG/DNR

Encl. As above

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FORM-4																												
[See rules 6(5), 13(8), 16(6) and 20(2)]																												
FORM FOR FILING ANNUAL RETURNS																												
(To be submitted to State Pollution Control Board by 30th day of June of every year for the preceding period April to March)																												
1	Name and address of facility:	Coromandel International Limited, Sriharipuram, Malkapuram (PO), Visakhapatnam-530011, Andhra Pradesh, India. Phone: 0891-2578400																										
2	Authorisation No. and Date of issue:	Authorization no. APPCB/VSP/65/CFO/HO/1967 Issued date: 30.09.2022 Valid Upto 31.08.2027																										
3	Name of the authorised person and full address with telephone, fax number and e-mail:	M. Gnanasundaram VP-Head Manufacturing Sriharipuram, Malkapuram (PO), Visakhapatnam-530011, Andhra Pradesh, India. Phone: 0891-2578400																										
4	Production during the year (product wise), wherever applicable	: Complex plant : Sulphuric acid : Phosphoric acid	1165048 861859 370617	MT/Annum																								
Part A. To be filled by hazardous waste generators																												
1	Total quantity of waste generated category wise		<table border="1"> <thead> <tr> <th>Name of the Hazardous waste</th> <th>Quantity generated</th> </tr> </thead> <tbody> <tr> <td>1) Acid residues (Tank bottom sludge)</td> <td>25.000 MT</td> </tr> <tr> <td>2) Sulphur muck (Sulphur sludge)</td> <td>940.000 MT</td> </tr> <tr> <td>3) Spent Catalyst</td> <td>48.820 MT</td> </tr> <tr> <td>4) Used lubricating oil/drained oil</td> <td>13.620 KL</td> </tr> <tr> <td>5) Detoxified Containers</td> <td>2438.000 No's</td> </tr> <tr> <td>6) LSHS Sludge</td> <td>4.070 MT</td> </tr> <tr> <td>7) Scrubbing sludge</td> <td>395.000 MT</td> </tr> <tr> <td>8) ETP sludge</td> <td>490.000 MT</td> </tr> <tr> <td>9) Off specified ,expired chemicals & lab chemicals etc.</td> <td>0.000 MT</td> </tr> <tr> <td>10) Glass wool</td> <td>0.000 MT</td> </tr> <tr> <td>11) Insulation Puf</td> <td>0.000 MT</td> </tr> </tbody> </table>		Name of the Hazardous waste	Quantity generated	1) Acid residues (Tank bottom sludge)	25.000 MT	2) Sulphur muck (Sulphur sludge)	940.000 MT	3) Spent Catalyst	48.820 MT	4) Used lubricating oil/drained oil	13.620 KL	5) Detoxified Containers	2438.000 No's	6) LSHS Sludge	4.070 MT	7) Scrubbing sludge	395.000 MT	8) ETP sludge	490.000 MT	9) Off specified ,expired chemicals & lab chemicals etc.	0.000 MT	10) Glass wool	0.000 MT	11) Insulation Puf	0.000 MT
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2	Quantity dispatched	(i) to disposal facility (Ramky) (ii) to recycler or co-processors or pre-processor (iii) Others	<table border="1"> <thead> <tr> <th>Name of the Hazardous waste</th> <th>Quantity dispatched</th> </tr> </thead> <tbody> <tr> <td>1) Spent Catalyst</td> <td>33.820 MT</td> </tr> <tr> <td>2) LSHS Sludge</td> <td>6.770 MT</td> </tr> <tr> <td>3) Off specified ,expired chemicals & lab chemicals etc.</td> <td>0 MT</td> </tr> <tr> <td>4) Glass wool</td> <td>0 MT</td> </tr> <tr> <td>5) Insulation Puf</td> <td>0 MT</td> </tr> <tr> <td>1) Used lubricating oil/drained oil</td> <td>14.020 KL</td> </tr> <tr> <td>2) Detoxified Containers and container liners</td> <td>2348 No's</td> </tr> <tr> <td>---</td> <td>---</td> </tr> </tbody> </table>		Name of the Hazardous waste	Quantity dispatched	1) Spent Catalyst	33.820 MT	2) LSHS Sludge	6.770 MT	3) Off specified ,expired chemicals & lab chemicals etc.	0 MT	4) Glass wool	0 MT	5) Insulation Puf	0 MT	1) Used lubricating oil/drained oil	14.020 KL	2) Detoxified Containers and container liners	2348 No's	---	---						
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3	Quantity utilised in-house, if any -	<table border="1"> <thead> <tr> <th>Name of the Hazardous waste</th> <th>Quantity utilised</th> </tr> </thead> <tbody> <tr> <td>1) Acid residues (Tank bottom sludge)</td> <td>28 MT</td> </tr> <tr> <td>2) Sulphur muck (Sulphur sludge)</td> <td>995 MT</td> </tr> <tr> <td>3) Scrubbing sludge</td> <td>410 MT</td> </tr> <tr> <td>3) ETP sludge</td> <td>560 MT</td> </tr> </tbody> </table>	Name of the Hazardous waste	Quantity utilised	1) Acid residues (Tank bottom sludge)	28 MT	2) Sulphur muck (Sulphur sludge)	995 MT	3) Scrubbing sludge	410 MT	3) ETP sludge	560 MT															
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Part B. To be filled by Treatment, storage and disposal facility operators																											
1	Total quantity received -	:																									
2	Quantity in stock at the	:																									
3	Quantity treated -	:																									
4	Quantity disposed in landfills as such and after treatment -	:																									
5	Quantity incinerated (if applicable) -	:																									
6	Quantity processed other than specified above -	:																									
7	Quantity in storage at the end of the year -	:																									
Part C. To be filled by recyclers or co-processors or other users																											
1	Quantity of waste received during the year - (i) domestic sources	:																									
2	Quantity in stock at the beginning of the year -	:																									
3	Quantity recycled or co-processed or used -	:																									
4	Quantity of products dispatched (wherever applicable) -	:																									
5	Quantity of waste generated -	:																									
6	Quantity of waste disposed -	:																									
7	Quantity re-exported (wherever applicable)-	:																									
8	Quantity in storage at the end of the year -	:																									
Date : 06.05.2024		Signature of the Occupler or Operator of the disposal facility																									
Place: Visakhapatnam.																											

COROMANDEL VIZAG

Sustainability Measures

SUB: Environmental – Energy Conservation

Name of the Project: 1650 MTPD Sulphuric Acid plant III

Problems faced before implementation of initiative:

- Higher energy consumption for 45 MT/Hr. steam Generation from Steaming coal

Brief Description: 1650 MTPD Sulphuric Acid Plant III installed, generating 87 MT / Hr., high pressure waste steam at 69kgf/cm²g 485 °C. High pressure & temperature steam turbine results in lower Specific Steam Consumption of 4.0 MT / MWH. Old Condensing turbine was medium pressure 31kgf/cm²g 315°C with 5.8 MT/MW Specific Steam Consumption. Innovation enabled higher power generation

Technology: Monsanto Enviro Chem Systems USA, Engineering – Thyssenkrupp Industrial Solutions, India.

Cost – Rs 4300 million Annual Savings 72765000 kWh Annual Savings Rs 466 million
Payback 111 month Completed Date Aug 2023

Challenges faced during the project:

1. Technical Know How for modern Energy Efficient Sulphuric Acid Plant
2. Availability of expertise for taking up modern technologies

Prevailing practice in the industry: Maximise deployment of Carbon free Energy.



COROMANDEL VIZAG

Sustainability Measures

SUB: Environmental – Energy Conservation

Name of the Project: Installation of 11KV Automatic Power Factor controlling system

Problems faced before implementation of initiative:

- Grid power factor is at 0.970 lag and power factor to be maintained at unity for ideal conditions.
- Existing installed HT capacitor bank are not sufficient to meet the required capacitive load of the plant which is required to maintain unity power factor. This is due to the increase in plant loads subsequently.

Brief Description: Installation of Automatic Power Factor controlling panels comprising

1. 11 KV Limiting Reactors 2.12 MVAR – 3 no's
2. 100 Kvar, 440V, 3Ph, 50Hz, CLMD 83 Capacitor – 30 no's
3. 11kV, 2500kVAr APFC with 6% inrush current – 1 no.
4. 11kV, 2000kVAr APFC with 6% inrush current – 1 no.

New generation technology considered as an alternative to conventional technology / method to limit the short circuit levels at existing substations

Cost – Rs 29.5 million Annual Savings 1703451 kWh Annual Savings Rs 11 million
Payback 32 month Completed Date Jan 2024

Benefits: 1) After installing additional capacitor bank panels, power factor of around 0.995 lag at grid side is being achieved from Feb-24 which will reduce the losses and improve the power factor which will in turn give us power saving.

Challenges faced during the project:

- 1) Subsequent increase in Power capacity addition continuously.

Prevailing practice in the industry: Install capacitor banks whenever power load increases



COROMANDEL VIZAG

Sustainability Measures

SUB: Environmental – Energy Conservation

Name of the Project: Replacement of age-old Air conditioner units with modern 3 Star Units

Problems faced before implementation of initiative:

- Higher Energy Consumption

Brief Description: 41 no's age-old Air conditioner units replaced by modern 3 Star Units.

Cost – Rs 2.384 million Annual Savings 48441 kWh Annual Savings Rs 0.1 million
Payback 92 month Completed Date Jan 2024

Benefits:

- 1) Improved Air Conditioning
- 2) Lower Energy Consumption

Challenges faced during the project: None.

Prevailing practice in the industry: Maximise deployment of modern 3 Star AC Units.



COROMANDEL VIZAG

Sustainability Measures – Kaizens – Zero cost Measures

SUB: Environmental – Energy Conservation

Name of the Project: Installation of AC controls, closure to respective AC Units

Problems faced before implementation of initiative:

- Higher Energy Consumption
- II AC unit running even when not required, as its temperature control is not close by



Brief Description: Installed AC temperature control sensors closure to respective AC Units,

Cost – Rs NIL million Annual Savings 21406 kWh Annual Savings Rs 0.14 million
Payback 0 month Completed Date Nov 2023

Benefits:

- 1) Improved Air Conditioning
- 2) Lower Energy Consumption

Challenges faced during the project: None.

Prevailing practice in the industry: Installation of AC controls closure to place of use is a best practice.

COROMANDEL VIZAG

SUB: Environmental – Sea Water Solution to Raw Water needs.

Name of the Project: 6000 M³/Day Sea Water Reverse Osmosis Desalination Plant

Problems faced before implementation of initiative:

1. Limited availability of Raw water for plant expansion
2. Regular Line leaks along 10 Kilometer long TSR Water Pipeline.

Brief Description: Sea Water undergoes rapid floatation pretreatment, in Direct Air Floatation system for removal of Algae. Filtration of sea water is carried out by reverse osmosis, which involves forcing water at high pressure through a membrane that retains up to 99% of impurities. Desalinated Water is utilised in process plants as raw water, part of the desalinated water also undergoes post-treatment in mixed bed Ion Exchanger where it is demineralized.

Cost of Project: Coromandel: INR 30 Cr, INR Veolia – 40 Cr, Total INR 70 Cr

Benefits:

1. Support Plant expansion.
2. High purity demineralised water

Challenges faced during the project:

- Higher energy consumption for desalination by Reverse Osmosis 4.8 kWh/M3 Water

Prevailing practice in the industry:

Enabling and securing access to water resources at a permeate salinity / Total dissolved solids level of 200 ppm, by exploiting an inexhaustible natural resource with high salinity of 37000 ppm.



COROMANDEL VIZAG

SUB: Environmental – Nature Conservation - Greening within Fence

Name of the Project: **Greening within Fence - Miyawaki Plantation**

Problems faced before implementation of initiative:

1. Degraded land that has been used for construction and nonagricultural purposes.

Brief Description: Miyawaki Plantation involves plantation of trees, native to the area, with species that complement each other. As saplings receive sunlight from the top and grow upward, rather than sideways. It helps prevent growth of weeds, by avoiding sunlight reaching the soil.

S.no.	Area Of plantation	No. of plants	Year	Cost
1	Phase - 1	3000	2021-22	INR 7,61,607
2	Phase - II	10000	2021-22	INR 47,57,706
3	Phase - III	10000	2022-23	INR 50,00,000
4	Phase - IV	25000	2023-24	INR 1,24,00,000
5	Phase - V	3500	2023-24	INR 12,26,592

Greenery in more than 120 acres out of 320 acres industrial site (37.5%), adherence to better than regulatory norm.

Cost of the project: Rs. 136 Lakh Year 2023-24, No of Plants – 28500 no's

Benefits:

1. Creating Carbon sink in the area.
2. Control of fugitive emissions due to road traffic

Challenges faced during the project:

- Challenging sediment conditions, acidic soils necessitating laying of proper soil.



Prevailing practice in the industry:

Driving Compliance to APPCB order that 33% of industrial site around a factory is to be green.

COROMANDEL VIZAG

SUB: Environmental – Abating Noise

Name of the Project: **Modern Steam Vent Silencers**

Problems faced before implementation of initiative:

1. High noise during venting of high-pressure steam.

Brief Description: Performance of Vent Silencers is achieved by a 2-stage noise reduction approach.

Stage 1 –The inlet diffuser is effective in attenuating frequencies of sound and distributing the flow evenly to the 2nd stage.

Stage 2 – Sound reduction comprises of absorptive elements positioned within the silencer case thus absorbing acoustic energy out of the steam prior to exiting the atmosphere.

Benefits:

1. Noise-less steam venting.

Challenges faced during the project:

- Design Known how of modern steam vent silencers.

Prevailing practice in the industry:

Enabling Compliance to APPCB order that noise levels in the industry should be within 75 db during daytime and 70 db. during nightttime.



COROMANDEL VIZAG

SUB: Environmental – Dust Control during Solids Material Handling

Name of the Project: Steam, Air & Water Curtain for Dust Control during Solid Sulphur Handling

Problems faced before implementation of initiative:

1. Higher dust emissions during Solid Sulphur handling as the following existing measures have limited control of dust emissions.
 - a. Rubber & Canvas apron serves to contain dust, however, is limited due to access through several openings in the apron.
 - b. Bag filter creates a negative atmosphere and removes airborne dust, is limited due to dilution air entry through several openings and huge power consumption.

Brief Description: Low pressure smothering steam, Fine mist of Water and Air are released to create positive pressure around the emission points and act as a curtain, at various dust emission points during Solids Sulphur handling in Sulphuric Acid Plant – III.

Benefits:

1. Environment Compliance – Control of dust under positive pressure.
2. Better work place ambience

Challenges faced during the project:

- Fine mist of water and steam smothering increases acidity in solid sulphur
- Excessive load on Bag filters.

Prevailing practice in the industry:

Ensuring Compliance to APPCB order on fugitive Dust emissions < 50 mg/NM3



COROMANDEL VIZAG

SUB: Environmental – Effluent Control Better than regulatory norms

Name of the Project: Fresh Water Surface Condenser for Turbo Generator III

Problems faced before implementation of initiative:

1. Sea Water has worst Corrosion characteristics, hence special Cu: Ni 70:30 tubes used
2. Higher tube side Scaling due to sea water contaminants, requiring automatic cleaning using circulating rubber sponge balls.
3. Use of sodium hypochlorite, or chlorine, to ensure there is no marine growth on the pipes or the tubes. However, circulating water returning to the sea is affected.

Brief Description: Fresh Water Surface Condenser for Turbo Generator III, which rejects the heat from condensing steam in surface condenser to air in a cooling tower using fresh water as circulating heat transfer medium.

Benefits:

1. Better Environment –
 - a. Capacity of air environment to absorb heat is higher than heat rejection to water.
 - b. Heat of water needs to be released to air through water evaporation, hence direct discharge of heat to air is better option.
 - c. Marine environment is least effected.

Challenges faced during the project:

- Higher liberation of heat in factory premises
- Large quantity of fresh water consumed.

Prevailing practice in the industry:

Fresh Water Surface Condenser is a better option for condensing type-high pressure steam turbine.



COROMANDEL VIZAG

SUB: Environmental – Effluent Control Better than regulatory norms

Name of the Project: **Zero Liquid Discharge Facility**

Problems faced before implementation of initiative:

1. Loss of containment
2. Poor Control of final effluent quality

Brief Description: Installation of Zero Liquid Discharge Systems

Technology used: The major sources of effluent are overflows and spillage of process drains of Sulphuric acid plant, cooling tower blow down and leachate water from Gypsum Pond. Installed water recovery pits along with agitators for water conservation by recovery and reuse.

Benefits:

1. Compliance to APPCB order.
2. Control on liquid effluents.

Challenges faced during the project:

Design and Installation of Gradient Floor for recovery, separate process and storm water drains and recovery pits.

Prevailing practice in the industry: Zero liquid discharge by installing process and storm water drains and recovery pits is well established. All new plants to be designed for ZLD



COROMANDEL VIZAG

SUB: Environmental – Effluent Control Better than regulatory norms

Name of the Project: **Cooling Tower Water Conductivity meter for blowdown control**

Problems faced before implementation of initiative:

1. Lack of online control for blowdown
2. Excessive Water consumption

Brief Description: Installation of Conductivity meter on cooling tower water system, for controlling Blowdown

Benefits:

1. Control on liquid effluents.

Challenges faced during the project:

Letting management realize on the need to have online Conductivity meter for cooling tower blowdown control

Prevailing practice in the industry: Boiler Blowdown control by installing conductivity meter is good water conservation practice.



COROMANDEL VIZAG

SUB: Environmental – Dust Control Better than regulatory norms

Name of the Project: **Dust control while preparing lime solution**

Problems faced before implementation of initiative:

1. Dust generation during mixing of lime in Lime Slurry Preparation Tank

Brief Description: Installation of Air Operated Diaphragm Pump

Benefits:

1. Control on Dust generation.

Challenges faced during the project:

Know how on operation of Air Operated Diaphragm Pump and its applications.

Prevailing practice in the industry: Installation of Air Operated Diaphragm Pump is a best practice in Lime Addition to Lime Slurry Preparation Tank/



Lime Dust generation while dumping into Lime slurry Preparation Tank



Air Operated Diaphragm Pump



Lime Powder flow through hose without dust generation

COROMANDEL VIZAG

SUB: Environmental – Emission & Effluent Control measures

Name of the Project: **Installation of Continuous Emission Monitoring system**

Compliance to CPCB Guidelines: Use of CEMS to continuously collect, record & report emission data of SO₂ for monitoring compliance to Sulphuric Acid Plant emission standards.

Problems faced before implementation of initiative:

1. Heights of stacks, Corrosive environment & Stack structure conditions restrict regular maintenance work at height.

Brief Description: Installed Online stack emissions monitoring system The standard CEM system consists of a sample probe, filter, sample line (umbilical), gas conditioning system, calibration gas system, and a series of gas analyzers which reflect the parameters being monitored. A Data Acquisition and Handling System (DAHS) receives the signal output from each analyzer, which is then simultaneously transmitted live to CPCB / APPCB Servers in order to collect and record emissions data

Technology used:

- SO₂ measurement – Non-Dispersive Ultraviolet Absorption spectroscopy

Benefits: Self-regulation of Industry

Challenges faced during the project:

- Moisture in stack – availability of suitable material of construction

Prevailing practice in the industry:

Compliance to APPCB order



COROMANDEL VIZAG

SUB: Environmental – Emission & Effluent Control measures

Name of the Project: **Quality Assurance Laboratory Fumes Scrubber**

Problems faced before implementation of initiative:

- Quality Assurance Laboratory Fumes let to atmosphere.

Brief Description: Fumes Scrubber

Technology used: The scrubber system consists of a void tower crossflow Gas Scrubber with a Gas Scrubber Fan drawing gases from the various emission points of the Quality Assurance Laboratory and discharging them to the Stack.

The gases enter the gas scrubber through the bottom. They are washed with an aqueous solution. This solution circulates through the pumps. The make-up is done by process water. The bleed of the scrubber is pumped to ETP for treatment & reuse.

Benefits: Scrubbing of Gases for Fumes control

Challenges faced during the project:

- Water balance & effluent control of scrub liquor

Prevailing practice in the industry: Gas scrubbing ensures sustainable emission control.



COROMANDEL VIZAG

SUB: Environmental – Soil Rejuvenation

Name of the Project: **Garden Compost**

Problems faced before implementation of initiative:

- Lower Soil Nutrients in around Housing Colony.

Brief Description: Garden Compost

Technology used: Small Pits were dug in around each house in housing colony. is as simple as collecting yard waste or the organic materials in your trash (such as fruit and vegetable peels) to fill a pit. Over the course of a year or so, the material will decompose.

Benefits: The decomposed organic material is then added to soil to provide nutrients to sustain plant growth. Compost also helps to improve soil structure and supports soil microbes that are integral to plant health.

Challenges faced during the project: Some people believe learning how to compost is too complicated, it smells bad, and it's messy. This may be true if you compost the wrong way,

Prevailing practice in the industry: Compost is a natural alternative for Garden rejuvenation.



COROMANDEL VIZAG

SUB: Environmental – Monitoring

Name of the Project: **Ammonia Leak Detectors & Siren**

Problems faced before implementation of initiative:

- Non availability of information on Gas leak emissions to employees & Public

Brief Description: Siren and Ammonia Leak detectors installed at Mulagada village and at crossroad at Gate No 9, to alert Public on Ammonia Leak

Benefits: On Site Emergency Control.

Challenges faced during the project: Public unrest on Gas leaks in neighborhood villages.

Prevailing practice in the industry: Installation of leak detectors & Siren is a best practice.



COROMANDEL VIZAG

SUB: Environmental – Water Conservation

Name of the Project: **Sewage Treated Water for Gardening**

Problems faced before implementation of initiative:

- Fresh Water availability limited for Gardening.
- Utilisation of Sewage Treated Water in production process limited.

Brief Description: Installed Sewage Treated Water storage Tank, irrigation water lines for plantation at Harita Vanam

Benefits:

1. Water Conservation by avoiding freshwater use.
2. Ecological conservation by enabling zero effluent discharge.
3. Proper operation of Sewage Treatment Plant is ensured, else presence of pathogenic bacteria will harm Green plantation as well as contaminate groundwater.

Challenges faced during the project: A large percentage of domestic & industrial water users are afraid to use this technology to supply water (direct reuse) because of the potential presence of pathogenic organisms. However, most people are willing to accept reused wastewater for lawn irrigation and for cooling purposes in industrial processes.

Prevailing practice in the industry: Suitability of this technology, especially where there is a water deficit for several months of the year, implementation of wastewater recycling or reuse by industries can reduce demands for water of potable quality, and also reduce impacts on the environment.



COROMANDEL VIZAG

SUB: Environmental – Water Conservation

Name of the Project: **Rainwater Harvesting**

Problems faced before implementation of initiative:

- Fresh Water availability limited.

Brief Description: Installed Rainwater Harvesting System for Control Rooms

Benefits:

1. Water Conservation by avoiding freshwater use.

Challenges faced during the project:

1. Limited storage of rainwater.
2. Lot of dust accumulated in collection area, is washed away into rainwater collection system during rain, clogging drains as well as acidic & huge sediment water to plantation can harm plantation.

Prevailing practice in the industry: Rainwater harvesting is the viable technology used to conserve rainwater by collecting, storing, conveying, and purifying of rainwater that runs off from rooftops, parks, roads, open grounds, etc. for later use.



SUB: Environmental – Water Conservation

Name of the Project: **Startup Tail Gas Scrubber**

Problems faced before implementation of initiative:

- High SO₂ emissions through stack during cold startup and process upsets.

Brief Description: Installed Start -up Tail Gas Scrubber where upward process gas flows is scrubbed by countercurrent Sodium Hydroxide solution in a packed Absorber, where SO₂ reacts with NaOH to form sulphite and sulphate salts (Na₂SO₃ , NaHSO₃ , Na₂SO₄).

Scrubber operates with close pH control on absorbing solution.

Benefits:

1. SO₂ emission control.

Challenges faced during the project:

1. Density control – Higher density of absorbing solution causes clogging of absorber and leads to SPM carryover.
2. Low pH of Absorbing solution causes loss of Absorption.
3. Requires automatic process control.

Prevailing practice in the industry: Startup Tail Gas Scrubber for Sulphuric Acid Plant is as part of compliance to APPCB / CPCB guidelines.



Annexure-5

**Environmental Control Measures
Coromandel International Limited
Visakhapatnam**

s.no	EHS (2023-24)	Rs. Lakhs
1	Super heater replacement along with inlet & outlet ducts	650
2	Procurement of Heat Exchanger for evaporators with Carbon fiber reinforced graphite tubes - 1 No	150
3	Dilution cooler - replacement	150
4	Road Sweeping Machine	110
5	Sulphuric acid piping in Complex-ABC Train replacement with Alloy 20	80
6	Lightening protection phase - 3	80
7	B-Tr Dryer separator vessel & C-Tr Pre-scrubber vessel renewal	70
8	Critical flow meters	60
9	LECO sulphur analyzer	55
10	Miyawaki plantation Phase - V	11
11	SAP 1&2 cooling tower blowdown water recovery pumping system	25
12	Desalination plant of 6 MLD Capacity	3000
	Total	4441

s.no	EHS (2022-23)	Rs. Lakhs
1	Green Building	20
2	Solar Street lighting	7.1
3	LED lighting	5
4	Replacement of age-old Air conditioner	15
5	Battery Operated Electric Automotive	10
6	Haritha Vanam Red soil	16
7	Miyawaki Phase-III & IV	174
8	Evaporator - II Steam Condensate recovery	33
9	2 km plant bypass road	1370
10	Anion Rinse Water Recovery system	61
11	CAAQMS & OCEMS (New & O&M)	100
12	STP Capacity Enhancement	50
13	ETP sludge storage shed	150
14	Digital Display Board	3.0
15	NOx Analyzer	14

	Total	2028.1
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s.no	EHS (2021-22)	Rs. Lakhs
1	Water recovery by rainwater harvesting	100
2	Gypsum Pond Leachate Recovery System	670
3	Installation of impervious HDPE Geo permeable membrane liner	650
4	Renovation of Online Continuous Emission Monitoring system	180
5	Renovation of Continuous Ambient Air Quality Monitoring system	70
6	Harithavanam Grass Cover	24
7	Miyawaki PH-II	45.6
8	Prill Tower area Grass	12
9	Colony Plantation	2
10	Green Visakha	271
11	Wharf plantation	2
	Total	2026.6

s.no	EHS (2020-21)	Rs. Lakhs
1	Green Visakha Plantation	266
2	CAAQMS at Garage location	49
3	EPR Charges for Plastic Waste Management	80
	Total	395

s.no	EHS (2019-20)	Rs. Lakhs
1	Green Visakha Plantation	140
2	HDPE liner for Gypsum Pond	1300
	Total	1440

s.no	EHS (2018-19)	Rs. Lakhs
1	Green Visakha Plantation	100.0
2	Gypsum Neutralization Unit	70.0
3	Drains Improvement (PA Plant)	25.0
4	Energy Efficient lighting at plants	20.0
5	Grass plantation at gypsum Pond on trials	5.0
	Total	220.0

s.no	EHS (2017-18)	Rs. Lakhs
1	Oil Skimmer	25.0
2	Green Visakha Plantation	50.0
3	PAP & remining stacks analysers	43.0
4	Gypsum Neutralization Unit	1000.0
	Process Drains Improvement (PA Plant)	130.0
	Total	1248.0

s.no	EHS (2016-17)	Rs. Lakhs
1	Oil spill recovery equipment	46.0
2	Sewage Treatment Plant	51.0
3	A , B Train – Online monitoring & Closed Circuit Camera	63 .0
	Total	160.0

s.no	EHS (2015-16)	Rs.Lakhs
1	Ambient Air Quality – 3 rd stations (replacement to Cyclone damaged)	50.0
2	Online Monitoring equipment (Complex plant C train)	18.0
3	Plantation (inside + outside)	54.0
4	Improvements in Effluent Handling	55.0
	Total	177.0

s.no	EHS (2014-15)	Status	Rs.Lakhs
1	Replacement of damaged insulation due to HUd-Hud Cyclone	2014-15	230
2	Mechanical Plate exchanger replacement at SAP-I	2014-15	80
3	Pre-scrubber tank replacement	2014-15	18
4	REPL. OF BME CANDLES FOR SAP-1 AND SAP-2	2014-15	40
5	Replacement of Dedusting system ay Ctrain Cyclone ducts	2014-15	32
	Total, Rs/-		400

s.no	EHS (2013-14)	Status	Rs.Lakhs
1	Green Belt Development by TERI on Gypsum pond	2013-14	250

2	REPL. OF BME CANDLES FOR SAP-1 AND SAP-2	April'13	62
	Total,Rs/-		312

s.no	EHS (2012-13)	Status	Rs.Lakhs
1	3 rd online AAQM station	March'13	60
2	Green Visakha -15000 saplings	March'13	58
3	A,B TRAIN COOLER CYCLONE DUCTING,RENEWAL	Nov'12	22
	Total,Rs/-		140

s.no	EHS (2011-12)	Status	Rs.Lakhs
1	Portable workplace monitoring system	May'12	10
2.	Green Visakha at Air port	March'13	50
	Total,Rs/-		60

	Capex -EHS(2010-11)	Status	Rs. Lacs
1	Effluent / Storm Water drains management	Feb'2011	30.00
2	Ambient Air Quality monitoring Station	March'2011	60.00
3	Effluent Treatment Plant(ETP)	August'2011	1600.00
4	HDPE lining -Gypsum siding area (About 5 acres)	July'2010	150.00
5	Telescopic chutes for Rock Go down	Feb'2011	45.00
6	Structural Stability	2010-11	120.00
7	Replacement of BME candles for FAT & DT	March'2011	40.00
8	AAQM Station at Mulagada village	Nov'2010	22.00
	Total(Lacs)		2067.00

2009-10		(Rupees lakhs)	
Sl. no.	Measure	Year installed	Cost Rs. Lakhs
1.	HDPE lining Gypsum area – 5 acres	2009	100.00
2.	Water Conservation	2009	50.00
3.	Improvement to storm water drain system	2009	30.00
4.	Greenbelt Development	2009	17.00
5.	Start up Alkali Scrubber at 1400 MTPD sulfuric acid plant to reduce SO2 emissions	2009	135.00
6.	Fire water system for AAST	2009	30.00
7.	Ambient air monitoring station(AAQM)	2010	75.0
8.	Study of scrubbing system at complex plant	2009	10.00
9.	Filling of Black cotton soil at 7 th gate	2010	15.00
	TOTAL(Lacs)		462.00

Sl. no.	Measure	Year installed	Cost Rs. Lakhs
10.	Installed Dry gypsum Disposal system at Phosphoric acid plant	April'2009	2900
11.	BME candles for Final absorption tower of SAP-II	2008	10
12.	Procured road sweeping machine to reduce dust emission during movement of vehicles inside the plant roads	2008	17
13.	Installation of Alkali start-up scrubber for 300 MTPD sulfuric acid plant to reduce SO ₂ emission during start-up	2008	99
14.	Installation of new bag-filter in place of existing bag-filter at wharf new silo for reduction of fugitive dust emissions	2008	14
15.	Replacement of bag-filter at old ball mill of rock-grinding unit	2007	18
16.	Installation of Air Pre-heater in Trains 'B' & 'C' of complex plant	2006	320
17.	Installation of Air Pre-heater in Train-A of complex plant	2006	165
18.	Installation of Telescopic chute (2 Nos.) at Wharf New Silo	2006	13
19.	Installation of pipe conveyor at wharf in place of cross conveyor.	2005	175
20.	Hazardous waste handling and disposal system	2004	5
21.	Installation of telescopic chute at rock phosphate storage godown.	2004	30
22.	Replacement of fume gas scrubber at phosphoric acid plant.	2004	150
23.	Installation of de-dusting system at rock phosphate unloading area.	2004	10
24.	Installation of new Screw Unloader System in place of gantry grab bucket system and construction of silo and overhead pipe conveyor at wharf	2003	2000
25.	Installation of new bag filter for storage silo at wharf area in place of existing one.	2003	20
26.	New SO ₂ on-line analyser was installed at sulphuric acid plant.	2002	8

Sl. no.	Measure	Year installed	Cost Rs. Lakhs
27.	Ground rock transfer system from rock grinding station to phosphoric acid plant modified from pneumatic system to pipe conveying system.	2002	200
28.	Bag-filter was installed on inclined conveyor at wharf area.	2002	2
29.	Additional bag-filter at rock grinding unit	2001	5
30.	New scrubbing system for train 'B'	2001	550
31.	New scrubbing system for train 'A'	2000	550
32.	Telescopic chutes (2 nos.)	2000	12
33.	Pollution control equipment for new complex Train 'C'	2000	833
	TOTAL Rs./ lakhs		8106

BEFORE THE YEAR 2000

34.	Telescopic chute, emulsifier nozzles & bag filter at wharf area	1999	10
35.	Renewal of bag filter at rock grinding	1998	15
36.	Molten sulfur handling facility	1997	1050
37.	Reinstallation of high capacity effluent pumps	1996	50
38.	Renewal of bag filter at phosphoric acid plant	1995	5
39.	Green-belt development	-	20
40.	Revamping of sulfuric acid plant converter & use of high active ring shaped catalyst.	1994	450
41.	Modification of recirculation pumps in effluent treatment plant	1994	35
42.	Fluorine recovery unit	1994	320
43.	LPG/Naphtha fumes monitor for leak detection	1993	4
44.	Installation of continuous pH meter for DT acid cooler exit water	1993	2
45.	Replacement of cold heat exchanger	1992	80
46.	Fluoride analyser for effluent analysis	1992	4
47.	Installation of continuous SO ₂ , analyser for stack in sulfuric acid plant	1992	15
48.	Installation of dust control system in bagging plant	1992	12
49.	Installation dust control system at wharf silo	1992	13
50.	Monitoring equipment viz. High volume samplers, ammonia sensors.	1990 & 91	5
51.	Effluent recycle scheme in complex plant	1989	12
52.	Construction of effluent treatment plant	1989	250
53.	Installation of bag filters in rock grinding plant	1989	12
54.	Construction of new F.A.T. in sulfuric acid plant	1989	20
55.	Extension of fume scrubber stack in phosphoric acid plant	1988	6
56.	Installation of fumes scrubber in phosphoric acid plant	1987	30
57.	Installation of mist eliminator candles in sulfuric acid plant	1987	10
58.	Rinse water recovery scheme in utilities plant	1984	3

<u>BEFORE THE YEAR 2000</u>			
59.	Replacement of conventional catalyst to more active type (Ring)	1980	60
60.	Conversion of sulfuric acid process to DCDA technology	1975	250
61.	High efficiency Venturi scrubbers in complex plant	1967	27
62.	Dust cyclones in complex plant	1967	6
63.	Installation of dust cyclones in phosphoric acid plant	1967	4
TOTAL Rs/ lakhs			2796

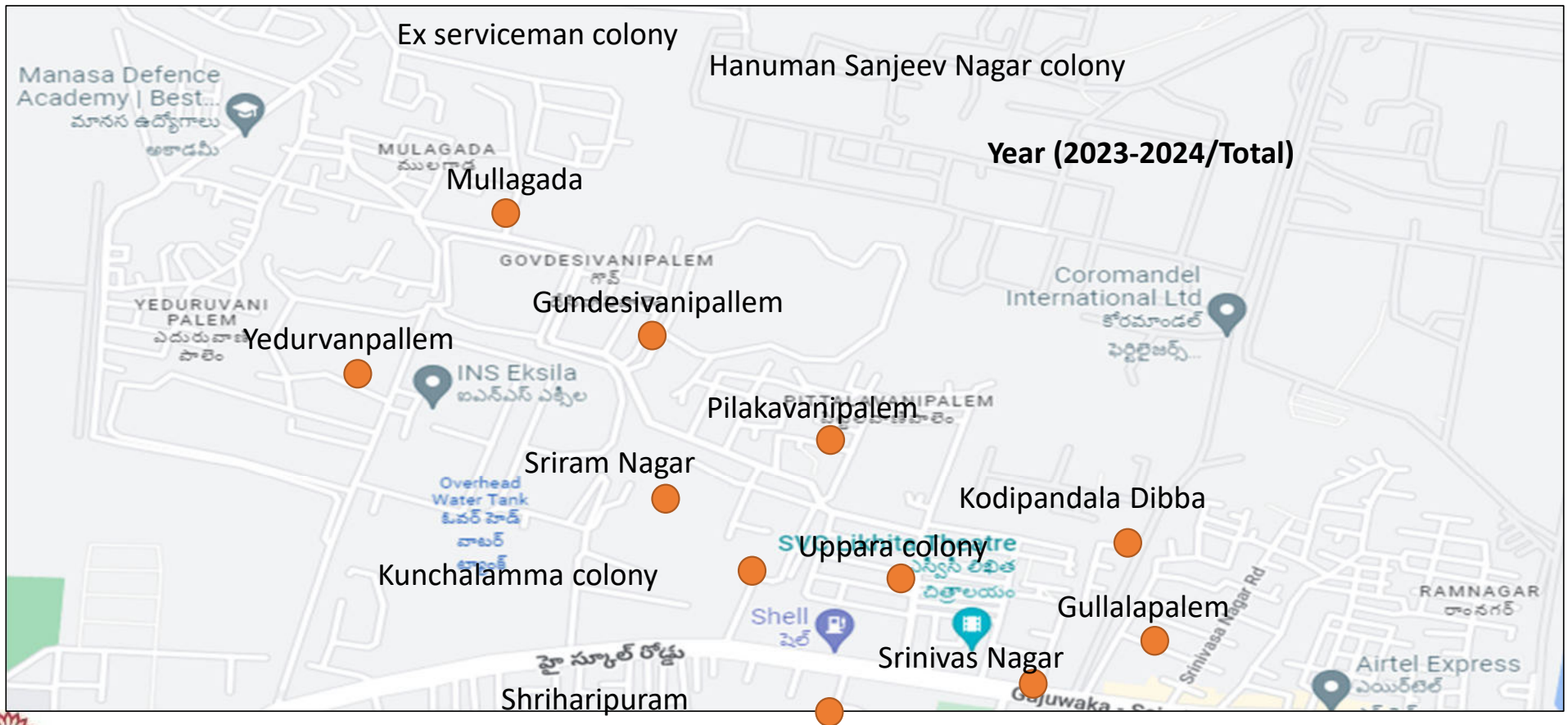
Note: Total investment from 1967 to 2012-13 = 13631 lakhs
Capital investment for 2013-14 = 312 lakhs
Investments in 2014-15 = 400 lakhs
In 2015-16 = 177 lakhs
In 2016-17 = 160 lakhs
In 2017-18 = 1248 lakhs
In 2018-19 = 220 lakhs
In 2019-20 = 1440 lakhs
In 2020-21 = 395 lakhs
In 2021-22 = 2026 lakhs



CSR
Annual report 2023-2024

Vizag

Mapping villages-Total bEN -217134



Approved Vs Spent– 23-24

S.No

Domain

Spent (Lacs)

1

Community Development

133.00

2

Health

73.79

3

Education

85.67

Total

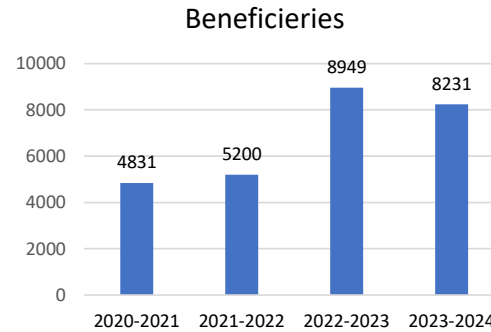
292.46

Spent
Matrix

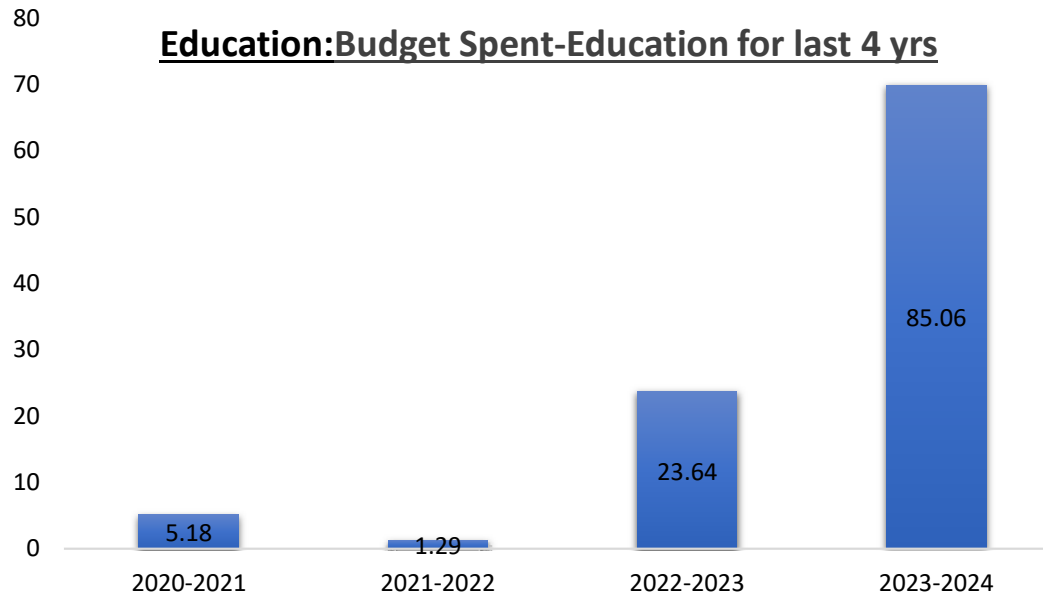
CSR Initiative-Education

Key Highlights of the Last 4 Year

- Chemistry its FUNdametals
- Renovated Social welfare Girls hostels
- Coromandel Girlchild scholarship
- Champs Life skill development to children
- Karadi path Magic English
- School infra



Education: Budget Spent-Education for last 4 yrs

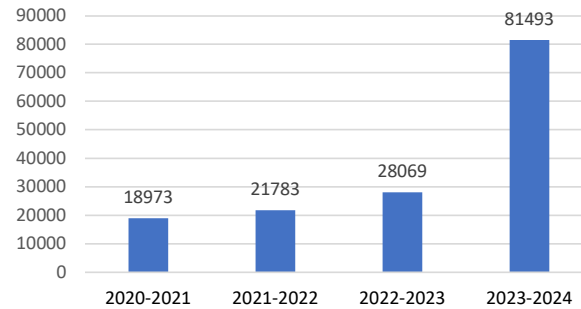


CSR Initiative-Health

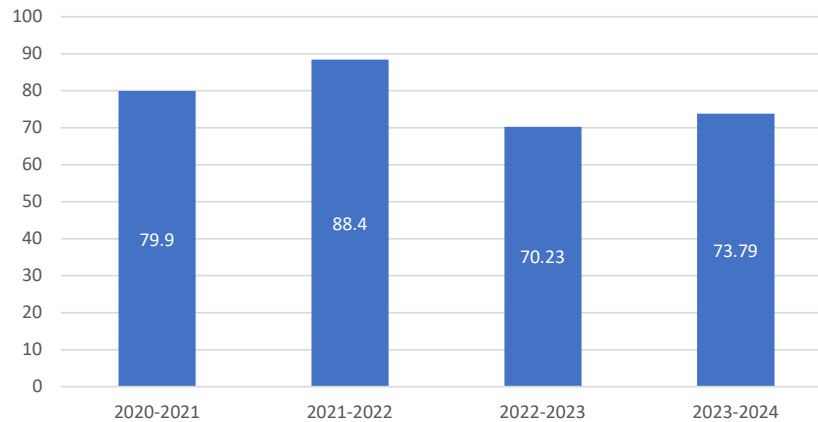
Key Highlights of the last 4Years

- New Coromandel Medical centre
- IBCC
- Eye screening camp
- Women & Children Medical camp
- Anti-Larval & Fogging
- Health & Nutrition program

Beneficiaries



Health

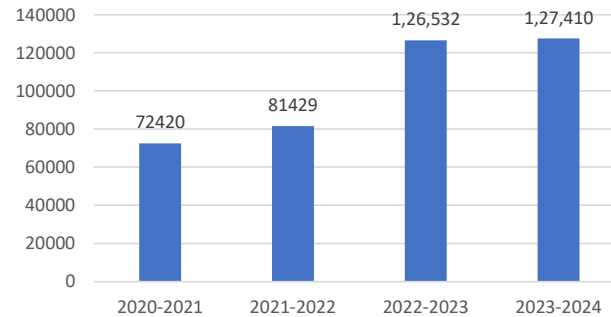


CSR Initiative-Community development

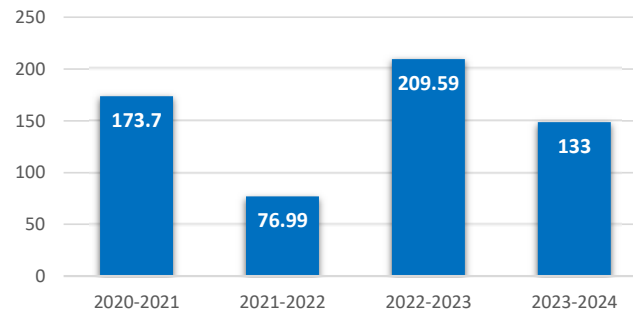
Key Highlights of the Year

- Community infra
- Women livelihood –Ekka
- Community Bore Motor wells
- Community Open Gyms-
- Inter village sports for youth
- Women sports
- RO water plant
- World environment day
- Govt ITI Computer Lab
- Renovated Fire station

Beneficiaries



Annual Budget Expenditure
Community Development





Coromandel Prayog Utsav

- Coromandel Prayog Utsav (Mega Science Fair) on 29th Feb 2024.
- Mr. Husaian, Revenue Divisional Officer, Prof. Murthy garu, HoD of Journalism & Mass Communication & Dean Examinations of Andhra University, Mr. Rama Rao, Dy. Director of Social Welfare were the Chief Guests of the program.
- Total No of schools attended :29
- No of projects :150
- Total children attended :450

Inauguration of Coromandel Science Laboratory @ Mindi High School

- Coromandel Science Laboratory was Inaugurated by Mr. Gudivada Amaranth, IT & Industrial Minister, Mr. Tippala Nagireddy, MLA of Gajuwaka at Govt High school Mindi on 26th June-2023.
- No. of Beneficiaries - 740





Coromandel Science Laboratory @ Malkapuram GVMC High School inaugurated by Mr. Arun Leslee George, President & CHRO of Coromandel International Limited

30th Aug'23

No. of Beneficiaries - 1190



Coromandel Girl Child Scholarship Program

- Organized Coromandel Girl child Students success meet-2023.
- Coromandel Ladies Association recognized and encouraged 23 children who secured 510 marks and also state level rankers from Malkapuram GVMC High school
- Beneficiaries - 70 scholarship children
- Our scholarship- SSC children attended the examination out of 23 no's got 500 above marks

Teacher training workshop

- Organized 2 days Teachers training workshop on 12th & 13th Oct 2023 at Our CRC
- To ensure teachers in these schools have access to tested teaching learning materials in both print and multimedia formats to empower the students improve their English Language proficiency
- To empower the Teachers, use audio and video tools in govt schools through the implementation of the Karadi path Program.
- Participated Mandel educational officer, cluster recourse person ,Govt school teachers and our HR dept



New Coromandel Medical Centre Inauguration

- New Coromandel Medical Centre Inaugurated by Shri Nageswarao garu, DMHO along with 58th ward Corporator, Mr.Gnanasundaram-VP & Unit Head, Mr.Jayagopal- CSR Head , Mr.Srinivasrao, DGM-HR
- DMHO appreciated coromandel management for their support towards health care services to the community.



- Initiated on 15th Nov 2023





Women & children Medical camp



- We Organized a dedicated Medical camp for Community Women & children (Up to 13years of age) at Gullalapalem & Mulagada villages and offered various services like ECG,RBS,LFT,HBSAg,CBC,ESR,THYROID PROFILE,BLOOD GROUP,URIC ACID,CERVICAL CANCER SCREENING etc.
- Provided Six services
Gynaecology/Paediatric/Orthopaedic/Nutrition /Dentist/General physician.
- Total conducted 2 villages on 3rd & 10th Dec 2023 total 541 beneficiaries benefitted they're of the programme and expressed their gratitude to the coromandel management for Organized this camp at their villages. Peoples participated from Gullalapalem & Mulagada.

World breast feeding week celebrations

- Coromandel International limited, is closely working around 5 Anganwades (Mulagada/Pilakavanipalem/Gullalapalem/Sriharipura m/Yeduruvanipalem) nearby plant surrounding areas. We have conducted World Breastfeeding Week celebrations supported with Integrated Child Development Services (ICDS)
- Total pregnant & Lactation women covered 180 Nos and we provided Nutrition kits and participated Local corporator/ICDS Project director/Anganwadi teachers



Integrated Behavior Change Communication (IBCC)

- We have organised IBCC Project- Integrated Behavior Change communication to community.
- Health awareness/Hypertension/hand wash/Adolescent/Nutrition to community members.



School Medical Camps

- Dental screening, Eye screening and Anemic screening camp 4 Govt primary and 4 High schools and total covered 9 Govt. Schools.
- As per requirement provided Dental kits & Anemic kits to school children.
- 3370 children in 8 Govt. Schools.



Eye screening camp @ Community



We organized Eye screening camp Yeduruvanipalem and Pilakavanipalem villages and no of Benefitted 490

Anti Larval & Fogging

- Anti-Larval & Fogging Sprayed to Project villages.
- To avoid & control the seasonal diseases like Dengue, Malaria- Anti-Larval & Fogging Spray to 11 major community villages.



Diabetic awareness Run

- Every year Coromandel Employee We Organized Diabetic Awareness Programme.
- Participated 98 employees provided participate certificates





Community Hall Inauguration- Gondesivanipalem (58th ward)

- 58th ward Community hall Inaugurated by Anand Kumar YSRCP in charge and MSME Chairman and 58th ward Corporator Mrs.Lavanya and community leaders on 14th Aug 2023
- 110 families benefitted & 600 peoples covered.





Community Hall Inauguration-Hanuman Sanjivani colony (60th ward)

- Community hall Inaugurated by Mr. A Anandkumar MSME Chairman and west zone YSRCP in charge, 60th ward corporator Mr. Suresh and community leaders on 14th Aug 2023
- 320 families benefitted 1600 peoples covered.
- 2 community halls works under process



10 Community Borewells installed



- Established 10 community bore wells in 10 locations
- Borewells inaugurated by Mr.Adari Anand kumar YSRCP In charge west zone & MSME Chairperson and 58th ward Corporator.
- 2023-2024 we initiated 4 Motor bore wells four villages

4 Community Open Gyms Established

- Established 4 Community Open Gyms
 - Yeduruvanipalem
 - Pilakavanipalem
 - Gullalapalem
 - Ex servicemen colony



Coromandel Inter-village Cricket Tournament 2023-24

- Coromandel encouraged youth and conducted Sports and games every year to create a healthy atmosphere among the community
- Organized Inter-village cricket tournament at Coromandel Cricket Ground
- 18 Teams participated in this event.
- Winners Yeduruvanipalem and Runners Pilakavanipalem



World Environment day

- World Environment day celebrated and distributed the cloth bags to the Public and 30 Tree plantation at social welfare Girls hostels.
- Local Corporator, Police dept and local community members participated.



Coromandel Ladies Association Initiatives

- World food day
- National Cancer day
- Printer, game kits, stationary support to Social welfare Girl hostel children
- Wheelchairs support
- Blanket supported to poor people
- Women's day celebration



Skill Development for women

- We established 4 Skill development program.
Each program batch consists of 30 women
 - Budget Rs. 5Lakhs x 4 = Rs.20.0 Lakhs
- 1.Maggam work
 - 2.Jute bag
 - 3.Handmade jewellery
 - 4.Beautician





murugappa

Women's day celebrations

- 2023- Women's day celebrations, involving Community women members.
- 273 community women participated



Beat Plastic Pollution



Distribution of cloth bags in presence of **District Collector (Dr. A.MALLIKHARJUNA)** and **Mr. Y.V. Subba Reddy (Chairman – TTD)**

Mega Beach cleaning

- Every year Coromandel Employee volunteers participated in Mega beach cleaning event as a part of Social cause.
- Total - 40 Employee voluntarily engaged in the event.
- District Collector,GVMC Commissioner and IT Minister Mr.Amaranath



Road Safety awareness to Govt schools

- Every year we ensure Road safety awareness to 8 Govt schools. Conducted the quiz competition provided Prizes
- Risk and property Reduced our surround plant area Govt schools



Renovation of Social welfare Girls Hostels



Dayal Nagar Girls Hostel



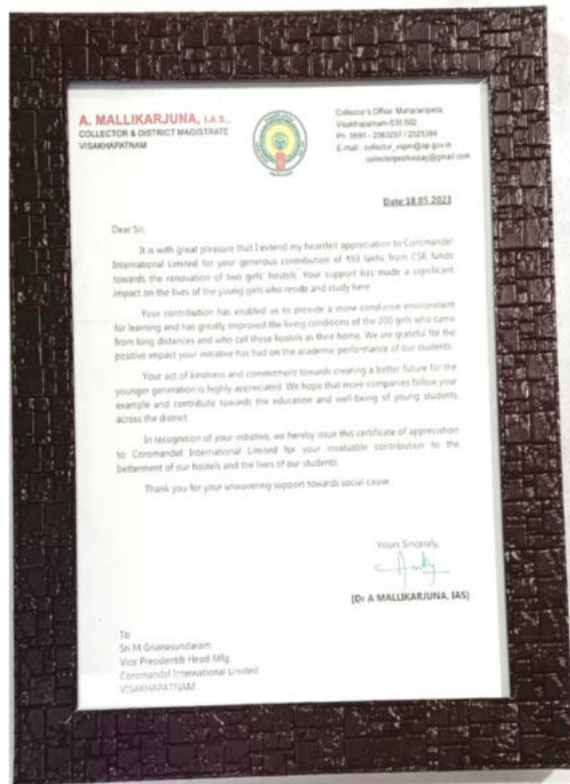
Nadupuru Girls Hostel



Social welfare Girls Hostels Inaugurated by District Collector



Social welfare Girl's hostel report Hand overed to District collector



Appreciation letter From District Collector



Coromandel ladies Association

- Coromandel Ladies Association visited and interacted with Social welfare Girl Children at Nadupuru.
- Ladies Association Provided Stationery and Games kits to school children.
- Ladies Association conducted Health Hygiene awareness session to children.
- 30 tree Plantation carried out by the team.



Coromandel Ladies Association visited to Social welfare Girls PG hostel Dayal Nagar

- Coromandel Ladies Association visited and interacted with Social welfare Girl PG students at Nadupuru.
- Ladies Association supported scanning printer to Hostel students.
- Awareness created on Personal Hygiene by Dr.Madhulatha.
- 30 tree Plantation carried out by the team.



PRSI National CSR Award

- Received First Prize in best CSR Programme for promoting Science & Technology.
- Award presented by Mr. Rajiv Ranjan Misra, Dhruva Jyoti Patil.



Malkapuram Police station Renovation

- Renovated Malkapuram Police station and it was inaugurated by Mr. Anand Reddy, DCP Zone 2, Mr. Gnanasundaram-Vice President & Mr. GSV Raja, AVP HR of Coromandel along with Mr. Demudu Babu garu, Station Officer of Malkapuram Police Station





150 Safety Barricades to Police & surrounding communities

Fire Station Renovation jobs @ Pedagantyada

- Inaugurated by Mr.Niranjanreddy,
Regional Fire officer, Mr. M.
Gnanasundaram, Vice President of
Coromandel along with Mr. Renukaiah,
District Fire officer





Thank You