Coromandel
FUTURE POSITIVE

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

EHS/MoEF/2024-128 **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 (Environment Clearance) Compliance Report- regd.

Ref: F. No. 11-35/2015-IA-III dated 27.06.2017

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for installation of proposed Sulphuric acid (2X12500 MT) and Phosphoric acid (2X10000 MT) storage tanks along with unloading facilities and pipelines at the existing fertilizer Wharf – CRZ Clearance.

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 18:23
To: eccompliance-ap@gov.in; rovspappcb@gmail.com; zovspappcb
Cc: EHS2-Vizag-Coromandel; Nageswara Rao G-AsstMgr-EHS-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 (Environment Clearance) Compliance Report- regd.
Attachments: EC Compliance SA PA TANKS WHARF (Apr-24 to Sep-24).pdf

Dear Sir,

Ref: F. No. 11-35/2015-IA-III dated 27.06.2017

Please find the attached half yearly compliance report of Environment Clearance issued by MOEFCC for installation of proposed Sulphuric acid (2X12500 MT) and Phosphoric acid (2X10000 MT) storage tanks along with unloading facilities and pipelines at the existing fertilizer Wharf – CRZ Clearance.

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

TEAM
Labs and Consultants

ORIGINAL

Form-No. TCL/L/GF/RF-138

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/20/0924**		**dt.01.10.2024**	
Description of Test		**Soil Testing-Post monsoon season**			
Name of the client		**Coromandel International Limited, Visakhapatnam**			
Location of sampling		**As provided below**			
Date of Collection		**29- 09 -2024**			
No	**Parameter**	**Near ETP**	**Near STP**	**Near Hazwaste godown**	**Near Guesthouse**
1	Texture (sand %, silt %, clay %)	Sandy loam Sand50%,silt30% Clay20%	Sandy loam Sand50%,silt28% Clay22%	Clay loam Sand36%,silt36% Clay28%	Sandy loam Sand50%,silt28% Clay22%
2	pH	7.7	7.9	7.8	7.6
3	Moisture %	11.2	12.5	10.7	11.9
4	Conductivity micromhos/cm	510	880	980	590
5	Specific gravity	2.7	2.7	2.8	2.7
6	Bulk density g/cc	1.45	1.5	1.4	1.45
7	Permeability	high	high	Medium	Medium
8	Sodium Absorption Ratio	0.09	0.06	0.3	0.08
9	Water holding capacity %	26	30	35	30
10	Porosity %	42	37	33	35
11	Available Nitrogen kg/ha	590	480	340	480
12	Nitrate nitrogen mg/kg	14.0	15.0	28	17.5
13	Available phosphorus as P2O5 kg/ha	240	125	190	150
14	Available Potassium asK2O kg/ha	440	500	470	390
15	Calcium as Ca mg/kg	750	765	1410	355
16	Magnesium as Mg mg/kg	250	260	910	340
17	Acidity	Neutral	Neutral	Neutral	Neutral
18	Alkalinity	Neutral	Neutral	Alkaline	Alkaline
19	Sulphate sulphur mg/kg	750	410	830	610
20	Boron mg/kg	<10	<10	22	12
21	Zinc mg/kg	190	140	160	215
22	Soluble Flouride mg/kg	1.2	1.0	1.2	0.8
23	Manganese mg/kg	220	310	450	280
24	Iron mg/kg	230	270	1340	480
25	Lead mg/kg	38	28	140	52
26	Cadmium mg/kg	5.8	2.9	12.0	8.9
27	Chromium mg/kg	<10	<10	19	10
28	Nickel mg/kg	<0.5	<0.5	<0.5	<0.5
29	Arsenic mg/kg	<0.1	<0.1	<0.1	<0.1
30	Chloride mg/kg	135	140	310	140
31	Sodium asNa2O mg/kg	45	32	210	55
32	Organic carbon %	0.8	0.8	0.6	0.9
33	Soluble PO4 mg/kg	80	35	66	42

For TEAM Labs and Consultants

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TEST REPORT

Test Report No		**TLC/V/Env/CIL/21/0924**		**dt.01.10.2024**
Description of Test		**Soil Testing**		
Name of the client		**Coromandel International Limited, Visakhapatnam**		
Location of sampling		**As provided below**		
Date of Collection		**29.09.2024**		
No	Parameter	Near VST	Near 7th gate	Near Wharf
1	Texture (sand %, silt %, clay %)	Sandy loam Sand53%,silt27% Clay18%	Sandy loam Sand50%,silt30% Clay20%	Clay loam Sand35%,silt40% Clay25%
2	pH	7.0	7.3	7.4
3	Moisture %	10 10.2	10.0	11.5
4	Conductivity micromhos/cm	2500	970	1118
5	Specific gravity	2.7	2.8	2.7
6	Bulk density g/cc	1.6	1.5	1.5
7	Permeability	high	high	Medium
8	Sodium Absorption Ratio	0.05	0.06	2.2
9	Water holding capacity %	28	22	28
10	Porosity %	45	48	40
11	Available Nitrogen kg/ha	530	420	440
12	Nitrate nitrogen mg/kg	14.0	15.0	21
13	Available phosphorus as P2O5 kg/ha	200	150	140
14	Available Potassium asK2O kg/ha	430	540	570
15	Calcium as Ca mg/kg	770	720	1220
16	Magnesium as Mg mg/kg	210	235	1070
17	Acidity	Neutral	Neutral	Neutral
18	Alkalinity	Neutral	Neutral	Alkaline
19	Sulphate sulphur mg/kg	785	390	1090
20	Boron mg/kg	<10	<10	30
21	Zinc mg/kg	130	90	110
22	Soluble Flouride mg/kg	1.4	1.3	1.1
23	Manganese mg/kg	270	410	380
24	Iron mg/kg	290	340	1210
25	Lead mg/kg	62	40	190
26	Cadmium mg/kg	5.0	7.0	8.5
27	Chromium mg/kg	<10	<10	14
28	Nickel mg/kg	<0.5	<0.5	<0.5
29	Arsenic mg/kg	<0.1	<0.1	<0.1
30	Chloride mg/kg	140	170	880
31	Sodium asNa2O mg/kg	52	32	540
32	Organic carbon %	0.7	0.8	0.4
33	Soluble PO4 mg/kg	80	30	42

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NABL Accredited Laboratory (Certificate No. TC-12956)

TEST REPORT

Test Report No		**TLC/V/Env/CIL/27/0924**				**dt.01.10.2024**
Description of Tes		**Ground water analysis around CIL**				
Name of the client		**Coromandel International Limited, Visakhapatnam**				
Location of sampling		**As per details given**				
Date of Collection		**23.09.2024**				
	Parameter	**Rajakomal devicolony nearAnjaneya temple**	**Rajakomal devicolony NearStAndru School**	**Mulagad a near Community hall**	**Mulagad a near Ambedkar Statue**	**Desirable limit As per IS10500**
1	pH	7.6	7.7	7.6	7.5	6.5-8.5
2	Colour Hazen units	3	3	2	3	5
3	Odour	Agreeable	Agreeable	Agreeable	Agreeable	unobjectionable
4	Taste	Not done	Not done	Not done	Not done	agreeble
5	Total Dissolved solids	580	780	650	770	500
6	Turbidity	2.6	2.2	2.5	2.7	1.0
7	Alkalinity as CaCO3	230	280	250	260	200
8	Arsenic as As	<0.001	<0.001	<0.001	<0.001	0.05
9	Boron as B	0.01	0.01	0.02	0.01	1.0
10	Cadmium Cd	<0.001	<0.001	<0.001	<0.001	0.01
11	Calcium Ca	80	120	80	136	75
12	Chlorides Cl-	130	195	150	210	250
13	Total Chromium Cr	<0.01	<0.01	<0.01	<0.01	0.05
14	Cyanide as CN	<0.01	<0.01	<0.01	<0.01	0.05
15	Flouride	0.3	0.5	0.3	0.4	1.0
16	Total Hardness as CaCo3	330	460	320	490	200
17	Iron	0.04	0.06	0.07	0.06	0.3
18	Lead	0.008	0.007	0.007	0.005	0.05
19	Manganase	0.01	0.01	0.02	0.01	0.1
20	Magnesium	31.59	38.9	29.2	36.45	30
21	Mercury	<0.001	<0.001	<0.001	<0.001	0.001
22	Copper	0.001	0.001	0.001	0.001	0.05
23	Nitrate as NO3	8.0	29.0	12.5	24.4	45
24	Nitrite	Nil	Nil	Nil	Nil	Nil
25	Phosphates	<0.1	<0.1	<0.1	<0.1	-
26	Sulphates	95	102	122	105	200
27	Zinc	0.05	0.03	0.1	0.05	5.0
28	Aluminum	0.001	0.001	0.001	0.001	0.03
29	Mineral Oil	<0.1	<0.1	<0.1	<0.1	0.5
30	Phenolic compounds	<0.001	<0.001	<0.001	<0.001	0.001
31	Nickel	0.001	0.001	0.001	0.001	0.02
32	Selenium	<0.001	<0.001	<0.001	<0.001	0.01

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TEST REPORT

Test Report No		**TLC/V/Env/CIL/28/0924**			**dt.01.10.2024**
Description of Tes		**Ground water analysis around CIL**			
Name of the client		**Coromandel International Limited, Visakhapatnam**			
Location of sampling		**As per details given**			
Date of Collection		**23.09.2024**			
	Parameter	**Yeduruvanipalem near HZL compound wall**	**Yeduruvanipalem near Ambedkar statue**	**Kodipandal a dibba near Anganwadicentre**	**Desirable limit As per IS10500**
1	pH	7.6	7.5	7.5	6.5-8.5
2	Colour Hazen units	4	4	3	5
3	Odour	Agreeable	Agreeable	Agreeable	unobjectionable
4	Taste	Not done	Not done	Not done	agreeble
5	Total Dissolved solids	250	710	640	500
6	Turbidity	2.5	2.6	2.9	1.0
7	Alkalinity as CaCO3	90	190	215	200
8	Arsenic as As	<0.001	<0.001	<0.001	0.05
9	Boron as B	0.01	0.01	0.01	1.0
10	Cadmium Cd	0.01	0.01	<0.001	0.01
11	Calcium Ca	32	80	92	75
12	Chlorides Cl-	50	140	145	250
13	Total Chromium Cr	<0.01	<0.01	<0.01	0.05
14	Cyanide as CN	<0.01	<0.01	<0.01	0.05
15	Flouride	0.15	0.3	0.3	1.0
16	Total Hardness as CaCo3	90	280	310	200
17	Iron	0.04	0.04	0.06	0.3
18	Lead	0.01	0.012	0.005	0.05
19	Manganase	0.02	0.02	0.02	0.1
20	Magnesium	2.4	19.4	19.4	30
21	Mercury	<0.001	<0.001	<0.001	0.001
22	Copper	0.001	0.001	0.001	0.05
23	Nitrate as NO3	14.0	9.0	17.0	45
24	Nitrite	Nil	Nil	Nil	Nil
25	Phosphates	<0.1	<0.1	<0.1	-
26	Sulphates	35	120	115	200
27	Zinc	0.05	0.09	0.05	5.0
28	Aluminum	0.001	0.001	0.001	0.03
29	Mineral Oil	<0.1	<0.1	<0.1	0.5
30	Phenolic compounds	<0.001	<0.001	<0.001	0.001
31	Nickel	0.001	0.001	0.001	0.02
32	Selenium	<0.001	<0.001	<0.001	0.01

For TEAM Labs and Consultants

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TEST REPORT

Test Report No	**TLC/V/Env/CIL/30C/0924**	**DATE 01-10-2024**
Description of Test	**Noise Level Monitoring**	
Name of the client	**Coromandel International Limited, Visakhapatnam**	
Location of sampling	**Asper details provided**	
Date of collection	**SEPTEMBER-2024**	
	LOCATION / AREA	**NOISE LEVEL LIMITI (70 dB)**
Night	**1St Gate**	**52**
	2nd Gate	**54**
	3rd Gate (Plant)	**55**
	4th Gate	**52**
	5th Gate	**48**
	6th Gate	**50**
	7th Gate	**55**
	8th Gate	**56**
	9th Gate	**54**
	Contractor gate	**50**
	LOCATION / AREA	**NOISE LEVEL LIMITI (75 dB)**
Day	**1St Gate**	**68**
	2nd Gate	**64**
	3rd Gate (Plant)	**67**
	4th Gate	**62**
	5th Gate	**63**
	6th Gate	**68**
	7th Gate	**60**
	8th Gate	**65**
	9th Gate	**66**
	Contractor gate	**62**

For Team Labs Consultants

Team Lab and Consultants

O/C

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EHS/APPCB/2024-113 **Dated: 28/10/2024**

To

The Member Secretary
Andhra Pradesh Coastal Zone Management Authority
(APCZMA), D.No.33-26-14 D/2, Near Sunrise Hospital,
Chalamavari Street, Kasturibaipet, Vijayawada-520010.

SUB: Submission of the CER/CSR Report for the period of April 2024 to September 2024

Ref: EC number F. No. 11-35/2015-IA-III, Dated 27 June 2017

Dear Sir,

This has reference to above mentioned subject, we are submitting the detailed report of CSR/CER activities carried out by Coromandel International Limited, Vizag during the period from April 2024 to September 2024.

We recognize the importance of sustainable business practices and are committed to making a positive impact on society and the environment.

The above submission is in line with EC compliance & Record please.

Thanking you,

Yours faithfully,
For **COROMANDEL INTERNATIONAL LIMITED**

Gnanasundaram M
Vice President & Head Manufacturing.

NAG/DNR

Enclosure: CSR/CER Report

Dial 18002666868> <Wear Masks. Stay Safe>
RN541808665IN IVR:827854180866S
RL MALKAPURAM S.O <530011>
Counter No:1.29/10/2024.11:23
To:THE MEMBER SE.D NO 33-26-14 D/
PIN:520010. Venkateswarapuram S.O
From:COROMANDEL .POST BOX NO 1116
Wt:78gms.REG=17.0
Amt:43.66.Tax:6.66.Amt.Paid:44.00(Cash)
<Track on www.indiapost.gov.in>
<Dial 18002666868> <Wear Masks. Stay Safe>

Coromandel International Limited
Post Box No. 1116, Sriharipuram, Malkapuram Post
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EHS/APPCB/2024-113 **Dated: 28/10/2024**

To

The Member Secretary
Andhra Pradesh Coastal Zone Management Authority
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Yours faithfully,
For **COROMANDEL INTERNATIONAL LIMITED**

Gnanasundaram M
Vice President & Head Manufacturing.

NAG/DNR

Enclosure: CSR/CER Report

CSR initiatives Report

April 2024 to Sep 2024

Approved Vs Spent– 24-25

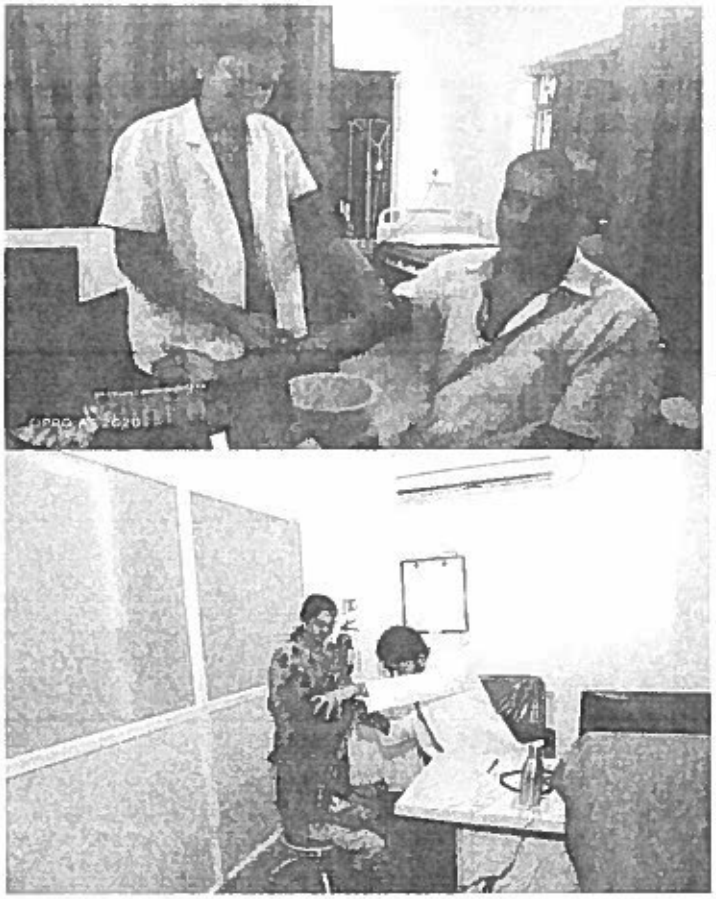
pent
Matrix

S.No	Domain	Spent Budget
1	Health	25.20
2	Education	26.23
3	Community development	10.68
	Total	62.11

April 2024 to Sep 2024

Coromandel Medical center

Sl No	Name of the Month	No of benefitted
1	April	2439
2	May	1906
3	June	2589
4	July	2410
5	Aaugust	2589
6	Sep	2365
	Total	**14298**



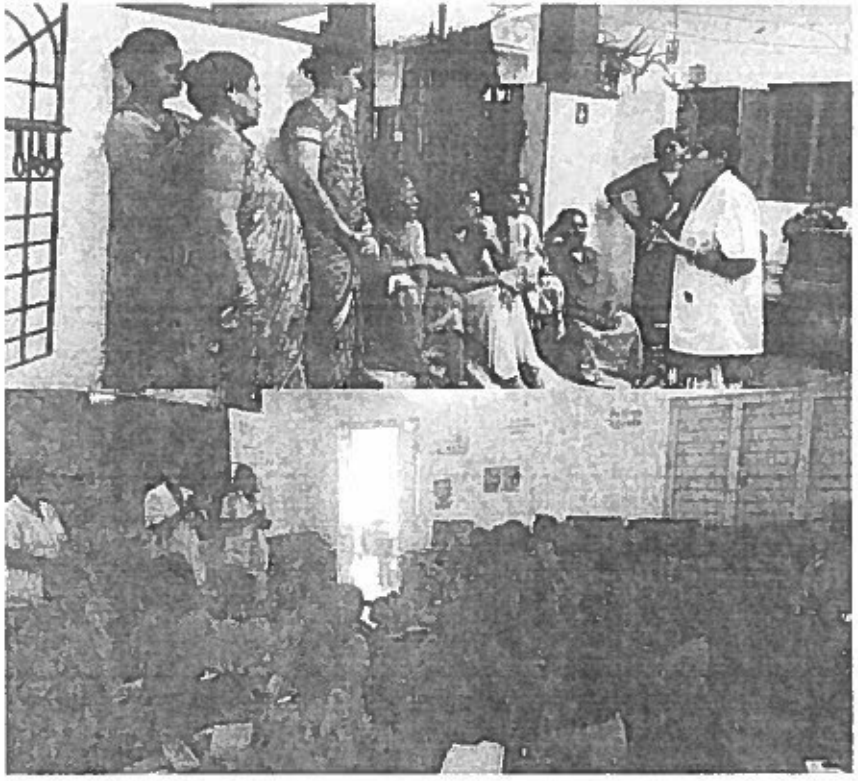
Dental screening service inauguration @CMC

- the Dental Screening Services at our CMC was inaugurated by our President & CHRO, Shri Arun Leslie George. Mr. Gnanasundaram, Vice President & Head - Mfg; Mr. GSV Raja, AVP & Head of HR; the Unit HR Head; and the Senior Leadership Team participated along with local community at CMC.

- During the event, they provided a comprehensive briefing on the CMC services, engaged with community members, and distributed tailoring kits to women to support and enhance their livelihoods. Additionally, we presented furniture to the community halls to benefit local residents. The community members were deeply moved by these contributions, and the CHRO expressed his appreciation for the CSR initiatives led by the Vizag Unit
- **Initiative on 22nd Aug 2024**

Integrated Behavioral change communication

- Comprehensive Health Outreach project aimed at strengthening local health resources and improving health outcomes in our community. The project will leverage local community structures and ambassadors for health outreach, focusing on diseases such as Tuberculosis, vector-borne diseases, Diabetes Mellitus, Hypertension, menstrual health, and adolescent health education.
- No of Beneficiaries April 2024 to Sep 2024: **28460**



Computer Lab Inaugurated By District Collector

- On 26th Sept 2024, Vizag Unit has inaugurated Computer lab as part of CSR Project towards enhancing education and digital literacy of the nearby Community students.

- Shri M. N. Harendhira Prasad, IAS – Collector & District Magistrate – Visakhapatnam in presence of Shri R. V Ramana – Regional Deputy Director - Zone 1 – Visakhapatnam, Shri B. Narasimha Patrudu – 65th Ward Corporator – GVMC & Mr. SrinivasaRao- Principal, ITI-Gajuwaka has inaugurated the Computer Lab at Pedagantyada, Gajuwaka Govt Model ITI. Vice President & Unit Head, Head CSR and DGM HR

- 80 Nos of Blankets to ITI Hostel Students have been distributed by Honorable Collector.

Benefitted **900** ITI Students

Science lab Inaugurated By TDP State President

- Shri Palla Srinivasa Rao – TDP State President & MLA Gajuwaka Constituency along with Mrs. L Chandrakala – District Educational Officer, Mr. P Srinivasa Rao – 65th Ward Corporator has inaugurated the Science Lab at ZP High School on 26th Sep 2024

- Mr. Gnanasundaram – VP & unit head along with Mr. JayaGopal Chathur- Head CSR & Mr. Srinivasa Rao – DGM – HR participated

- Shri Palla Srinivasa Rao in his address has thanked the Coromandel management for recognizing the need of the students and appreciated Vizag Unit for its passion towards executing projects in the field of Education and Community development

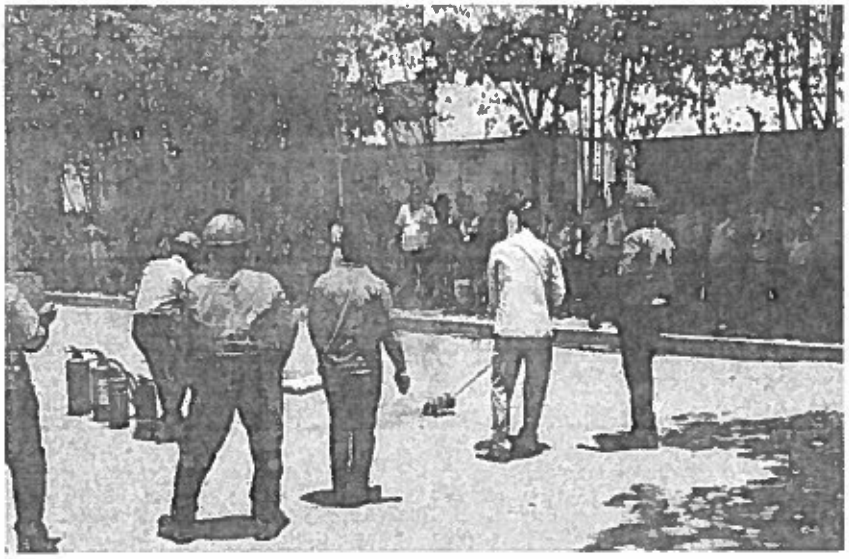
Benefitted **1600** school children

Girlchild Scholarship Distribution

- Organised Coromandel Girlchild Scholarship
- The Program Chief guest Executive Chairman Shri Arun Alagappan and senior leadership
- Total 79 scholarship we provided 22 Bicycles
- Children and parents felt very happy

National Fire Safety Week

- As part of National Fire Safety Week Coromandel conducted Awareness sessions and Fire equipment's demo session at ZP High school Mindi.
- Total 125 children & teachers got benefited.
- Prize distribution also done by the Coromandel officials



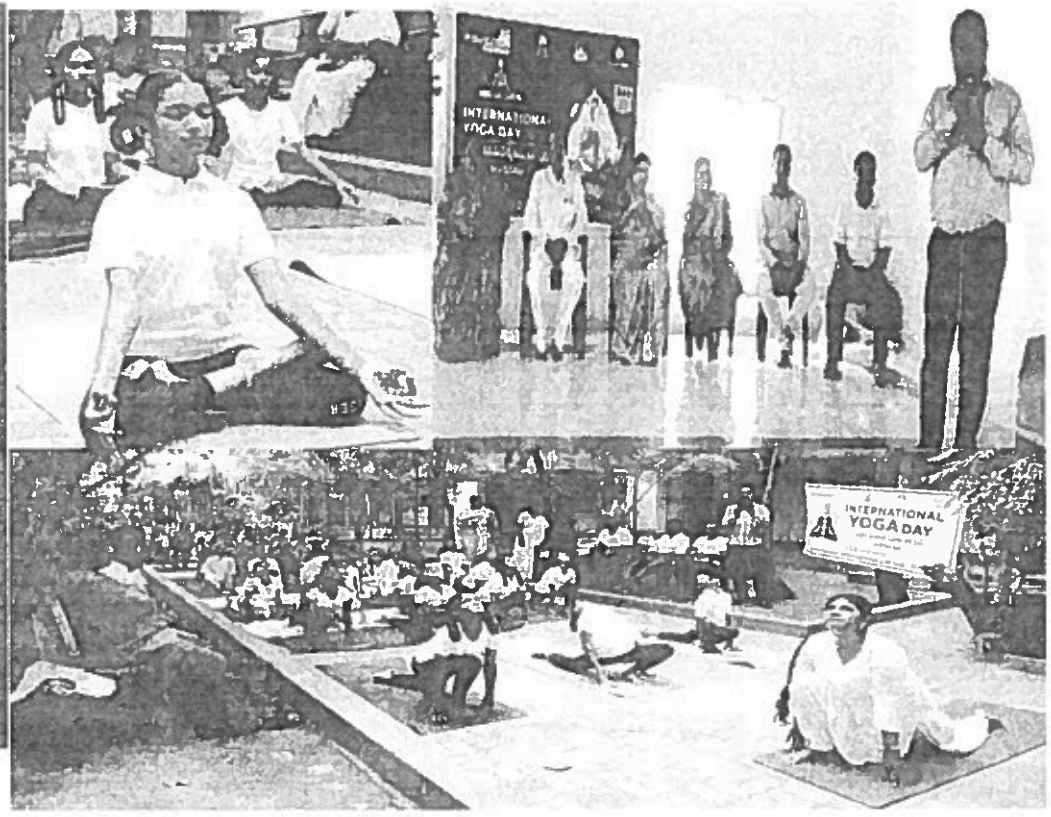
Infra Support to the Govt. Schools

- We handed over tables, almirahs and chairs to 5-GVMC Primary School,4 Govt High schools and 5-Anganwadi Centre's to enhance infrastructure facilities.
- Teachers & Community Members participated and expressed their gratitude to Coromandel.

1.Chairs
2.Tables
3.Almirah

International Yoga Day Celebrations 21St June 2024

- Coromandel organized International Yoga Day on June 21, 2024, at ZP High School, Mindi.
- where 150 children participated. Another Yoga Day celebration occurred at Pilakavanipalem Community, with 78 women participated
- The event aimed to increase awareness of the advantages of engaging in yoga and to foster its comprehensive approach to promoting health and well-being.
- The event was implemented by Pathriji Pyramid Spiritual Trust, Visakhapatnam.



Teachers' day celebrations

- We organized Teacher's Day celebrations on September 5, 2024, at CRC.

- A total of 110 teachers participated in the event, which was attended by Chief Guests Mandal Revenue Officer (MRO) Mrs. Tarakeswari Garu, Head HR R. Srinivasarao Garu and the Coromandel Ladies Association (CLA).

- Mr.Balaji garu explained and aware school First Aid Kit, school safety awareness. Felicitated 12 best teachers

- The program was successfully completed. Our COO Mr. Amir Alvi and Unit Head Mr. Gnanasundaram also participated in the event, offering their encouragement and best wishes to all the teachers.

MEO, teachers and the MRO were very pleased to attend the event and expressed their appreciation to Coromandel Management.

Honourable Governor of AP has given an appreciation award to Coromandel

- The District Administration Organised Divya kala Mela at AU marine Ground Visakhapatnam on 19th Sep 2024.

- Honourable Governor of AP has given an appreciation award to Coromandel international Limited in recognition for providing wheel chairs to physically challenged persons in the presence of Honourable Union minister of social justice and empowerment Dr.Veerndher Kumar guest of honor,I, Mr Bharath Member of parliament Visakhapatnam.Mr.Baburao Rajyasabha and District collector & Magistrate Shri Harendhira Prasad

- The award has been received by VP & Head Manufacturing M Gnanasundaram, Head CSR Jayagopal and Head HR Srinivasarao

Women Livelihood stall 21st Sep 2024

- MD sir Visited & Observed the Community women stall like jute bags/jewellery making/Margam design and Beauty parlour, and MD sir appreciated women livelihood project.

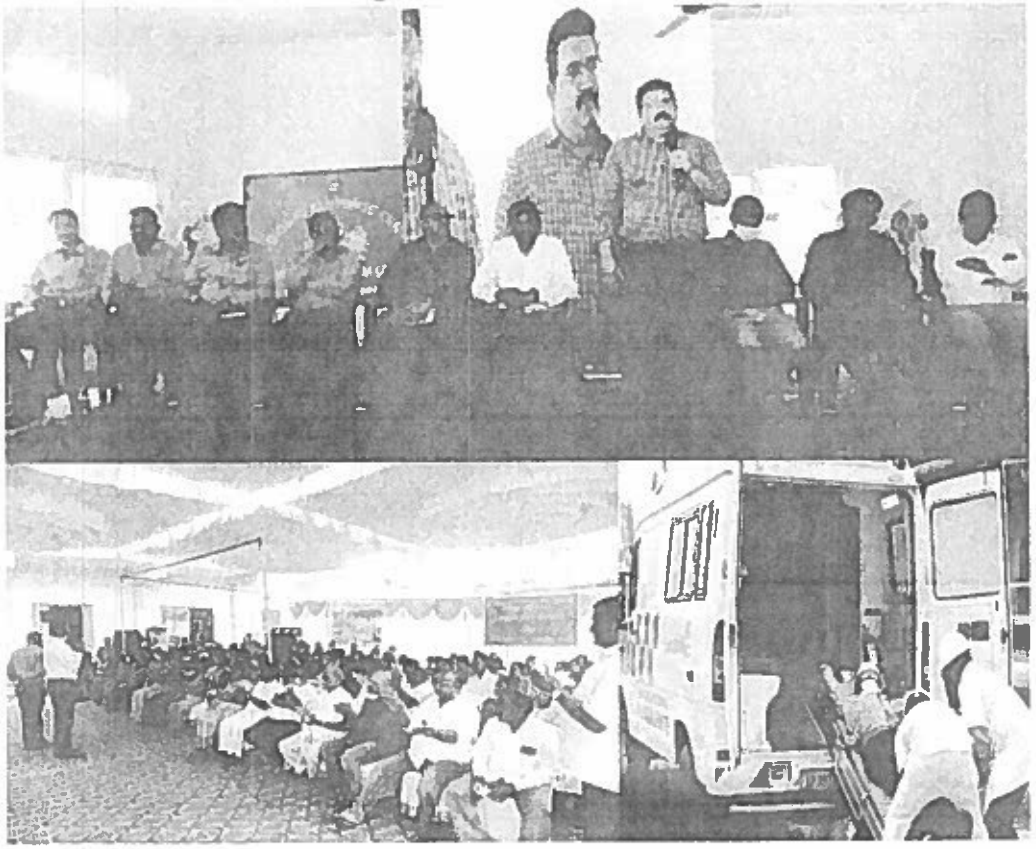
- Total selling 3800/-Jute bags and Jewellery materials

Women Livelihood Training Certificate Ceremony

- As part of Community development Coromandel initiated Women livelihood trainings.
- Like Maggam work, Jute bag work, Handmade jewellery, Beautician course trainings
- And 4 batches we trained total 120 women.
- Distributed Certificates and training kits to the all women
- 1st April 2024

Offsite Mock drill @ Pilakavanipalem

- We Organised Offsite Mock drill on 28th June 2024 at Pilakavanipalem village.
- Participated District Authorities and the factories department officials commended our efforts towards a successful demonstration in our systematic emergency preparedness and capabilities.
- Total participated village peoples 250

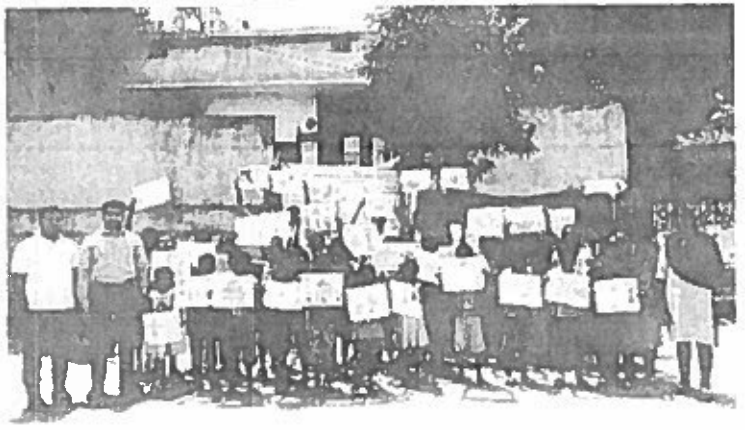


Wheelchairs Hand overering to District Administration

- The handing over ceremony took place at our Coromandel Recreation Centre in Visakhapatnam Manufacturing Unit, where we honoured to have esteemed guests Mrs.Ramamani, Assistant Director of Industries, and Ms. Sunita, Industrial Promotion Officer in presence of Mr. Amir Alvi, President & Head of Manufacturing, along with Mr. M. Gnanasundaram, HODs and representatives from our HR department.
- the 100 Wheelchairs were branded with Coromandel logo and post-election, they will be used in the Public Health Centres.

World Environment Day Celebrations 5th June-2024

- As part of our CSR initiative for World Environment Day,
- we organized celebrations at Mulagada and Yedurivanipalem to mark the occasion, saplings
- were planted on the Mukhyamantri Arogya Kendra premises with the participation of our employees and Hospital staff to foster eco-friendly practices
- and raise awareness, cloth bags were distributed to the community members
- And also we Organised Drawing competition on environment day related to community Children at Yedurivanipalem.



Eco Vizag cloth bags launched by GVMC Commissioner

- Coromandel's social responsibility initiatives are inspiring," said GVMC Commissioner Sampath Kumar. "The use of cloth bags for saving the environment is very important. The commissioner inaugurated 30,000 bags under the 'Swach Sarvekshana 2024 ECO Vizag' initiative by Coromandel Fertilizers in his chamber. In this regard, Coromandel's Vice President M. Gnanasundram first presented a flowering tree and congratulated him.
- As part of their social responsibility, they are giving 15,000 bags to GVMC, and the remaining will be distributed for free to the public in various markets and the city. Speaking on this occasion, the commissioner expressed his determination to make Vizag the cleanest city in the country for Swach Sarvekshana 2024. He emphasized the importance of public collaboration and the need to raise awareness among people to use environmentally friendly products, praising Coromandel for providing these bags. The event was attended by Coromandel Head HR R. Srinivasa Rao,Senior Manager HR K. Srikant,PR Consultant U. S. Sharma and me.

World Breastfeeding week

- we Organised world Breastfeeding celebration Month in August, our CMO Dr. Uday and field Health workers delivered an informative health talk to community breastfeeding mothers, emphasizing the significance of breastfeeding in providing optimal nutrition, boosting the immune system, and promoting mother-child bonding

1. Importance of breastfeeding for optimal growth and development
2. Essential diet and nutrients for mothers to produce high-quality breast milk:
3. Balanced meals rich in whole foods
4. Hydration and electrolyte intake
5. Foods that support lactation (e.g., oats, fenugreek)
6. Potential risks of not breastfeeding:
7. Hampered growth and development
8. Delayed uterus involution (return to pre-pregnancy size)
9. Increased risk of infections and diseases

- Dr. Uday addressed various questions and concerns raised by the community, providing clarity and reassurance on common issues. This empowered the community with knowledge and confidence to embrace breastfeeding and ensure the best possible start for their little ones
- **Initiative in August 2024 no of beneficiaries : 30**

Road Safety barricades Handed over to Commissioner of Police Visakhaptnam

- 50 road safety barricades have been handed over by Mr M Gnanasundaram Vice president & Head Mfg. Coromandel international limited to Shri Shanka brata Bagchi, Commissioner of police Visakhapatnam

- Our Head HR Mr. R Srinivasa Rao garu, Circle inspectors Mr.Koteswarao garu from Gajuwaka, Sub inspector Mr. Apparao garu from Malkapuram and Deputy Manager-CSR Mr. S Venkataramana have participated in the program.

- Unit Head Explained about the CSR initiatives and Public Relations which includes modernization of Police fitness Centre, Renovation of Malkapuram Police Station etc. Also explained about the rigorous safety standards followed at Coromandel and shared the proud moment of achieving Prestigious International safety award of 'Sword of Honour' from British Safety Counsel, United Kingdom.

- Commissioner of Police appreciated our Coromandel management for extending the support to the society.
- Initiative on 12th Aug 2024

Support to the Anganwadi's by Coromandel Ladies Association

- Our Coromandel Ladies Association visited the Anganwadi centre at Mulagada Village
- Handed over essential materials to enhance their facilities.
- Additionally, we established a Nutrition garden to support their needs
- Teachers, Parents and ICDS Supervisor Ms. Varalakshmi felt very happy ,Total benefitted children is 20.

Library for children supported by CLA

- Coromandel Ladies Association donated to Library Cupboards & Books to ZP High school Mindi
- Library set up handed overed by MD sir & COO sir

- Children & Teachers felt very happy

Total children Benefitted: 684

Employees volunteerism

Month	No. Of Employees	Voluntary Hours	CLA	Voluntary Hours
Apr-24	33	91	10	15
May-24	18	18	0	0
Jun-24	44	124	7	14
Jul-24	12	26	10	10
Aug-24	43	80	13	26
Sep-24	46	77	10	20

Coromandel
FUTURE POSITIVE

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

EHS/APPCB/2024-112 **Dated:28/10/2024**

To,

SHRI N.S. MURALI, IFS
Inspector General of Forests
Ministry of Environment, Forest and Climate Change,
Integrated Regional Office, Vijayawada
Green House, Gopalareddy Road, Vijayawada - 520010, Andhra Pradesh

Dear Sir,

Sub: Submission of Raw Water average consumption data for the last six months - Reg.

Ref: i) EC - SA PA TANKS WHARF (F.No. 11-35/2015-IA-III, Dated 27 june2017.

This is bringing to your kind information that In reference to the Environment Clearance (EC) for SA PA Tanks Wharf (F.No. 11-35/2015-IA-III, dated 27 June 2017), we are submitting the water average consumption data for the last six months. The wharf facility has minimal Raw water requirements, primarily for drinking, sanitation, and green belt maintenance. Water is supplied by the adjacent main plant, with average daily consumption ranging from 10 to 15 KLD.

This is for your kind information & Records.

Thanking you,

Yours faithfully,

For **COROMANDEL INTERNATIONAL LIMITED**

Gnanasundaram M
Vice President & Head Manufacturing.

NAG/DNR 28/10

RN541808657IN IVR:8278541808657
RL MALKAPURAM S.O <530011>
Counter No:1.29/10/2024.11:23
To:N S MURALI IF.INSPECTOR GENERA
PIN:520010, Venkateswarapuram S.O
From:COROMANDEL .POST BOX NO 1116
Wt:14gms.REG=17.0
Amt:25.96.Tax:3.96.Amt.Paid:26.00(Cash)
<Track on www.indiapost.gov.in>

Registered Office : Coromandel House, 1-2-10
Sardar Patel Road, Secunderabad - 500 003
Telangana, India

Tel : 91-40-27842034 / 27847212
Fax : 91-40-27844117
E-mail : mail@coromandel.murugappa.com

murugappa

Coromandel
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Coromandel International Limited
Post Box No. 1116, Sriharipuram, Malkapuram Post
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Thanking you,

Yours faithfully,

For **COROMANDEL INTERNATIONAL LIMITED**

Gnanasundaram M
Vice President & Head Manufacturing.

NAG/DNR 28/10

Registered Office : Coromandel House, 1-2-10
Sardar Patel Road, Secunderabad - 500 003
Telangana, India

Tel : 91-40-27842034 / 27847212
Fax : 91-40-27844117
E-mail : mail@coromandel.murugappa.com

murugappa

Annexure-5

Environmental Control Measures
Coromandel International Limited
Visakhapatnam

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	Harithavanam 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**

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 – 3rd 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	3rd 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 7th 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

BEFORE THE YEAR 2000			
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**

Coromandel
FUTURE POSITIVE

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

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

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

File No: 20042/VSP/MSB/2023
Date: 15/11/2023

Sir/Madam,

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.

-- x --

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 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
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 Hyderant 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:

Sl	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 :

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	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:

Sl	Fire Safety System	Proposed as per PNOC	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 Hyderant 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

2. 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.

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
6	Internal Staircases	0 No. - 0.00 Meters
7	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	554.34	Industrial	55	55	0.55	0.00
	Total	554.34		55			

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	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	-- /--	-- /--

- **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 Hyderant 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

2. 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.

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
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 Hyderant 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

2. 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.

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
8	Internal Staircases	0 No. - 0.00 Meters
9	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	1595.8	Industrial	159	159	1.59	0.00
	Total	1595.8		159			

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	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 Hyderant 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

2. 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.

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
10	Internal Staircases	0 No. - 0.00 Meters
11	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	1144.8	Industrial	114	114	1.14	0.00
	Total	1144.8		114			

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	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 Hyderant 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

2. 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.

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
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:

Sl	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 :

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	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:

Sl	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 Hyderant 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

2. 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.

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
13	Internal Staircases	0 No. - 0.00 Meters
14	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	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 Hyderant 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

Copy to District Fire Officer concerned

Copy to Assistant District Fire Officer concerned

Annexure -8

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, कवडीगुढा
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**

विषयान्तयर्गत 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 भिन्ना /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 समस्त् दस्तावेजों को अनुज्ञप्ति की वैधता समाप्ती् 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 नही 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.

O/C

Coromandel
FUTURE POSITIVE

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

RN541800070IN IVR:R27854180007D
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>

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

A.P. Pollution Control Board · Visakhapatnam · A.P. Pollution Control Board · Zonal Office,
27/9/24

Thanking you

Yours faithfully
For Coromandel International Limited

M. Gnanasundaram
VP & Head - Manufacturing

A.P. Pollution Control Board · Regional Office, Visakhapatnam ·
27.9.24

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

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

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 m^3/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 01st April 2023	MT	0
2	Received Qty.	MT	262019
3	Consumption Qty.	MT	**262019**
4	Closing stock on 31st 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 01st April 2023	MT	21057.985
2	Received Qty.	MT	433679.8
3	Consumption Qty.	MT	**431165.8**
4	Closing stock on 31st 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 01st April 2023	MT	13446.697
2	Received Qty.	MT	83808
3	Consumption Qty.	MT	**94910.02**
4	Closing stock on 31st 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 01st April 2023	MT	20.07
2	Received Qty.	MT	576.718
3	Consumption Qty.	MT	**585.328**
4	Closing stock on 31st 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 01st April 2023	Litres	9268
2	Received Qty.	Litres	0
3	Consumption Qty.	Litres	**6626**
4	Closing stock on 31st 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

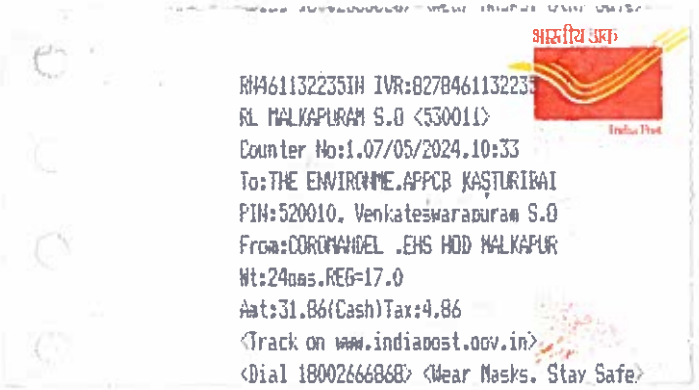
O/C

Coromandel
FUTURE POSITIVE

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

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,

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.

NAG/DNR

Encl. As above

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

Registered Office : Coromandel House, 1-2-10
Sardar Patel Road, Secunderabad-500 003
Telangana, India

Tel : 91-40-27842034 / 27847212
Fax : 91-40-27844117
E-mail : mail@coromandel.murugappa.com

murugappa

Coromandel
FUTURE POSITIVE

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Tel : 91-40-27842034 / 27847212
Fax : 91-40-27844117
E-mail : mail@coromandel.murugappa.com

murugappa

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	1165048	MT/Annum
		:	Sulphuric acid	861859	
		:	Phosphoric acid	370617	

Part A. To be filled by hazardous waste generators

1	Total quantity of waste generated category wise		:	**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
2	Quantity dispatched	(i) to disposal facility (Ramky)	:	**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
		(ii) to recycler or co-processors or pre-processor		1) Used lubricating oil/drained oil	14.020	KL
				2) Detoxified Containers and container liners	2348	No's
		(iii) Others		---	---	

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]

3	Quantity utilised in-house, if any -	:	**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
4	Quantity in storage at the end of the year –	:	**Name of the Hazardous waste**	**Quantity Storage**	
			1) Acid residues (Tank bottom sludge)	0	MT
			2) Sulphur muck (Sulphur sludge)	0	MT
			3) Spent Catalyst	15	MT
			4) Used lubricating oil/drained oil	0	KL
			5) Detoxified Containers and container liners	90	No's
			6) LSHS Sludge	0	MT
			7) Scrubbing sludge	25	MT
			8) ETP sludge	0	MT
			9) Off specified ,expired chemicals & lab	0	MT
			10) Glass wool	0	MT
			11) Insulation Puf	0	MT

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 –	:	Not applicable
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 –	:	Not applicable
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**

Place: Visakhapatnam.

Signature of the Occupier or Operator of the disposal facility

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/cm^{2}g 485 ^{o}C. High pressure & temperature steam turbine results in lower Specific Steam Consumption of 4.0 MT / MWH. Old Condensing turbine was medium pressure 31kgf/cm^{2}g 315^{o}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 M^3/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 nighttime.

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 Power 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**

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 – 3rd 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	3rd 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

BEFORE THE YEAR 2000			
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

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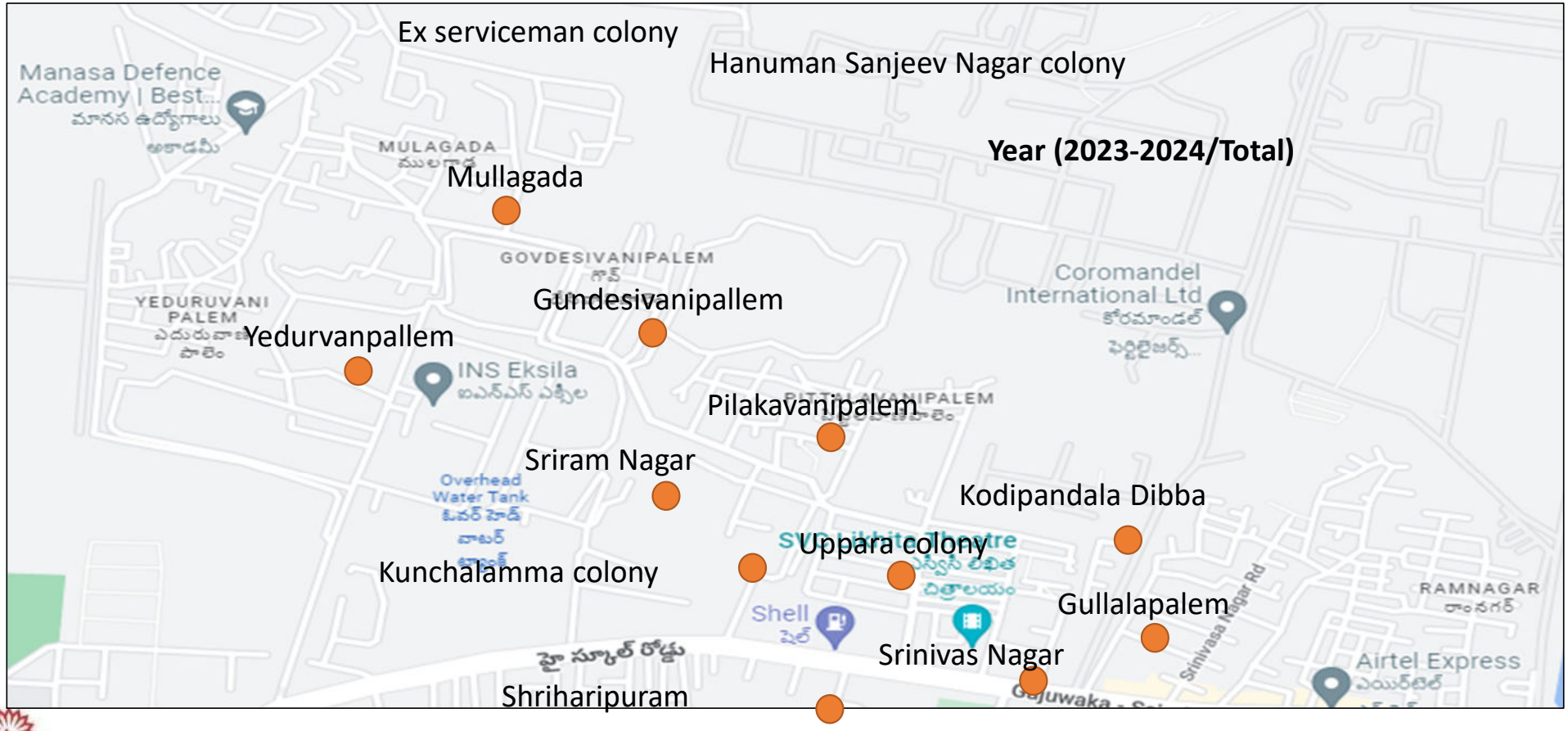
Coromandel

CSR
Annual report 2023-2024

Vizag

Mapping villages-Total bEN -217134



Total number of villages benefitted - 14

Total number of Schools benefitted - 9

Approved Vs Spent– 23-24

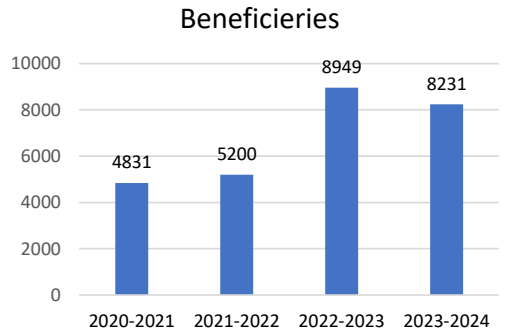
Spent Matrix

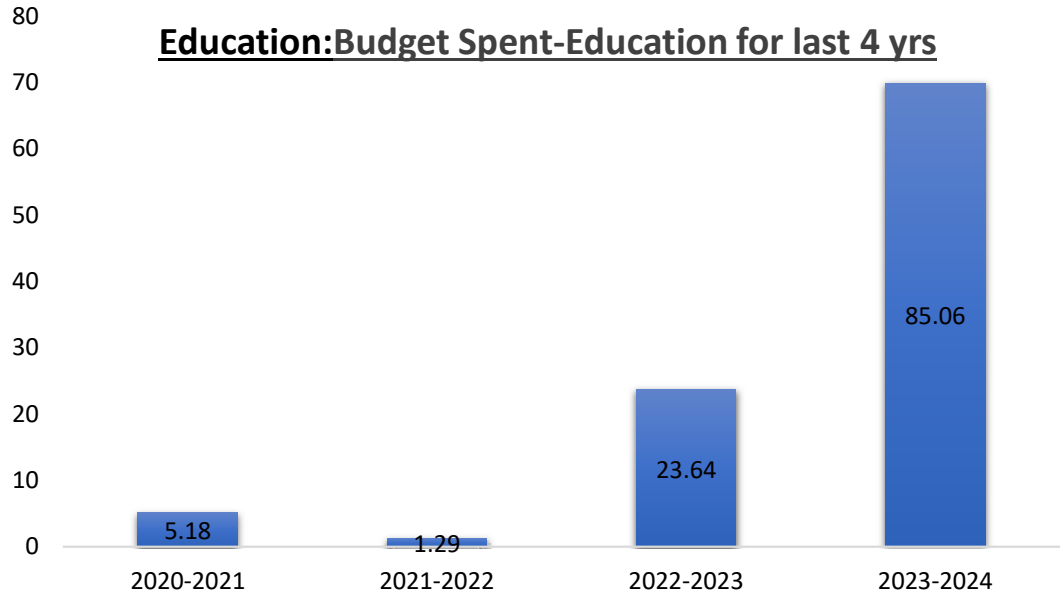
S.No	Domain	Spent (Lacs)
1	Community Development	133.00
2	Health	73.79
3	Education	85.67
	Total	292.46

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

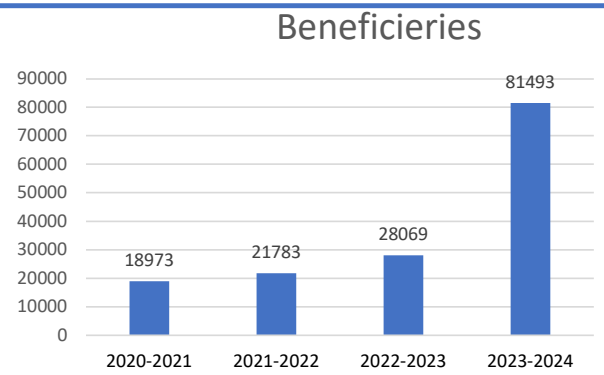


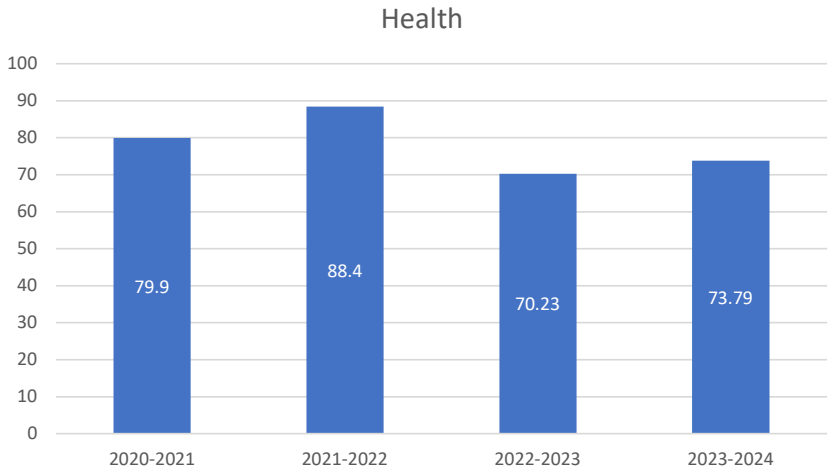


CSR Initiative-Health

Key Highlights of the last 4Years

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

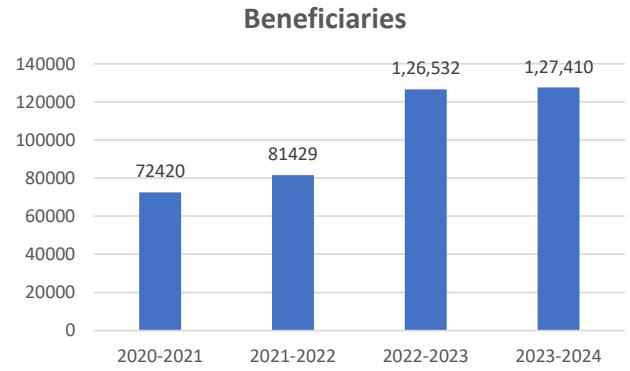


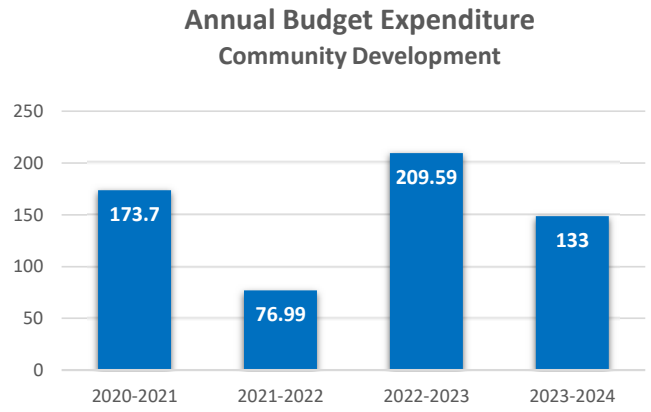


CSR Initiative-Community development

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





Coromandel Prayog Utsav

- Coromandel Proyog 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

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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

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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

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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,THYROIS 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 Anghanwades (Mulagada/Pilakavanipalem/Gullalapalem/Sriharipuram/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.






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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.

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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.

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Diabetic awareness Run

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

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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

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4 Community Open Gyms Established

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

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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

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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

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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

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Women's day celebrations

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

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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

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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

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Renovation of Social welfare Girls Hostels

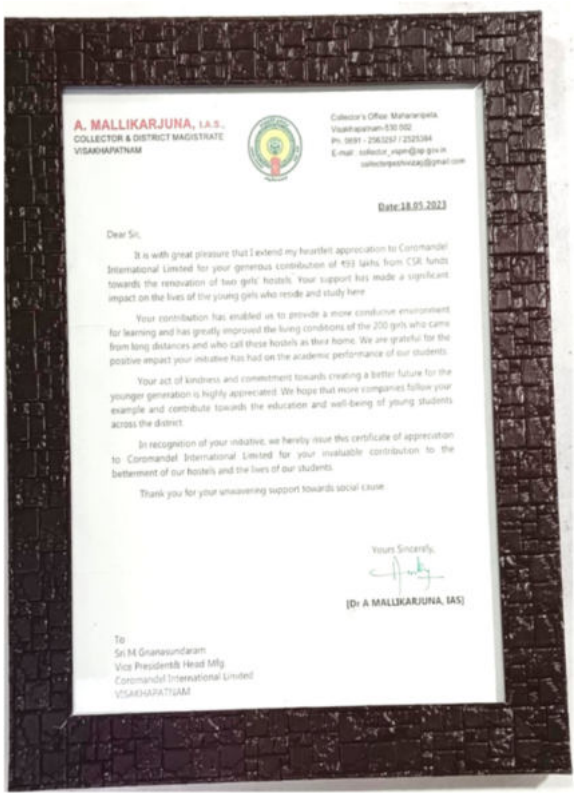
Dayal Nagar Girls Hostel

Nadupuru Girls Hostel

Social welfare Girls Hostels Inaugurated by District Collector


SCIENTISTS INVENTORS
LEADERS
WRITERS

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



A. MALLIKARJUNA, I.A.S.,
COLLECTOR & DISTRICT MAGISTRATE
VISAKHAPATNAM

Collector's Office, Maharanipeta,
Visakhapatnam-530 002
Ph: 0891 - 2563257 / 2525384
E-mail: collector_vspm@ap.gov.in

Date:18.05.2023

Dear Sir,

It is with great pleasure that I extend my heartfelt appreciation to Coromandel International Limited for your generous contribution of ₹93 lakhs from CSR funds towards the renovation of two girls' hostels. Your support has made a significant impact on the lives of the young girls who reside and study here.

Your contribution has enabled us to provide a more conducive environment for learning and has greatly improved the living conditions of the 200 girls who came from long distances and who call these hostels as their home. We are grateful for the positive impact your initiative has had on the academic performance of our students.

Your act of kindness and commitment towards creating a better future for the younger generation is highly appreciated. We hope that more companies follow your example and contribute towards the education and well-being of young students across the district.

In recognition of your initiative, we hereby issue this certificate of appreciation to Coromandel International Limited for your invaluable contribution to the betterment of our hostels and the lives of our students.

Thank you for your unwavering support towards social cause.

Yours Sincerely,

(Dr A MALLIKARJUNA, IAS)

To
Sri M Gnanasundaram
Vice President& Head Mfg
Coromandel International Limited
VISAKHAPATNAM

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, Dhruba Jyoti Patil.

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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

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Thank You