

Dt:30.09.2024

Ref: CK:EHS:3.5:23

The Joint Director(S),
Ministry of Environment, Forest and Climate Change
Sub Office at Vijayawada
Green House, Gopalareddy Road, Vijayawada
Andhra Pradesh-520010.
eccompliance-ap@gov.in

Dear Sir,

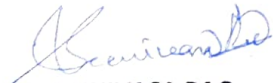
Sub: Environmental Statement (i.e. Form V) for the Financial Year 2023-24 - Reg.

Ref: Schedule A - Condition No: 05 of Consent Order No: APPCB/VSP/RJY/285/HO/CTO 2021
dated 07/03/2023, Valid up to 30.09.2026.

With reference to the above subject, we are herewith submitting Environmental Statement for the financial year ending 31st March 2024 in the prescribed Form – V along with necessary enclosures for your kind information and records.

Thanking you,

Yours Faithfully,
For **COROMANDEL INTERNATIONAL LIMITED, KAKINADA**


CH. SRINIVASA RAO

Senior Associate Vice President & Head Manufacturing



Encl: a/a.

Cc to:

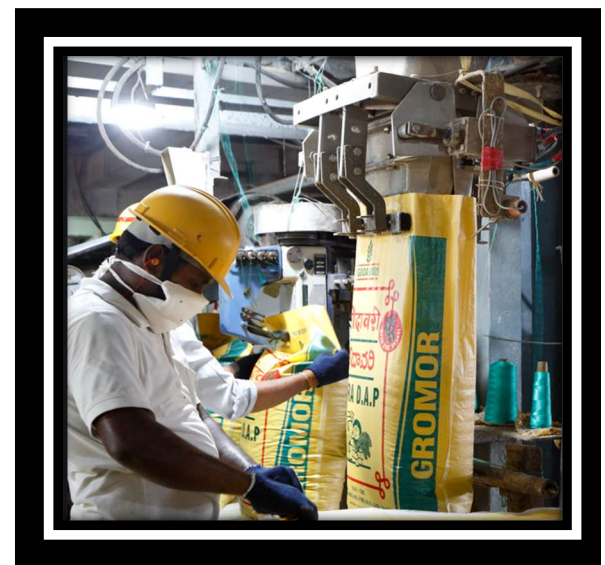
- Member Secretary APPCB
- The Environmental Engineer, A.P. Pollution Control Board, Regional Office, Plot no.2-2, Ramanayyapeta, Industrial Area, Kakinada-533 005.

ENVIRONMENTAL STATEMENT



SEPTEMBER 2024

**COROMANDEL
INTERNATIONAL LIMITED
KAKINADA**



ENVIRONMENTAL STATEMENT

FORM-V
(See Rule 14)
Environmental Statement for the Financial Year ending 31st March 2024.

PART-A

(i)	Name and address of the Owner / Occupier of the industry, operations or process. Telephone Nos. Fax No.	Sri S Sankarasubramanian Managing Director & Chief Executive Officer Coromandel International Limited, Coromandel House, 3 rd Floor, 1-2-10, Sardar Patel Road Secunderabad-500003. 040-27841368 040-27701541
(ii)	Industry category-- Primary/ Secondary	Primary – Fertilizer – Red - Large
(iii)	Production Capacity	1) Di-Ammonium phosphate and 2) NPK Fertilizer. Total Quantity 20.5 Lakhs tons per annum (All the three trains (A, B, C) put together).
(iv)	Year of establishment	1988
(v)	Date of last environmental Statement submitted	29.09.2023

- **Water and Raw Material Consumption**

- **Water Consumption M³/d (Average): 1534 m³/day**

Process : 850 m³/day
Cooling : 60 m³/day
Domestic@ : 624 m³/day

@ includes Green Belt, Potable water, CSR activities and other purposes.

Name of the Product	Water Consumption per unit of products during the	
	Previous financial year 2022-23	Current Financial Year 2023-24
NP/NPK Fertilizer	0.264 m ³ /MT	0.291 m ³ /MT

(II) Raw Material Consumption:

Name of the Raw material	Name of products	Consumption of raw materials per unit of out put. (Kg / MT of product)	
		During the current Previous financial year (2022-23)	During the current financial year (2023-24)
Phosphoric Acid 100% P ₂ O ₅	DAP	450.60	462.6
	20:20:0	200.30	201
	14:35:14	343.90	352.3
	10:26:26	261.90	262.4
	DAP'Z	-	-
	28:28:0	283.20	281.7
	17:17:17	-	-
	10:26:26 Z	-	262
	12:32:16	-	-
	15:15:15	149.20	149.8
	14:35:14 Z	201.9	-
	Groshakti Plus	351.0	-
Anhydrous Ammonia	DAP	217.4	218.6
	20:20:0	176.4	186.4
	14:35:14	166.3	168.3
	10:26:26	118.2	121.8
	DAP'Z	-	-
	28:28:0	136.9	136
	14:35:14Z	-	-
	10:26:26 Z	-	123.6
	12:32:16	-	-
	15:15:15	147.6	166
	16:20:0	172.60	-
	Groshakti Plus	173.00	-
Sulphuric Acid	DAP	32.30	35.3
	20:20:0	267.10	300.6

	14:35:14	37.90	37.6
	10:26:26	20.10	18.8
	DAP'Z	-	-
	28:28:0	34.10	40.5
	14:35:14 Z	-	-
	10:26:26 Z	-	16.4
	12:32:16	-	-
	15:15:15	244.20	296.4
	16:20:0	252.80	-
	Groshakti Plus	33.10	-
Name of the Raw material	Name of products	Consumption of raw materials per unit of output.(Kg/MT)	
		During the Previous financial year (2022-23)	During the current financial year (2023-24)
MAP	DAP	258.0	-
	20:20:0	1.40	-
	10:26:26	0.70	-
	14:35:14 Z	158.0	-
Murate of Potash	17:17:17	-	-
	14:35:14 Z	239.3	239.3
	10:26:26	444.7	444.4
	12:32:16	-	-
	15:15:15	255.7	254.3
	10:26:26Z	-	444.4
	Groshakti Plus	239.3	-
Ammonium Sulphate	DAP	2.30	6.5
	20:20:0	212.7	159.9
	10:26:26	0.90	0.8
	14:35:14	3.60	3.2
	26:20:0	104.1	-
	28:28:0	0.5	2.8
	15:15:15	98.4	14.7

Pollution Discharged to Environment per unit of output
(Parameters as specified in the Consent issued by APPCB)

2023-24 WATER

Pollutants	Quantity of pollutants discharged (mass/day)	Concentration of pollutants in discharges (mass/Volume)	Percentage variation from standards with reasons	
			Standards	% Variation (+/-)
PH	Zero Liquid Discharge Plant	7.68	6.5 to 8.0	Within the range
TSS		23	100 mg/L	-77.16
Oils& Grease		<1.0	10 mg/L	-100
BOD		16	100 mg/L	-84.5
COD		38	250 mg/L	-84.94

15 m³/Day is the water quantity generated from intermittent bleed off from cooling tower, boiler blow down and Softener's regeneration. The water is collected in respective pits and pumped back to A B C Trains for use in process. No liquid effluents are discharged from the process plant.

Dedicated scrubbers with sufficient height of stacks were provided as per the requirement. As our plant is designed for ZLD, all the process effluents, washings generated is collected in a separate sumps in respective trains. PTZ cameras and a flow meters with totalizer are provided at collection sump area to ensure that how much quantity of effluents used back into the process. Cameras and flow meter are connected to the APPCB server for continuous monitoring.

- **Air:**

2023-24 DAP PLANT STACK:

Pollu tants	Quantity of pollutants discharged (MT/day) *			Concentration of pollutants in discharge (mg/Nm ³)			Percentage variation from standards with reasons.			
	Train			Train			Stan- dards mg/Nm ³	% Variation (+/-)		
	A	B	C	A	B	C		A	B	C
NH ₃	0.45	0.45	0.63	92.94	92.62	87.48	300	-69.02	-69.13	-70.84
Fluoride	0.007	0.003	0.004	1.41	0.55	0.52	<10	-85.90	-94.50	-94.80
PM	0.25	0.26	0.32	52.59	53.44	43.83	115	-54.27	-53.53	-61.89

Based on the process plant running hours for the entire year of each train and considering stack gas volume of 200934 Nm³/Hr for A&B Trains and 300118 Nm³/Hr for C Train while calculating the quantity of pollutants discharged per day in each stream of the fertilizer complex plant.

II. PRODUCT HANDLING PLANT:

POLLUTANTS	Concentration of pollutants in discharge (mg/Nm ³)			Percentage variation from standards with reasons	
	Bag. Plant 2 Stack-II	Bag.Plant-3 Stack-III	Screen House	Standards (mg/Nm ³)	% Variation (+/-)
SPM	54.14	50.30	51.15	115	Stack-II: (--62.26.96%) Stack-III: (--57.845%) Sc. House (--58.82%)

III. Pollution load of our DAP Plant per ton of finished product for the year 2023-24.

Sl. No.	Description	Load in Kg. Per MT of finished Product.
1.	Ammonia	0.247
2.	Fluorine	0.002
3.	PM	0.134

Hazardous Wastes

(As specified under Hazardous Wastes/Management and Handling Rules, 1989)

Hazardous Wastes	Total Quantity in liters during the	
	Previous financial year 2022-23	Current financial year 2023-24
a. From process **	3000 Liters	2855 Liters
b .From Pollution Control facilities	Nil	Nil

** Used lubrication Oils are the only hazardous waste generated from the plant and disposed to authorised re-processor M/s Zen Lubes, Visakhapatnam.

Solid Wastes

Source	Total Quantity during the	
	Previous financial year 2022-23	Current financial year 2023-24
a) From process	Nil	Nil
b) From pollution control Facilities.	Not Applicable	Not Applicable
c) i) Quantity recycled or re-utilised within the unit in MT. @	i) 10.13 (WTP Clarifier Sludge)	i) 10.96 (WTP Clarifier Sludge)
ii) Sold	ii) 1.49 MT (E waste)	ii) 0.6 MT (E waste)
iii) Disposed	iii) 0.10 MT (Battery waste) 0.015 MT (Bio-medical waste)	iii) 1.705MT (Battery waste) 0.015 MT (Bio-medical waste)

The solid waste generated in the raw water treatment plant, is the mud settled in the clariflocculator due to addition of coagulation agents lime and alum for turbidity removal in the raw water. The recovered solid waste is used for green belt development.

PART – F

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

Only hazardous waste generated in the Plant premises is Used Oil. An amount of 2855 litres has generated for the financial year 2023 -2024. The generated used oil is disposed to A.P Pollution Control Board authorised re-processor M/s Zen Lubes, Visakhapatnam.

The solid waste generated in the raw water treatment plant, is the mud settled in the clarifloculator due to the addition of coagulation agents' lime and alum for turbidity removal in the raw water. It basically constitutes fine mud particles with coagulation agent lime powder will be collected in clarify blow-down pit. 10.96 MT of sludge is removed during this year from the clarifloculator used for green belt development as manure.

PART – G

Impact of the Pollution Control measures taken on conservation of natural resources and on the cost of production. Due to effective process control measures for conservation of natural resources in the plant, the following reduction in the specific consumption norms were achieved.

1. Coromandel, Kakinada makes use of solar energy as a non-source of energy. We have a solar water heating facility for the Boiler feed water. This helps in reducing natural gas consumption for preheating the boiler feed water. The temperature of the solar water heater outlet will be up to 80degrees C during mid-day hours, producing 120000 liters per day.

2. Specific water consumption in FY 23-24 was 0.291 m³ per metric tonne of product.

Effective measures are in place as a part of IMS systems to ensure that the energy used is effectively utilized in the plant premises, thereby conserving the natural resources. Placed LED lights in most of the places to ensure conservation.

4. The emission levels through stacks are maintained well below the PCB stipulated limits as indicated under Part-C, with the implementation of Plant trip interlock. This system was incorporated for Ammonia release through stacks by 3 level engineering controls High-level Alarm at 200 mg/Nm³. PR (Pipe Reactor) trips at 250 mg/Nm³ and Plant trips at 300 mg/Nm³. So as to ensure no abnormal release of ammonia into the atmosphere which the way below the PCB norms.

The plant has identified the time-bound objectives under ISO 14001: 2015, ISO 45001:2018 and ISO 9001: 2015 from time to time and implements the same for continual improvement of environmental performance and also to conserve natural resources.

Due to the efforts put up by the Company, towards improved efficiency and reduction in natural resources conservation has bagged the following prestigious awards for the last several years.

YEAR	AWARDS & ACCOLADES
23-24	Kakinada site won 8 Gold & 3 Silver awards at CCQC Vizag chapter conducted in September 2023.
23-24	Kakinada site won 1 Gold & 1 Silver awards at 37th National Convention on Quality Concepts – 2023 (NCQC Nagpur) conducted in January 2024.
23-24	Kakinada site won 2 Platinum, 2 Gold & 1 silver awards in CII National Competition 2023 Poka Yoke held in September 2023.
23-24	Kakinada site won 1 Platinum & 1 Gold award in CII National Competition 2023 Six Sigma competition held in September 2023.
23-24	QA Laboratory accredited by National Accreditation Board for Testing and Calibration Laboratories (NABL).
23-24	Kakinada unit received certificate of appreciation for “ ESG & Wellbeing Out of Waste ” from M/s. ITC for the responsible way of recycling the Paper Waste 8,420 Kgs equivalent to 126 trees and 0.72 MT of CO2.
23-24	On 20.12.2023, Coromandel-Kakinada unit has received “ Kalinga Safety Excellence Award – Platinum Category ” for the year 2022 at the National Safety Conclave-2023 held in Bhubaneswar.
23-24	Kakinada Unit received Prestigious BRITISH SAFETY COUNCIL- FIVE STAR RATING on 01.03.2024 with a score of 92.68%.
23-24	On 06.12.2023, Coromandel-Kakinada unit has received “ FAI Environment Protection Award in the NP/NPK fertilizer plants without captive acid category” for the year 2022-23. The award was presented during the FAI annual seminar in New Delhi.
2022-23	Kakinada Unit declared -Significant achievement in HR Excellence by CII National HR Excellence Awards 2022.
2022-23	Great Place to Work Certified.
2022-23	Received Gold Award form Indian Manufacturing Excellence Award (IMEA) on prestigious M/S FROST & SULLIVAN’S manufacturing excellence model (on 1200 max).
2022-23	The organization is adjudged for Kalinga Safety Excellence Award – Platinum Category for the Performance Year 2021.
2021-22	Bagged “Silver Award” in the 4th SHE Safety innovation competition conducted by ABK-AOTS DOSOKAI, Chennai.
	Received Gold Award for “Excellence in EHS practices & Sectoral Topper in Chemical & Fertilizers” from CII- Chennai.
	Adjudge the Kalinga Environment Excellence Award in the Five Star Category for the year 2021 by IQEMS India, Bhubaneswar, Odisha.
	5S Model Plant award by ABK-AOTS, Chennai.
	CII HR Excellence Strong Commitment awards.

2020 – 21	Received Appreciation letter from Collector & District Magistrate towards the renovation of the critical yards in Govt. Hospital, Kakinada.
2019 -20	Coromandel has received “Business Excellence Platinum Award” from CII.
	Coromandel has received “5S Model Award” from ABK, AOTS, first in Fertilizer industries.
	Coromandel has received “Par Excellence for Quality Circles” from QCFL,UP.
	Coromandel, Kakinada awarded with “Andhra Pradesh Biodiversity Award” on conservation of Wild Spices by A P State Biodiversity Board. Vijayawada.
2018-19	“Best Management Award” by Government of Andhra Pradesh.
	“EHS Excellence Award” 4 Star rated received from CII, Chennai.
	“Environmental Best Practices Award” received from CII, Chennai.
	Coromandel, Kakinada has received an Appreciation certificate for “Outstanding service with a commitment” from the District collector during republic day celebrations for conducting District Offsite emergency mock drill in a successful and safe manner.
	Coromandel, Kakinada received the “Strong Commitment Award for Model 5S Company” from Kanda Sen, ABK, AOTS.
2017-18	“Best Management Award” by Government of Andhra Pradesh.
	EHS Excellence Award 4 Star rated from CII, Chennai.
	Coromandel, Kakinada awarded with “India Biodiversity Award” on Conservation of Wild Spices by National Biodiversity Board, Government of India.
	CSR Times Award for Best Corporate in Green and Environment Stewardship for its CSR initiative on “Coromandel Birds Paradise”.

PART – H

Additional measures / investment proposal for environmental protection including abatement of pollution; prevention of pollution:

Energy Saving Details:

- 1) REPLACEMENT OF RMS GODOWN 1 & 2 LIGHTS AND CABLES.- Energy Saving- Rs. 14 Lakhs
- 2) REPLACEMENT & RELOCATION OF APFC PANELS IN A-TRAIN Energy Saving- Rs.35 lakhs
- 3) Replacement of Package Acs in Technical Building-Environment (ODS gas elimination) Rs. 10 Lakhs
- 4) REPLACEMENT OF PACKAGE ACS IN AB-TRAINS CONTROL ROOM & SPLIT ACS REPLACEMENT IN CRITICAL AREAS- Environment (ODS gas elimination). Rs. 10 Lakhs
- 5) REPLACEMENT OF DAMAGED RCC STEET LIGHT POLES IN ROADS - Energy Saving Rs. 15 Lakhs

ENVIRONMENT PROJECT EXECUTED in Financial Year 2023_24:

S No	Brief details of Environmental measures implemented	Spent in INR Lakhs
1	Procured Road Sweeping Machine	26
2	Weather Monitoring Station	3.0
3	REPLACEMENT OF AAQMS ANALYZERS of PM10 & PM2.5 at TXR. To monitor ambient pollutant levels and to increase the availability of ENV monitoring.	26
4	ADDITIONAL AMMONIA DETECTORS To detect ammonia gas emissions and to take actions to control emissions.	5.6
5	Water sprinkling on roads with road tanker.	3.0
6	Greenbelt Maintenance Cost.	43.62
7	OCEMS- AMC Cost.	0.75
8	CAAQM-AMC Cost.	3.21
9	ENV Monitoring Cost.	4.34
10	STP Operational Cost.	6.41
11	Solar Water Heater Operational Cost	2.94
Total		119.27

Health Checkups during 2023 -24

S. No	Date	Type of Health checkup	Beneficiary type	Number of beneficiaries
1.	April '23	Bone mineral density(BMD) Screening camp	Employees	100
2.	May '23	Heat stress awareness talk(PEP Talk)	Employees, contract workmen	250
3.	June'23	Health Awareness session on Ergonomics	Employees	30
4.	July '23	Blood Donation camp	Contract workmen	30
5.	August '23	Blood Donation camp	Employees	40
6.	Sep '23	Basic First aid Refresher Training	Employees	30
7.	Nov '23	Health awareness session on mental well being	Employees	40
8.	Nov '23	Health awareness session on Diabetes	Employees, contract workmen	80
9.	Feb '24	Health awareness on musculoskeletal disorders	Contract workmen	100
10.	March '24	Dental screening camp	Employees	42

COROMANDEL INTERNATIONAL LTD - KAKINADA
AMBIENT AIR QUALITY REPORT CONDUCTED INSIDE AND OUT SIDE THE
PREMISES OF COROMANDEL FOR THE Financial Year 1st April 2023 to 31st
March 2024

DATE	NEAR MRSS					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2023-24	62.3	26.5	12.3	11.2	50.6	19.6
Max FY 2023-24	81.3	37.0	18.8	17.4	70.5	38.2
Avg FY 2023-24	72.1	31.7	15.7	14.4	61.2	29.1

DATE	NEAR TXR					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2023-24	65.5	26.9	12.7	11.4	54.7	23.6
Max FY 2023-24	79.8	38.5	18.5	17.4	69.8	37.5
Avg FY 2023-24	72.1	31.6	15.6	14.5	61.4	30.7

DATE	NEAR ECC POINT					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2023-24	63.6	1.2	13.9	12.3	30.5	<20
Max FY 2023-24	77.8	38.2	18.5	17.4	69.2	<20
Avg FY 2023-24	71.4	30.7	15.9	14.6	60.9	<20

DATE	NEAR GUEST HOUSE					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2023-24	58.3	13.2	11	12.6	40.8	<20
Max FY 2023-24	65.8	26.7	14.5	15.7	49.3	<20
Avg FY 2023-24	61.78	23.1	12.63	14.09	44.67	<20

DATE	NEAR KORINGA					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2023-24	61.9	23.8	12.9	11.7	37.4	<20
Max FY 2023-24	68.4	28.1	14.8	14.2	46.1	<20
Avg FY 2023-24	64.34	26.04	13.62	13.1	41.4	<20

COROMANDEL INTERNATIONAL LTD - KAKINADA
AMBIENT NOISE LEVEL CONDUCTED IN AND AROUND THE
PREMISES OF COROMANDEL FOR THE Financial Year 1st April 2023 to 31st
March 2024

S.No	LOCATION	Ambient NOISE MAX Value FY 2023_24		Ambient NOISE "MIN Value" FY 2023_24		Ambient NOISE Average FY 2023_24	
		Unit of Measurement in dB(A)					
		Day Max	Night Max	Day Mini	Night Mini	Day Average	Night Average
1	North gate.	70.8	64.1	68.2	56.7	69.4	60.0
2	East gate.	71.5	61.9	65.9	54.9	68.5	58.2
3	South gate.	72.3	66.5	69.5	58.6	71.0	62.1
4	South west corner.	69.5	57.2	65.3	53.2	66.9	55.2
5	North west corner.	67.6	58.9	63.8	55.9	65.3	57.2
6	East side of bagging plant.	70.9	68.9	67.5	61.6	69.5	64.7
7	Back side of technical building.	69.2	63.7	65.0	59.8	67.5	61.4

COROMANDEL INTERNATIONAL LTD - KAKINADA
SEWAGE TREATMENT PLANT – TREATED WATER VALUES For
The Financial Year 1st April 2023 to 31st March 2024

S No	Parameter	Standard	Unit	FY 2023- 24 Max	FY 2023- 24 Min	FY 2023- 24Avg
1	pH	5.5 to 9.0	-	7.66	7.14	7.45
2	TSS	200	mg/l	39.00	11.00	18.92
3	TDS	2100	mg/l	648.00	456.00	564.42
4	COD	250	mg/l	72.00	19.90	60.08
5	BOD	30	mg/l	28.00	7.00	20.08
6	Oil & Grease	10	mg/l	0.00	0.00	<1.0
7	Ammonical Nitrogen	50	mg/l	8.01	5.96	7.07
8	Free Ammonia as NH3	5	mg/l	0.09	0.02	0.05
9	Total Kjeldal Nitrogen	100	mg/l	14.60	9.81	11.48
10	Nitrate Nitrogen	10	mg/l	0.82	0.51	0.70
11	Phosphate as P	5	mg/l	0.65	0.05	0.51
12	Flouride as F	2	mg/l	0.54	0.38	0.48

COROMANDEL INTERNATIONAL LTD - KAKINADA
GROUND WATER & COOLING TOWER WATER ANALYSIS VALUES For
The Financial Year 1st April 2023 to 31st March 2024

	Near Ammonia Storage Tank				Near Phosphoric acid storage tank				Near Scrap Yard			
Parameters	pH (6.5- 8.5)	Ammonical Nitrogen (mg/l)	Nitrate Nitrogen as NO ₃ (mg/l)	Fluoride as F (mg/l)	pH (6.5- 8.5)	Ammonical Nitrogen (mg/l)	Nitrate Nitrogen as NO ₃ (mg/l)	Fluoride as F (mg/l)	pH (6.5- 8.5)	Ammonical Nitrogen (mg/l)	Nitrate Nitrogen as NO ₃ (mg/l)	Fluoride as F (mg/l)
Standard	6.5- 8.5	-	45	1	6.5- 8.5	-	45	1	6.5- 8.5	-	45	1
Max	8.16	<0.01	12.80	1.50	7.13	2.40	139.00	6.00	7.60	<0.01	646.00	1.00
Min	7.76	<0.01	11.40	1.23	6.96	2.36	132.00	5.92	7.25	<0.01	9.53	0.78
Average	7.93	<0.01	12.20	1.39	7.05	2.38	135.50	5.96	7.45	<0.01	177.78	0.85

COOLING TOWER WATER ANALYSIS REPORT:

S.No	Parameter	Unit	Max	Min	Average
1	pH	-	7.93	7.36	7.68
2	TDS	mg/l	810	528.00	674
3	TSS	mg/l	29	14.00	23
4	BOD	mg/l	20	11.00	16
5	COD	mg/l	48	32.00	38
6	Oil & Grease	mg/l	<1.0	<1.0	<1.0
7	Legionella Bacteria	per ml	Absent	Absent	Absent

ENVIRONMENT INITIATIVES/ACTIVITIES

ECO-FRIENDLY GANESH IDOL DISTRIBUTION:



On 16.09.2023, Unit Head distributing the Eco-Friendly Ganesha idols to Employees and Contract Workmen

ENVIRONMENT DAY CELEBRATION:



"Meri Life – Lifestyle Pledge for Environment "



Elocution competition on Environment



Quiz competition on Environment



On 21.05.2023, Coromandel Employees & Contract workmen voluntarily participated in the "Sagarateera Swachhata Program" organized by APPCB

World Environment Day celebrations from 26.05.23 to 05.06.23



Badges distribution



Flag Hoisting by Unit Head



Environment Pledge



Unit Head addressing the gathering



Tree plantation by Unit Head and Employees in plant premises



World Environment Day celebrations 2023



Coromandel employees participating in Environment Day rally



29



Environment pledge



Environment Pledge



Chief Guest (AEE) message to gathering



Prize distribution for competition winners

WORLD OZONE DAY -AWARENESS PROGRAMME:



On 16.09.2023, awareness programs were conducted in view of "World Ozone Day"

FAI ENVIRONMENT PROTECTION AWARD:



FAI Environment Protection Award



Mr. Sankara Subramanian - Executive Director and Mr. Amir Alvi – Head of Manufacturing receiving FAI award from Dr. Mansukh Mandaviya, Union Minister for Chemicals & Fertilizers, Gov. of India

First Ever in Coromandel, on 06.12.2023, Kakinada unit has received **FAI Environment Protection Award** in the **NP/NPK fertilizer plants without captive acid category** for the year 2022-23. The award was presented during the Fertilizer Association of India (FAI) Annual seminar held in New Delhi



TRAINING CONDUCTED:



IMS awareness session

FUGITIVE EMISSIONS CONTROL MEASURES:

MEASURES ADOPTED TO CONTROL FUGITIVE EMISSIONS AND IMPROVEMENT IN HOUSE KEEPING

- Concreted / BT Roads laid to reduce fugitive emissions generated during vehicle transport.
- Vehicle Speed limit restricted to 20KMPH within.
- Road Sweeping machine introduced to mitigate road dust emission.
- Water tanker with sprinklers provided to mitigate dust emission.



6

CSR ACTIVITIES:

Curative Health Care

Key Objectives in Curative Health Care

- To improve the healthcare infrastructure of the Government General Hospital.
- To ensure better diagnostic and treatment facilities for patients.
- To support the hospital in managing high patient loads effectively.

Support to NICU & PICU of Government General Hospital: to attain it's key objectives the Coromandel has continued its support for Government General Hospital to improve the healthcare infrastructure at the Government General Hospital, in terms of ensuring better diagnostic and treatment facilities for new born babies and children. This support has enabled the hospital in managing high patient loads effectively and provide quality healthcare service by providing essential medical equipment for NICU and PICU. this support has not only enhanced the hospital's capabilities but also reinforced our commitment to making a meaningful impact on public health. and has resulted in better healthcare delivery and outcomes for the community, demonstrating our commitment to public health and sustainable development..

NICU				PICU		
Year	Admissions	Deaths	% of mortality	Admissions	Deaths	% of mortality
2023	3785	355	9	4641	280	6.03



Support to Comprehensive Lactation Management Unit - GGH

In addition, the Coromandel has donated equipment to the Comprehensive Lactation Management Center (Mother's Milk Bank) at GGH, operated by Sushena Foundation. which is aimed to combat neonatal malnutrition by facilitating donations of milk from lactating mothers and providing pasteurized human milk to infants in need. The donated materials, including breast pumps, water bath shaker, air conditioner, and autoclave, has significantly enhanced the operations of the Mother's Milk Bank, ensured seamless support for neonatal care



- Our decade long partnership with GGH Kakinada's NICU/PICU has saved countless lives of new born and children
- The equipment was handed over by Our Executive Chairman
- "Bedside Ultrasound Machine" for Infants is a first-of-its-kind in any government hospital in Andhra Pradesh
- State-of-the-art equipment revolutionizes neonatal diagnosis in NICU/PICU
- Enabled the swift and accurate assessments for immediate treatment, ultimately reducing infant mortality rates.
- Played a crucial role in supporting infant health, particularly for premature and critically ill newborns who cannot be breastfed by their biological mothers through Comprehensive Lactation Management Center(Mother's Milk Bank)



Coromandel Hospital

The Coromandel International, has been providing variety of medical services to the community, especially for poor, below middle class and middle class families of Kakinada rural in collaboration with AMM foundation . Through this Establishment we have been addressing the local healthcare needs, providing various general outpatient services for a nominal consultation fee for obstetrics and gynecology, cardiology, ophthalmology, dental care, Ortho, physiotherapy. The Coromandel International conducts regular outreach programs to increase healthcare access and awareness in rural areas under it's CSR. The Coromandel hospital enabled us in terms of bridging gaps in healthcare access and affordability.



Coromandel Hospital

Case particulars From 1st April 2023 to 31st March 2024

Particulars	No. of Beneficiaries
TOTAL STEP-IN TO CMH	108059
FEMALE	61951
MALE	46108
Total	108059
General Medicine services	77233
PHYSIOTHERAPY CASES	10784
DENTAL CASES	6919
OPHTHALMOLOGY CASES	6026
GYNAEC CASES	5169
ORTHOPEDIC CASES (Friday only)	1660
PEDIATRIC CASES (Wednesday only)	268
Total	108059
ULTRA-SCANNING CASES	3028
2D ECHO CASES	446
CT SCAN CASES	386
No. of X-Rays	7467
No. of ECGs	3566
LAB users	54516
SUTURING beneficiaries	17
Wound dressing beneficiaries	144
PHARMACY Beneficiaries	82986



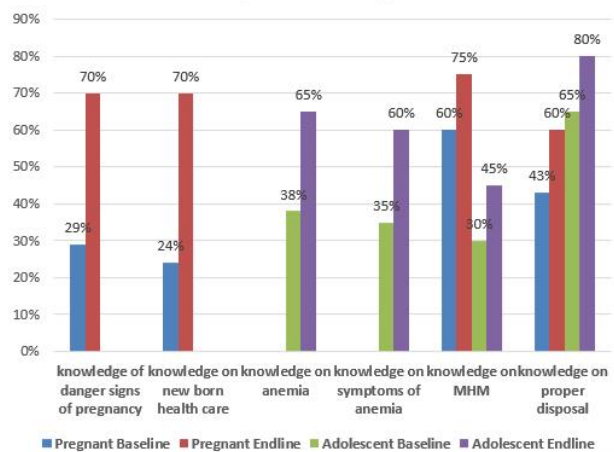
Preventive Health Care

The health education is a critical component in most diverse health challenges and a vast populated Indian society. Keeping in view of the above Coromandel has been implementing various preventive health management programs since its CSR journey started. Project "Svasthya" (A special focus on women and adolescent girls health) and ensuring safe drinking water through RO plants and Tankers are the key programs amongst. The prime focus of the programs are to equip individuals with knowledge and skills to make informed health decisions. The activities concentrates on enhancing health literacy to promote preventive measures and healthy lifestyles, reduce the incidence prevalence of both communicable and non-communicable diseases among all communities. The health education programs conducted in 2023-24 were highly successful in promoting health and wellness within the communities of Vakalapudi, Valasapakala and Suryaraopeta villages. Continued efforts and strategic improvements will further enhance the impact of future health awareness initiatives, fostering a healthier and more informed community as part of Preventive Health Care programs.

Project “Svasthya”

The project “SVASTHYA” was designed to address specific health needs and challenges faced by women and adolescent girls in rural areas of Kakinada district. This project aimed to improve health outcomes, provide education, and promote preventive health practices, by 1. ensuring safe motherhood in the targeted villages (Valasapakala, Vakalapudi and Suryaraopeta) by 2. providing care to Pregnant & Lactating mothers, 3. Improving reproductive and sexual health status among Adolescent girls and women, 4. Reduction of Anemia among the adolescent girls and women, 5. Improving the knowledge on communicable and non-communicable diseases, including locally endemic diseases among pregnant, lactating and general women and adolescent girls and other village communities collaborating with Concerned Govt authorities, NGOs, Anganwadies, Government High Schools and village heads. Around 398 pregnant and lactating mothers, 600 adolescent girls and general women will receive various kind of health services through this project.

Impact of the Project



Addressing anemia among pregnant women

Anemia during pregnancy is a significant public health concern, It is associated with adverse maternal and fetal outcomes, including increased risk of maternal mortality, preterm birth, and low birth weight. In Kakinada, the areas of Vakalapudi, Valasapakala, and Suryaraopeta have reported about 15% incidences of anemia among 398 pregnant women. Based on the above report outlines the Coromandel has initiated provision of nutrition supplements distribution program for three months targeting 53 anemic pregnant women in these regions as part of Svasthya project. The nutrition distribution program in Vakalapudi, Valasapakala, and Suryaraopeta of Kakinada has shown promising results in addressing anemia among pregnant women with Collaborative efforts between healthcare providers, community leaders, and the concerned authorities



Healthy Hemoglobin:

(Anemia Screening Campaign & Nutrition distribution for Teen Girls)

Anemia, particularly iron deficiency anemia, is a widespread health issue among adolescent girls, affecting their growth, cognitive development, and overall well-being. In response to the anemic situation in Vakalapudi, Valasapakala, and Suryaraopeta of Kakinada, a comprehensive anemia screening and nutrition distribution program has been implementing since Jan'24. frequent educational workshops and interactive sessions have been conducted at High schools and Anganwadi centers. Engaged parents and community members in the program to create a supportive environment for students and addressed myths and misconceptions about anemia and iron supplementation. Around 600 adolescent girls were receiving various kinds of services from Vakalapudi, Valasapakala and Suryaraopeta through this project. Out of which 150 adolescent girls received iron rich supplements.



Essential initiatives to educate Communities

As part of Health awareness, environmental awareness and commemorating historical events the Coromandel has celebrated various special days such as, raising awareness about significant issues, celebrating achievements, raise awareness about global issues, recognize and appreciate the contributions of individuals or groups, such as Earth Day, Environment Day, World Heart Day, Global Hand Washing Day, World Health Day, and International Women's Day. These observances are aimed to educate the public and inspire action. As the Coromandel believes that the Health and environmental awareness programs are essential initiatives in terms of educating the communities, promoting healthy lifestyles, and encouraging sustainable practices to protect the planet. Here are key points about these programs..

- People informed about various health issues and got aware of preventive measures
- Behavioral change
- Improved health seeking behavior
- Increased footfall of Coromandel Hospital





Girl Child Scholarship Program

The Coromandel's **Girl Child Scholarship** Program is an initiative designed to support the education of underprivileged girl children in Kakinada rural. This program targets to empower girls from economically disadvantaged background families by providing financial assistance for their education, thereby encouraging higher enrollment and retention rates in government schools. It's also aimed to reduce the dropout rates among girl students, prevent early marriages and promote gender equality in education by addressing financial barriers. This year we awarded 126 girl children studying 9th, 10th, 11th and 12th standards. The scholarship is typically awarded to girl students from economically weaker sections who demonstrate academic merit and are enrolled specifically in government or government-aided schools. The scholarship covers various educational expenses, such as tuition fees, books, uniforms, and other related costs of the students. Appreciation certificates, medals and bicycles were also presented to support their educational journey to all students along with the Scholarships, hoping that this support will enable them in shaping up their brighter future. Through this scholarship program, Coromandel International aims to contribute to the socio-economic development of communities by fostering the educational aspirations of girl children, thereby helping to build a more inclusive and educated society



Livelihood Skills Training and Women Empowerment

The Coromandel Women Livelihoods Trainings Program is an initiative designed to empower women in the Coromandel operational areas of Kakinada by providing them with skills and knowledge to improve their economic opportunities and enhance their quality of life. The main objective of this program is to equip women with vocational skills and training that are relevant to local market needs, and to increase women's participation in the workforce and entrepreneurship, thereby boosting household incomes and economic resilience.

The Coromandel Kakinada has been implementing "Women Business program" in collaboration with IKKA foundation in terms of empowering "**Women entrepreneurs**" from Vakalapudi, Valasapakala, Suryaraopeta, Ramanayyapeta and Rayudupalem. Total 27 women has completed training on business planning, financial management, marketing strategies, and operational efficiency, and support needed to start, manage, and grow their businesses. And around 60 women were trained on basic tailoring skills.



ANALYSIS REPORTS



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Ref: SVELC/CIL/23-04/04

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR GUEST HOUSE

DATE & TIME OF START : 20-04-2023 @ 10.15 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	62.6	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	23.8	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	12.5	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	14.3	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	45.1	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-04/05

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 21-04-2023 @ 11.15 hr

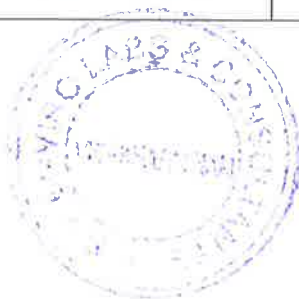
DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	65.7	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	25.8	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	13.6	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	12.2	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	42.5	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-02/05

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : A - TRAIN OF NPK (DAP)

DATE & TIME OF START : 10-04-2023 @ 10.15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	31
4.	Stack temperature	$^{\circ}\text{C}$	96
5.	Exit Velocity	m/sec	12.6
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	66.9	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	86.5	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.42	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-04/06

02-05-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START

10-04-2023 @ 11.15hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	89
5.	Exit Velocity	m/sec	13.6
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	62.3	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	130	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.39	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-04/07

02-05-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START

10-04-2023 @ 12:15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	33
4.	Stack temperature	$^{\circ}\text{C}$	85
5.	Exit Velocity	m/sec	12.3
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter - PM	mg/Nm ³	55.6	115	IS:11255-P-1
2.	Ammonia - NH ₃	mg/Nm ³	101	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.25	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-04/08

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 15-04-2023

DATE OF ANALYSIS COMPLETED 25-04-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.87	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	810	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	25.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	16.0	IS 3025 P:44
5	COD	mg/l	36.2	APHA, 5220-B, 22 th Ed., 2012
6	OIL& GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017

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Ref: SVELC/CIL/23-04/09

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 15-04-2023

DATE OF ANALYSIS COMPLETED : 25-04-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	6.05	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	106	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	370	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	398	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	165	IS 3025 P 44
6.	Oil & Grease	mg/l	4.1	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	20.6	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.19	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	32.6	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	3.58	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.60	IS.3025, P-52
12.	Fluoride as F	mg/l	0.43	IS.3025, P-60

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Ref: SVELC/CIL/23-04/10

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP OUTLET

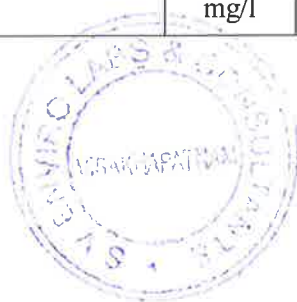
DATE OF COLLECTION : 15-04-2023

DATE OF ANALYSIS COMPLETED : 25-04-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.24	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	39.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	456	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	19.9	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	7.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	5.96	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.05	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	11.6	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.62	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.54	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.47	2.0	IS.3025, P-60


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Ref: SVELC/CIL/23-04/01

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Particulate matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO ₂ $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO _x $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH ₃) $\mu\text{g}/\text{m}^3$
01-04-2023	73.4	31.9	17.0	16.3	63.5	<20
03-04-2023	76.1	34.6	15.8	13.6	66.2	<20
04-04-2023	74.3	32.4	16.2	14.5	65.6	<20
10-04-2023	72.8	30.2	15.4	13.0	62.8	<20
11-04-2023	70.5	28.7	15.8	14.3	64.7	<20
17-04-2023	71.0	27.5	14.2	12.6	58.5	<20
18-04-2023	74.5	31.3	16.0	15.2	66.4	<20
24-04-2023	76.9	33.0	17.5	16.1	69.2	<20
25-04-2023	75.4	31.9	15.4	13.8	62.4	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-04/02

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR TXR POINT

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-04-2023	75.8	33.2	16.7	15.0	66.4	34.8
03-04-2023	77.2	36.0	18.2	16.9	69.8	37.2
04-04-2023	76.0	32.6	17.0	15.4	67.2	35.4
10-04-2023	73.5	30.1	16.5	14.1	63.0	29.4
11-04-2023	71.8	29.4	15.7	13.5	60.4	32.5
17-04-2023	69.2	28.2	14.9	12.7	57.6	33.8
18-04-2023	72.4	31.5	15.7	14.2	64.2	30.5
24-04-2023	74.2	33.4	16.3	15.0	66.7	34.8
25-04-2023	75.8	32.6	15.6	14.1	62.4	31.5
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-04/03

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MRSS

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Particulate matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO ₂ $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO _x $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH ₃) $\mu\text{g}/\text{m}^3$
01-04-2023	73.2	33.4	15.6	13.6	62.8	26.4
03-04-2023	75.4	34.6	16.2	15.1	65.4	30.5
04-04-2023	76.9	35.2	15.9	14.3	67.6	32.7
10-04-2023	73.5	31.5	14.8	13.2	60.7	29.3
11-04-2023	71.8	30.1	15.2	14.0	58.6	25.8
17-04-2023	69.2	28.7	14.5	12.8	55.4	23.8
18-04-2023	72.0	31.6	15.7	13.9	61.8	31.7
24-04-2023	74.7	32.9	16.5	15.3	65.4	35.8
25-04-2023	76.1	33.4	17.8	16.4	68.7	37.5
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-04/11

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - II

DATE & TIME OF START : 11-04-2023 @ 10.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	90
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	54.8	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-04/12

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - III

DATE & TIME OF START : 11-04-2023 @ 11.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	86
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	55.8	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-04/13

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : SCREEN HOUSE

DATE & TIME OF START : 12-04-2023 @ 11:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	91
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	54.3	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-04/14

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF COLLECTION : 10-04-2023 to 15-04-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	69.9	57.6	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	71.5	58.4	
3.	Near South Gate	70.1	59.3	
4.	Near South West Corner	69.5	55.9	
5.	Near North West Corner	67.6	57.3	
6.	Near East Side of Bagging Plant	70.9	66.2	
7.	Back Side of Technical Building	69.2	62.1	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	12/05/2022	11/05/2023
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	17/06/2022	16/06/2023



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Ref: SVELC/CIL/23-04/15

02-05-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 14-04-2023

DATE OF ANALYSIS COMPLETED : 24-04-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	8.16	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.15	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	2308	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	635	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	34.0	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	220	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	710	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	582	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.19	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	0.61	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	0.68	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	<0.01	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	11.4	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	1.33	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-04/16

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : BACKSIDE TO STORES

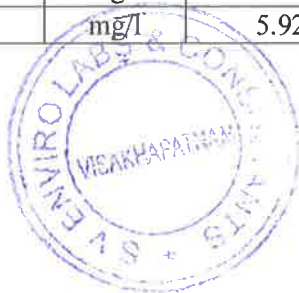
DATE OF COLLECTION : 14-04-2023

DATE OF ANALYSIS COMPLETED : 24-04-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	6.96	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.29	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	9936	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	2250	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	341	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	340	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1820	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	2667	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.25	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	3.46	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	3.87	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	2.36	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	132	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	5.92	1.0	APHA, 4500-FD, 23rd Ed.,

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Ref: SVELC/CIL/23-04/17

02-05-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

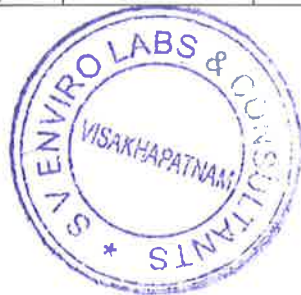
DATE OF COLLECTION : 14-04-2023

DATE OF ANALYSIS COMPLETED : 24-04-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	6.83	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	2.36	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	27132	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	6800	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	681	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1239	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1580	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	4057	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.28	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.04	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.41	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.92	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	7.25	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	2.95	1.0	APHA, 4500-FD, 23rd Ed.,

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Ref: SVELC/CIL/23-04/18

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 14-04-2023

DATE OF ANALYSIS COMPLETED : 24-04-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.42	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.05	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	3432	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	1720	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	407	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	171	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	270	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	931	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.18	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	0.82	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	0.99	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	<0.01	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	646	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	0.78	1.0	APHA, 4500-FD, 23rd Ed.,

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Ref: SVELC/CIL/23-04/19

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : 12 TPH BOILER

DATE & TIME OF START : 13-04-2023@ 11:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	31
4.	Stack temperature	$^{\circ}\text{C}$	178
5.	Velocity	m/s	6.52
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	32.3	-	
4.	Carbon Dioxide – CO ₂	%	1.51	-	
5.	Carbon Monoxide – CO	ppm	1.39	-	
6.	Oxygen – O ₂	%	2.27	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-04/20

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : FUGITIVE AIR QUALITY

SOURCE OF COLLECTION : AT RAW MATERIAL STORAGE AREA

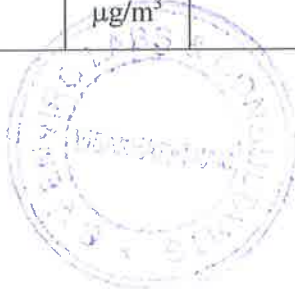
DATE & TIME OF START : 12-04-2023@ 10:15 hr

DURATION OF SAMPLING : 08 hours

TEST REPORT

S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	1089	IS:5182 (P-4) Gravimetric	15000


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Ref: SVELC/CIL/23-04/21

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : FUGITIVE AIR QUALITY

SOURCE OF COLLECTION : AT TRAIN A & B

DATE & TIME OF START : 12-04-2023@ 10:45 hr

DURATION OF SAMPLING : 08 hours

TEST REPORT

S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	1262	IS:5182 (P-4) Gravimetric	15000

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Ref: SVELC/CIL/23-04/22

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : FUGITIVE AIR QUALITY

SOURCE OF COLLECTION : AT TRAIN C

DATE & TIME OF START : 13-04-2023@ 11:00 hr

DURATION OF SAMPLING : 08 hours

TEST REPORT

S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	1175	IS:5182 (P-4) Gravimetric	15000


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Ref: SVELC/CIL/23-04/23

02-05-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : FUGITIVE AIR QUALITY

SOURCE OF COLLECTION : AT BAGGING PLANT AREA

DATE & TIME OF START : 13-04-2023@ 11:30 hr

DURATION OF SAMPLING : 08 hours

TEST REPORT

S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	1589	IS:5182 (P-4) Gravimetric	15000


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Ref: SVELC/CIL/23-05/04

Date: 03-06-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR GUEST HOUSE**

DATE & TIME OF START : **24-05-2023 @ 10.30 hr**

DURATION OF SAMPLING : **24 hours**

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	65.8	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	25.4	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	13.9	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	15.7	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	47.3	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-05/05

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 26-05-2023 @ 11.45 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	68.4	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	26.7	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	14.2	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	13.6	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	44.5	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-02/05

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : A - TRAIN OF NPK (PRODUCT 10:26:26)

DATE & TIME OF START : 11-05-2023 @ 10.15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	32
4.	Stack temperature	°C	93
5.	Exit Velocity	m/sec	13.5
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	64.2	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	7.72	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.20	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-05/06

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START : 11-05-2023 @ 11.15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	85
5.	Exit Velocity	m/sec	13.0
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	54.2	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	126	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.57	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-05/07

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:14:35:14)

DATE & TIME OF START : 11-05-2023 @ 12:15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	33
4.	Stack temperature	⁰ C	96
5.	Exit Velocity	m/sec	13.8
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	54.9	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	87.2	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.65	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-05/08

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 15-05-2023

DATE OF ANALYSIS COMPLETED : 25-05-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.68	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	734	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	28.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	20.0	IS 3025 P:44
5	COD	mg/l	41.8	APHA, 5220-B, 22 th Ed., 2012
6	OIL& GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/23-05/09

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 15-05-2023

DATE OF ANALYSIS COMPLETED : 25-05-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.06	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	118	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	642	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	286	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	124	IS 3025 P 44
6.	Oil & Grease	mg/l	3.5	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	18.6	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.15	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	28.4	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.93	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.32	IS.3025, P-52
12.	Fluoride as F	mg/l	0.40	IS.3025, P-60


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Ref: SVELC/CIL/23-05/10

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP OUTLET

DATE OF COLLECTION : 15-05-2023

DATE OF ANALYSIS COMPLETED : 25-05-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.48	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	19.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	537	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	72.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	21.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	7.69	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.09	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	14.6	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.78	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.65	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.51	2.0	IS.3025, P-60


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Ref: SVELC/CIL/23-05/01

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-05-2023	70.8	30.4	16.5	15.3	59.8	<20
03-05-2023	73.6	32.7	14.8	12.9	63.5	<20
08-05-2023	70.2	30.6	16.9	13.5	63.0	<20
09-05-2023	74.1	32.4	17.3	15.2	65.6	<20
15-05-2023	72.5	30.8	16.8	15.1	66.4	<20
16-05-2023	73.4	31.5	18.0	14.8	63.9	<20
22-05-2023	76.0	33.7	17.6	16.9	68.0	<20
23-05-2023	73.6	31.4	16.2	15.0	65.3	<20
29-05-2023	71.8	32.5	14.5	14.1	59.6	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-05/02

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR TXR POINT

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-05-2023	72.8	31.9	15.0	14.2	62.7	32.0
03-05-2023	75.1	34.7	17.2	16.0	65.9	33.4
08-05-2023	73.5	33.8	16.7	15.1	64.0	32.8
09-05-2023	75.6	34.2	18.5	17.3	65.8	31.2
15-05-2023	72.8	32.0	16.3	15.8	62.7	30.6
16-05-2023	71.9	33.4	17.4	16.0	63.6	31.8
22-05-2023	75.2	34.1	15.0	14.9	62.0	32.7
23-05-2023	73.7	32.5	17.6	16.2	64.8	31.4
29-05-2023	76.4	33.9	14.5	15.4	63.2	33.0
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-05/03

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MRSS

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-05-2023	75.2	35.1	16.8	14.5	64.0	28.7
03-05-2023	76.9	36.3	17.4	15.0	66.5	32.6
08-05-2023	78.1	37.0	16.3	14.9	68.7	33.8
09-05-2023	75.3	33.4	13.7	12.8	59.8	28.4
15-05-2023	69.5	29.7	14.2	13.7	60.5	27.6
16-05-2023	70.8	30.6	15.3	13.5	58.4	25.1
22-05-2023	74.6	32.8	16.9	15.0	63.7	33.5
23-05-2023	76.2	34.5	17.0	16.2	68.1	36.4
29-05-2023	78.3	35.1	18.4	17.3	70.5	38.2
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-05/11

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - II

DATE & TIME OF START : 09-05-2023 @ 10.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	93
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	57.1	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-05/12

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - III

DATE & TIME OF START : 10-05-2023 @ 12.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	33
4.	Stack temperature	$^{\circ}\text{C}$	91
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm^3	52.4	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm^3	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-05/13

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : SCREEN HOUSE

DATE & TIME OF START : 10-05-2023 @ 11:30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	^o C	32
4.	Stack temperature	^o C	88
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	52.0	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-05/14

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF COLLECTION : 10-05-2023 to 15-05-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	68.3	56.7	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	70.8	57.0	
3.	Near South Gate	69.5	58.6	
4.	Near South West Corner	68.7	54.8	
5.	Near North West Corner	65.9	56.1	
6.	Near East Side of Bagging Plant	70.4	68.9	
7.	Back Side of Technical Building	68.2	61.3	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	17/06/2022	16/06/2023

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Ref: SVELC/CIL/23-05/15

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 15-05-2023

DATE OF ANALYSIS COMPLETED : 25-05-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	8.02	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.23	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	2390	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	1479	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	210	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	232	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	728	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	596	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.21	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	0.65	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	0.72	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	<0.01	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	12.8	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	1.50	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-05/16

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : BACKSIDE TO STORES

DATE OF COLLECTION : 15-05-2023

DATE OF ANALYSIS COMPLETED : 25-05-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.13	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.35	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	9964	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	2265	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	343	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	342	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1834	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	2686	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.28	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	3.57	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	3.91	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	2.4	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	139	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	6.0	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-05/17

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 15-05-2023

DATE OF ANALYSIS COMPLETED : 25-05-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.15	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	2.50	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	27206	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	6820	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	684	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1242	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1593	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	4069	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.31	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.27	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.68	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.99	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	8.10	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	3.2	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-05/18

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 15-05-2023

DATE OF ANALYSIS COMPLETED : 25-05-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.60	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.09	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	3458	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	1752	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	411	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	176	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	279	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	943	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.21	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	0.87	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	0.94	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	<0.01	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	657	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	0.81	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-05/19

Date: 03-06-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **13-05-2023@ 11:00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	185
5.	Velocity	m/s	7.0
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	35.8	-	
4.	Carbon Dioxide – CO ₂	%	1.86	-	
5.	Carbon Monoxide – CO	ppm	1.54	-	
6.	Oxygen – O ₂	%	2.47	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No.23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-05/20

Date: 03-06-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **1010 KVA DG SET – 1**

DATE & TIME OF COLLECTION : **12-05-2023@ 14:45 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	173
5.	Diameter of Stack	m	0.75
6.	Cross sectional area of Stack	m^2	0.44
7.	Flue Gas Velocity	m/sec	13.4
8.	Flow rate	m^3/hr	21225
9.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM (at 15% O ₂)	mg/Nm^3	60.4	115	IS:11255-P-1
2.	Sulphur Dioxide – SO ₂	mg/Nm^3	41.6	-	IS:11255-P-2
3.	Oxides of Nitrogen – NO _x	mg/Nm^3	67.8	-	IS:11255-P-7
4.	Non Methane Hydrocarbons (at 15% O ₂)	mg/Nm^3	<1.0	-	USEPA TO 18
5.	Carbon Monoxide – CO (at 15% O ₂)	mg/Nm^3	72.0	-	Flue gas analyzer

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-05/21

Date: 03-06-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : 1010 KVA DG SET – 2

DATE & TIME OF COLLECTION : 12-05-2023@ 15:45 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	33
4.	Stack temperature	⁰ C	184
5.	Diameter of Stack	m	0.75
6.	Cross sectional area of Stack	m ²	0.44
7.	Flue Gas Velocity	m/sec	14.5
8.	Flow rate	m ³ /hr	22968
9.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM (at 15% O ₂)	mg/Nm ³	69.5	115	IS:11255-P-1
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	50.1	-	IS:11255-P-2
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	75.6	-	IS:11255-P-7
4.	Non Methane Hydrocarbons (at 15% O ₂)	mg/Nm ³	<1.0	-	USEPA TO 18
5.	Carbon Monoxide – CO (at 15% O ₂)	mg/Nm ³	78.2	-	Flue gas analyzer

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-06/04

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR GUEST HOUSE

DATE & TIME OF START : 23-06-2023 @ 09.30 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	62.9	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	24.1	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	12.8	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	14.6	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	45.2	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-06/05

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 24-06-2023 @ 10.30 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	65.2	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	25.9	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	13.5	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	12.8	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	42.1	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-02/05

Date: 03-07-2023

NAME AND ADDRESS

:

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

:

STACK EMISSIONS

SOURCE OF COLLECTION

:

A - TRAIN OF NPK (PRODUCT 15:15:15)

DATE & TIME OF START

:

15-06-2023 @ 10.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	88
5.	Exit Velocity	m/sec	12.9
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	60.3	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	127	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	2.06	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-06/06

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START : 15-06-2023 @ 11.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	91
5.	Exit Velocity	m/sec	13.8
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	62.1	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	85.6	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.39	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-06/07

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START : 15-06-2023 @ 12:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	87
5.	Exit Velocity	m/sec	12.6
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.3	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	80.6	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.37	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-06/08

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 20-06-2023

DATE OF ANALYSIS COMPLETED : 30-06-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.86	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	699	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	24.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	17.0	IS 3025 P:44
5	COD	mg/l	36.5	APHA, 5220-B, 22 th Ed., 2012
6	OIL & GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/23-06/09

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 20-06-2023

DATE OF ANALYSIS COMPLETED : 30-06-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.23	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	105	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	688	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	275	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	120	IS 3025 P 44
6.	Oil & Grease	mg/l	3.1	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	15.9	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.13	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjheldal Nitrogen (as NH3)	mg/l	25.2	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.78	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.25	IS.3025, P-52
12.	Fluoride as F	mg/l	0.37	IS.3025, P-60


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Ref: SVELC/CIL/23-06/10

Date: 03-07-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP OUTLET**

DATE OF COLLECTION : **20-06-2023**

DATE OF ANALYSIS COMPLETED : **30-06-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.56	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	16.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	569	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	65.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	18.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	7.40	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.07	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	11.7	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.71	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.57	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.48	2.0	IS.3025, P-60


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Ref: SVELC/CIL/23-06/01

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
02-06-2023	76.4	33.7	17.6	16.2	65.2	<20
05-06-2023	74.6	32.4	15.9	14.5	62.4	<20
06-06-2023	72.9	30.3	15.2	13.9	60.8	<20
12-06-2023	75.4	31.6	16.5	15.1	64.9	<20
13-06-2023	73.2	29.1	15.7	14.3	58.6	<20
19-06-2023	71.6	28.4	16.1	14.8	56.8	<20
20-06-2023	73.0	30.2	15.4	13.9	61.4	<20
26-06-2023	69.4	27.1	14.6	13.2	59.2	<20
27-06-2023	72.6	29.6	15.9	14.5	63.1	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-06/02

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR TXR POINT

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Particulate matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO ₂ $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO _x $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH ₃) $\mu\text{g}/\text{m}^3$
02-06-2023	77.2	34.6	16.4	15.1	66.4	34.8
05-06-2023	74.6	32.8	15.7	14.3	63.5	32.4
06-06-2023	72.9	31.4	15.2	13.9	60.2	29.6
12-06-2023	76.2	33.5	16.4	15.8	64.9	33.1
13-06-2023	74.1	31.2	15.5	14.7	59.3	31.5
19-06-2023	73.0	30.6	16.8	15.3	61.2	32.6
20-06-2023	71.3	29.4	15.0	14.1	57.6	30.4
26-06-2023	69.5	28.1	14.3	13.6	58.4	29.1
27-06-2023	72.4	30.9	15.4	14.5	62.6	32.9
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-06/03

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MRSS

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) $\mu\text{g}/\text{m}^3$	Particulate matter (PM _{2.5}) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO ₂ $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO _x $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH ₃) $\mu\text{g}/\text{m}^3$
02-06-2023	78.4	37.2	17.6	16.1	67.5	35.2
05-06-2023	75.8	34.5	16.2	14.8	64.3	33.8
06-06-2023	73.6	33.1	15.9	14.2	61.8	31.6
12-06-2023	76.7	35.4	16.8	15.6	65.2	34.7
13-06-2023	74.2	32.0	15.6	13.9	62.4	30.9
19-06-2023	72.5	31.6	16.5	14.8	59.1	28.6
20-06-2023	70.4	29.3	15.7	13.2	62.5	31.4
26-06-2023	68.9	28.1	14.3	12.9	57.3	26.8
27-06-2023	71.6	30.4	16.1	14.6	60.6	30.8
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-06/11

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - II

DATE & TIME OF START : 08-06-2023 @ 10.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	30
4.	Stack temperature	$^{\circ}\text{C}$	88
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	55.3	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-06/12

Date: 03-07-2023

NAME AND ADDRESS

: M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

: STACK EMISSIONS

SOURCE OF COLLECTION

: BAGGING PLANT - III

DATE & TIME OF START

: 08-06-2023 @ 11.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	^o C	31
4.	Stack temperature	^o C	96
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	50.2	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-06/13

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : SCREEN HOUSE

DATE & TIME OF START : 09-06-2023 @ 11:30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	^o C	33
4.	Stack temperature	^o C	88
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.4	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-06/14

Date: 03-07-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

NOISE LEVELS

DATE OF COLLECTION

10-06-2023 to 20-06-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	70.1	58.6	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	68.5	56.1	
3.	Near South Gate	71.3	59.8	
4.	Near South West Corner	67.2	53.7	
5.	Near North West Corner	66.2	57.6	
6.	Near East Side of Bagging Plant	69.5	66.3	
7.	Back Side of Technical Building	67.8	60.2	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024



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Ref: SVELC/CIL/23-06/15

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : 12 TPH BOILER

DATE & TIME OF START : 09-06-2023@ 11:30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	178
5.	Velocity	m/s	6.6
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	32.3	-	
4.	Carbon Dioxide – CO ₂	%	1.77	-	
5.	Carbon Monoxide – CO	ppm	1.46	-	
6.	Oxygen – O ₂	%	2.32	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-06/16

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : POTABLE WATER

SOURCE OF COLLECTION : WATER TREATMENT PLANT

DATE OF COLLECTION : 20-06-2023

DATE OF ANALYSIS COMPLETED : 30-06-2023

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Colour	Hazen	< 1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	<0.01	1.0
5.	pH	-	7.13	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	60.5	500
7.	Total Alkalinity as CaCO ₃	mg/l	40.3	200
8.	Total Hardness as CaCO ₃	mg/l	21.0	200
9.	Calcium as Ca	mg/l	4.52	75
10.	Magnesium as Mg	mg/l	2.36	30
11.	Chlorides as Cl	mg/l	17.6	250
12.	Fluorides as F	mg/l	0.08	1.0
13.	Nitrates as NO ₃	mg/l	<0.1	45
14.	Sulphates as SO ₄	mg/l	8.74	200
15.	Iron as Fe	mg/l	<0.01	0.3
16.	Free Residual Chlorine	mg/l	< 0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	< 0.01	0.05
19.	Manganese as Mn	mg/l	< 0.01	0.1
20.	Zinc as Zn	mg/l	< 0.01	5.0
21.	Aluminum as Al	mg/l	< 0.01	0.03
22.	Boron as B	mg/l	< 0.1	0.5
23.	Sulphide as H ₂ S	mg/l	< 0.01	0.05
24.	Anionic Detergents (as MBAS)	mg/l	< 0.01	0.2
25.	Barium as Ba	mg/l	< 0.1	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	< 0.01	0.5
28.	Mineral Oil	mg/l	< 0.01	0.5



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29.	Selenium as Se	mg/l	< 0.005	0.01
30.	Silver as Ag	mg/l	< 0.01	0.1
MICROBIOLOGY:				
31.	<i>E. coli</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	<i>Total Coliform</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SVELC/CIL/23-06/17

Date: 03-07-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

WATER

SAMPLE PARTICULARS

POTABLE WATER

SOURCE OF COLLECTION

EMPLOYEES CANTEEN

DATE OF COLLECTION

20-06-2023

DATE OF ANALYSIS COMPLETED

30-06-2023

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Colour	Hazen	< 1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	<0.01	1.0
5.	pH	-	7.02	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	53.5	500
7.	Total Alkalinity as CaCO ₃	mg/l	30.8	200
8.	Total Hardness as CaCO ₃	mg/l	18.2	200
9.	Calcium as Ca	mg/l	3.89	75
10.	Magnesium as Mg	mg/l	2.05	30
11.	Chlorides as Cl	mg/l	15.2	250
12.	Fluorides as F	mg/l	0.07	1.0
13.	Nitrates as NO ₃	mg/l	<0.1	45
14.	Sulphates as SO ₄	mg/l	7.30	200
15.	Iron as Fe	mg/l	<0.01	0.3
16.	Free Residual Chlorine	mg/l	< 0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	< 0.01	0.05
19.	Manganese as Mn	mg/l	< 0.01	0.1
20.	Zinc as Zn	mg/l	< 0.01	5.0
21.	Aluminum as Al	mg/l	< 0.01	0.03
22.	Boron as B	mg/l	< 0.1	0.5
23.	Sulphide as H ₂ S	mg/l	< 0.01	0.05
24.	Anionic Detergents (as MBAS)	mg/l	< 0.01	0.2
25.	Barium as Ba	mg/l	< 0.1	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	< 0.01	0.5
28.	Mineral Oil	mg/l	< 0.01	0.5



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29.	Selenium as Se	mg/l	< 0.005	0.01
30.	Silver as Ag	mg/l	< 0.01	0.1
MICROBIOLOGY:				
31.	<i>E. coli</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	<i>Total Coliform</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.


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Ref: SVELC/CIL/23-06/18

Date: 03-07-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **POTABLE WATER**

SOURCE OF COLLECTION : **WORKERS CANTEEN**

DATE OF COLLECTION : **20-06-2023**

DATE OF ANALYSIS COMPLETED : **30-06-2023**

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Colour	Hazen	< 1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	<0.01	1.0
5.	pH	-	7.36	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	59.8	500
7.	Total Alkalinity as CaCO ₃	mg/l	36.9	200
8.	Total Hardness as CaCO ₃	mg/l	21.9	200
9.	Calcium as Ca	mg/l	5.04	75
10.	Magnesium as Mg	mg/l	2.24	30
11.	Chlorides as Cl	mg/l	17.2	250
12.	Fluorides as F	mg/l	0.10	1.0
13.	Nitrates as NO ₃	mg/l	<0.1	45
14.	Sulphates as SO ₄	mg/l	7.35	200
15.	Iron as Fe	mg/l	<0.01	0.3
16.	Free Residual Chlorine	mg/l	< 0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	< 0.01	0.05
19.	Manganese as Mn	mg/l	< 0.01	0.1
20.	Zinc as Zn	mg/l	< 0.01	5.0
21.	Aluminum as Al	mg/l	< 0.01	0.03
22.	Boron as B	mg/l	< 0.1	0.5
23.	Sulphide as H ₂ S	mg/l	< 0.01	0.05
24.	Anionic Detergents (as MBAS)	mg/l	< 0.01	0.2
25.	Barium as Ba	mg/l	< 0.1	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	< 0.01	0.5
28.	Mineral Oil	mg/l	< 0.01	0.5
29.	Selenium as Se	mg/l	< 0.005	0.01
30.	Silver as Ag	mg/l	< 0.01	0.1



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MICROBIOLOGY:				
31.	<i>E. coli</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	<i>Total Coliform</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SVELC/CIL/23-06/19

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : POTABLE WATER

SOURCE OF COLLECTION : TXR BUILDING

DATE OF COLLECTION : 20-06-2023

DATE OF ANALYSIS COMPLETED : 30-06-2023

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Colour	Hazen	< 1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	<0.01	1.0
5.	pH	-	6.96	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	71.3	500
7.	Total Alkalinity as CaCO ₃	mg/l	43.5	200
8.	Total Hardness as CaCO ₃	mg/l	25.6	200
9.	Calcium as Ca	mg/l	5.80	75
10.	Magnesium as Mg	mg/l	2.71	30
11.	Chlorides as Cl	mg/l	21.1	250
12.	Fluorides as F	mg/l	0.09	1.0
13.	Nitrates as NO ₃	mg/l	<0.1	45
14.	Sulphates as SO ₄	mg/l	8.96	200
15.	Iron as Fe	mg/l	<0.01	0.3
16.	Free Residual Chlorine	mg/l	< 0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	< 0.01	0.05
19.	Manganese as Mn	mg/l	< 0.01	0.1
20.	Zinc as Zn	mg/l	< 0.01	5.0
21.	Aluminum as Al	mg/l	< 0.01	0.03
22.	Boron as B	mg/l	< 0.1	0.5
23.	Sulphide as H ₂ S	mg/l	< 0.01	0.05
24.	Anionic Detergents (as MBAS)	mg/l	< 0.01	0.2
25.	Barium as Ba	mg/l	< 0.1	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	< 0.01	0.5
28.	Mineral Oil	mg/l	< 0.01	0.5



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29.	Selenium as Se	mg/l	< 0.005	0.01
30.	Silver as Ag	mg/l	< 0.01	0.1
MICROBIOLOGY:				
31.	<i>E. coli</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	<i>Total Coliform</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.

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Ref: SVELC/CIL/23-06/20

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 20-06-2023

DATE OF ANALYSIS COMPLETED : 30-06-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.98	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.16	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1952	500	2000
5.	Total Hardness	mg/l	1248	200	600
6.	Calcium as Ca	mg/l	180	75.0	200
7.	Magnesium as Mg	mg/l	194	30.0	100
8.	Total Alkalinity	mg/l	652	200	600
9.	Sulphates as SO ₄	mg/l	430	200	400
10.	Iron as Fe	mg/l	0.19	0.3	No relaxation
11.	Phosphates as P	mg/l	0.62	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.68	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	12.5	45	No relaxation
15.	Fluoride as F	mg/l	1.23	1.0	1.5


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Ref: SVELC/CIL/23-06/21

Date: 03-07-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 20-06-2023

DATE OF ANALYSIS COMPLETED : 30-06-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.51	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.14	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1982	500	2000
5.	Total Hardness	mg/l	1334	200	600
6.	Calcium as Ca	mg/l	188	75.0	200
7.	Magnesium as Mg	mg/l	201	30.0	100
8.	Total Alkalinity	mg/l	611	200	600
9.	Sulphates as SO ₄	mg/l	414	200	400
10.	Iron as Fe	mg/l	0.24	0.3	No relaxation
11.	Phosphates as P	mg/l	0.92	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.03	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	10.6	45	No relaxation
15.	Fluoride as F	mg/l	0.78	1.0	1.5


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Ref: SVELC/CIL/23-07/04

Date: 03-08-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS

AMBIENT AIR QUALITY

SOURCE OF COLLECTION

NEAR GUEST HOUSE

DATE & TIME OF START

27-07-2023 @ 09.45 hr

DURATION OF SAMPLING

24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	60.2	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	23.2	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	11.9	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	13.8	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	43.7	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-07/05

Date: 03-08-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 28-07-2023 @ 10.30 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	63.2	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	23.8	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	12.9	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	11.7	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	40.3	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-02/05

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **A - TRAIN OF NPK (PRODUCT 15:15:15)**

DATE & TIME OF START : **29-07-2023 @ 10.15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	94
5.	Exit Velocity	m/sec	13.3
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	35.1	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	25.3	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.38	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-07/06

Date: 03-08-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START

29-07-2023 @ 11.15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	86
5.	Exit Velocity	m/sec	12.9
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	55.9	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	178	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.74	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-07/07

Date: 03-08-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START : 29-07-2023 @ 12:15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	32
4.	Stack temperature	°C	91
5.	Exit Velocity	m/sec	13.1
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	43.2	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	95.3	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.74	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-07/08

Date: 03-08-2023

NAME AND ADDRESS

: M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

: WASTE WATER

SOURCE OF COLLECTION

: COOLING TOWER WATER

DATE OF COLLECTION

: 21-07-2023

DATE OF ANALYSIS COMPLETED

: 31-07-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.93	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	658	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	21.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	15.0	IS 3025 P:44
5	COD	mg/l	33.8	APHA, 5220-B, 22 th Ed., 2012
6	OIL & GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/23-07/09

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP INLET**

DATE OF COLLECTION : **21-07-2023**

DATE OF ANALYSIS COMPLETED : **31-07-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.16	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	110	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	715	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	290	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	128	IS 3025 P 44
6.	Oil & Grease	mg/l	3.3	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	16.5	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.15	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	27.5	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.90	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.30	IS.3025, P-52
12.	Fluoride as F	mg/l	0.41	IS.3025, P-60


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Ref: SVELC/CIL/23-07/10

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP OUTLET**

DATE OF COLLECTION : **21-07-2023**

DATE OF ANALYSIS COMPLETED : **31-07-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.43	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	18.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	636	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	71.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	20.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	7.02	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.05	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	10.9	100	APHA, 4500-NH3; 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.65	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.55	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.43	2.0	IS.3025, P-60


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Ref: SVELC/CIL/23-07/01

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR EMERGENCY CONTROL ROOM**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
03-07-2023	72.5	31.7	16.2	15.9	63.1	<20
04-07-2023	70.7	30.2	15.1	14.2	60.7	<20
10-07-2023	69.9	29.4	14.9	13.6	58.4	<20
11-07-2023	71.2	30.1	15.7	14.4	61.3	<20
17-07-2023	70.1	28.8	14.3	13.8	57.1	<20
18-07-2023	68.4	27.3	15.6	14.5	54.7	<20
24-07-2023	69.6	29.2	14.7	12.7	59.2	<20
25-07-2023	66.8	26.6	14.2	12.9	57.6	<20
31-07-2023	69.1	28.4	16.8	15.2	61.5	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-07/02

Date: 03-08-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR TXR POINT

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
03-07-2023	73.1	32.4	15.7	14.3	62.7	31.9
04-07-2023	70.7	30.9	15.1	13.8	60.5	30.4
10-07-2023	69.3	29.6	14.5	13.4	58.2	28.7
11-07-2023	72.6	31.2	15.9	15.2	61.6	31.3
17-07-2023	70.1	29.3	14.6	14.0	57.3	29.8
18-07-2023	69.9	28.7	16.2	14.8	59.8	30.6
24-07-2023	68.2	28.1	14.4	13.7	55.2	29.3
25-07-2023	66.5	27.4	13.9	13.1	56.4	28.8
31-07-2023	69.8	30.0	14.8	13.5	60.7	30.4
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-07/03

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR MRSS**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
03-07-2023	74.6	35.3	16.1	15.4	64.7	34.1
04-07-2023	71.9	32.1	15.8	14.6	61.3	31.7
10-07-2023	70.2	31.6	15.2	13.9	59.6	30.8
11-07-2023	72.5	33.8	16.4	15.1	63.8	33.2
17-07-2023	71.3	31.0	14.9	13.4	60.2	29.4
18-07-2023	69.6	29.7	15.7	14.2	57.4	27.6
24-07-2023	67.2	28.4	14.6	12.8	59.7	29.3
25-07-2023	65.7	26.9	13.2	12.4	55.3	25.9
31-07-2023	68.5	29.1	15.5	14.1	58.6	29.5
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-07/11

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - II**

DATE & TIME OF START : **28-07-2023 @ 10.15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	93
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.5	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-07/12

Date: 03-08-2023

NAME AND ADDRESS

: **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

: **STACK EMISSIONS**

SOURCE OF COLLECTION

: **BAGGING PLANT - III**

DATE & TIME OF START

: **28-07-2023 @ 11.15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	89
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter -- PM	mg/Nm ³	48.2	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-07/13

Date: 03-08-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

SCREEN HOUSE

DATE & TIME OF START

29-07-2023 @ 11:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	33
4.	Stack temperature	°C	88
5.	Duration of Sampling	minutes	30

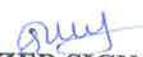
EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.4	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-07/14

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **NOISE LEVELS**

DATE OF COLLECTION : 25-07-2023 to 29-07-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	69.5	57.9	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	67.6	55.4	
3.	Near South Gate	70.5	59.1	
4.	Near South West Corner	66.7	53.2	
5.	Near North West Corner	65.4	56.8	
6.	Near East Side of Bagging Plant	70.6	67.1	
7.	Back Side of Technical Building	68.9	61.9	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024


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Ref: SVELC/CIL/23-07/15

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **28-07-2023@ 12:30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	33
4.	Stack temperature	°C	184
5.	Velocity	m/s	7.2
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	30.9	-	
4.	Carbon Dioxide – CO ₂	%	1.69	-	
5.	Carbon Monoxide – CO	ppm	1.54	-	
6.	Oxygen – O ₂	%	2.28	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-07/16

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 21-07-2023

DATE OF ANALYSIS COMPLETED : 31-07-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.76	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.56	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	2566	500	2000
5.	Total Hardness	mg/l	1553	200	600
6.	Calcium as Ca	mg/l	218	75.0	200
7.	Magnesium as Mg	mg/l	245	30.0	100
8.	Total Alkalinity	mg/l	754	200	600
9.	Sulphates as SO ₄	mg/l	469	200	400
10.	Iron as Fe	mg/l	0.20	0.3	No relaxation
11.	Phosphates as P	mg/l	0.57	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.65	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	12.1	45	No relaxation
15.	Fluoride as F	mg/l	1.48	1.0	1.5


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Ref: SVELC/CIL/23-07/17

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 21-07-2023

DATE OF ANALYSIS COMPLETED : 31-07-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.25	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.10	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	2323	500	2000
5.	Total Hardness	mg/l	1370	200	600
6.	Calcium as Ca	mg/l	196	75.0	200
7.	Magnesium as Mg	mg/l	214	30.0	100
8.	Total Alkalinity	mg/l	619	200	600
9.	Sulphates as SO ₄	mg/l	425	200	400
10.	Iron as Fe	mg/l	0.22	0.3	No relaxation
11.	Phosphates as P	mg/l	0.83	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.01	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	9.53	45	No relaxation
15.	Fluoride as F	mg/l	0.85	1.0	1.5


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Ref: SVELC/CIL/23-07/18

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WATER**

SAMPLE PARTICULARS : **GROUND WATER**

SOURCE OF COLLECTION : **NEAR SULPHURIC STORAGE TANK**

DATE OF COLLECTION : **21-07-2023**

DATE OF ANALYSIS COMPLETED : **31-07-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.02	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	2.03	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	26564	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	4693	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	660	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1217	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1360	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	3952	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.26	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.28	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.69	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.98	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	9.10	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	2.2	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-07/19

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : POTABLE WATER

SOURCE OF COLLECTION : EMPLOYEES CANTEEN

DATE OF COLLECTION : 21-07-2023

DATE OF ANALYSIS COMPLETED : 31-07-2023

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Colour	Hazen	< 1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	<0.01	1.0
5.	pH	-	7.65	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	132	500
7.	Total Alkalinity as CaCO ₃	mg/l	61.6	200
8.	Total Hardness as CaCO ₃	mg/l	58.3	200
9.	Calcium as Ca	mg/l	13.5	75
10.	Magnesium as Mg	mg/l	5.98	30
11.	Chlorides as Cl	mg/l	49.5	250
12.	Fluorides as F	mg/l	0.09	1.0
13.	Nitrates as NO ₃	mg/l	1.26	45
14.	Sulphates as SO ₄	mg/l	15.8	200
15.	Iron as Fe	mg/l	<0.01	0.3
16.	Free Residual Chlorine	mg/l	< 0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	< 0.01	0.05
19.	Manganese as Mn	mg/l	< 0.01	0.1
20.	Zinc as Zn	mg/l	< 0.01	5.0
21.	Aluminum as Al	mg/l	< 0.01	0.03
22.	Boron as B	mg/l	< 0.1	0.5
23.	Sulphide as H ₂ S	mg/l	< 0.01	0.05
24.	Anionic Detergents (as MBAS)	mg/l	< 0.01	0.2
25.	Barium as Ba	mg/l	< 0.1	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	< 0.01	0.5
28.	Mineral Oil	mg/l	< 0.01	0.5



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29.	Selenium as Se	mg/l	< 0.005	0.01
30.	Silver as Ag	mg/l	< 0.01	0.1
MICROBIOLOGY:				
31.	<i>E. coli</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	<i>Total Coliform</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.


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Ref: SVELC/CIL/23-07/20

Date: 03-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : POTABLE WATER

SOURCE OF COLLECTION : MAIN GATE

DATE OF COLLECTION : 21-07-2023

DATE OF ANALYSIS COMPLETED : 31-07-2023

TEST REPORT

S.No	Parameter	Unit	Result	IS 10500:2012 Specifications
1.	Colour	Hazen	< 1.0	5.0
2.	Odour	-	Agreeable	Agreeable
3.	Taste	-	Agreeable	Agreeable
4.	Turbidity	NTU	<0.01	1.0
5.	pH	-	7.60	6.5 – 8.5
6.	Total Dissolved Solids	mg/l	106	500
7.	Total Alkalinity as CaCO ₃	mg/l	52.6	200
8.	Total Hardness as CaCO ₃	mg/l	45.7	200
9.	Calcium as Ca	mg/l	10.3	75
10.	Magnesium as Mg	mg/l	4.86	30
11.	Chlorides as Cl	mg/l	40.3	250
12.	Fluorides as F	mg/l	0.08	1.0
13.	Nitrates as NO ₃	mg/l	1.03	45
14.	Sulphates as SO ₄	mg/l	13.5	200
15.	Iron as Fe	mg/l	<0.01	0.3
16.	Free Residual Chlorine	mg/l	< 0.1	0.2
17.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	Nil	0.001
18.	Copper as Cu	mg/l	< 0.01	0.05
19.	Manganese as Mn	mg/l	< 0.01	0.1
20.	Zinc as Zn	mg/l	< 0.01	5.0
21.	Aluminum as Al	mg/l	< 0.01	0.03
22.	Boron as B	mg/l	< 0.1	0.5
23.	Sulphide as H ₂ S	mg/l	< 0.01	0.05
24.	Anionic Detergents (as MBAS)	mg/l	< 0.01	0.2
25.	Barium as Ba	mg/l	< 0.1	0.7
26.	Chloramines (as Cl ₂)	mg/l	<1.0	4.0
27.	Ammonia as total ammonia-N	mg/l	< 0.01	0.5
28.	Mineral Oil	mg/l	< 0.01	0.5



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29.	Selenium as Se	mg/l	< 0.005	0.01
30.	Silver as Ag	mg/l	< 0.01	0.1
MICROBIOLOGY:				
31.	<i>E. coli</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml
32.	<i>Total Coliform</i>	CFU/ 100mL	Not Detected	Shall not be detected in 100 ml

Note: All the above parameters are tested as per APHA methods, 23rd Edition, 2017

Remarks: As per the above report, all the parameters are within IS 10500:2012 Drinking Water Specifications.


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Ref: SVELC/CIL/23-08/04

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR GUEST HOUSE**

DATE & TIME OF START : **24-08-2023 @ 09.30 hr**

DURATION OF SAMPLING : **24 hours**

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	63.6	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	24.8	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	12.4	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	14.2	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	45.9	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-08/05

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR KORINGA WILDLIFE SANCTUARY**

DATE & TIME OF START : **25-08-2023 @ 10.15 hr**

DURATION OF SAMPLING : **24 hours**

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	65.9	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	26.2	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	13.8	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	12.4	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	42.7	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-02/05

Date: 31-08-2023

NAME AND ADDRESS

: **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

: **STACK EMISSIONS**

SOURCE OF COLLECTION

: **A - TRAIN OF NPK (PRODUCT 15:15:15)**

DATE & TIME OF START

: **14-08-2023 @ 10.00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	90
5.	Exit Velocity	m/sec	12.6
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	58.1	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	114	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.98	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-08/06

Date: 31-08-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START : 14-08-2023 @ 11.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	32
4.	Stack temperature	°C	88
5.	Exit Velocity	m/sec	13.2
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	60.7	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	142	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.54	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-08/07

Date: 31-08-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START : 14-08-2023 @ 12:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	30
4.	Stack temperature	⁰ C	84
5.	Exit Velocity	m/sec	12.3
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	49.8	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	90.2	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.49	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-08/08

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **COOLING TOWER WATER**

DATE OF COLLECTION : **16-08-2023**

DATE OF ANALYSIS COMPLETED : **28-08-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.78	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	694	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	25.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	16.0	IS 3025 P:44
5	COD	mg/l	37.2	APHA, 5220-B, 22 th Ed., 2012
6	OIL & GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/23-08/09

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 16-08-2023

DATE OF ANALYSIS COMPLETED : 28-08-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.28	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	102	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	658	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	263	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	117	IS 3025 P 44
6.	Oil & Grease	mg/l	3.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	15.2	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.12	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	24.9	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.46	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.14	IS.3025, P-52
12.	Fluoride as F	mg/l	0.21	IS.3025, P-60

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Ref: SVELC/CIL/23-08/10

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP OUTLET**

DATE OF COLLECTION : **16-08-2023**

DATE OF ANALYSIS COMPLETED : **28-08-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.61	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	17.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	574	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	63.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	19.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	7.34	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.06	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	11.3	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.74	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.58	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.51	2.0	IS.3025, P-60


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Ref: SVELC/CIL/23-08/01

Date: 31-08-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-08-2023	75.1	32.8	17.2	16.4	64.9	<20
07-08-2023	73.4	31.6	15.7	14.9	61.5	<20
08-08-2023	71.8	30.2	15.3	13.1	59.3	<20
14-08-2023	74.2	31.0	16.1	15.4	63.7	<20
15-08-2023	72.7	29.6	15.4	14.1	58.3	<20
16-08-2023	70.1	28.3	15.8	14.6	55.8	<20
22-08-2023	72.3	30.8	15.0	13.5	60.9	<20
28-08-2023	68.5	27.2	14.9	13.4	58.1	<20
29-08-2023	71.2	29.1	16.2	14.6	62.7	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-08/02

Date: 31-08-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR TXR POINT

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-08-2023	76.4	33.7	16.9	15.4	65.3	33.7
07-08-2023	73.1	31.5	15.4	14.1	62.6	31.2
08-08-2023	71.8	30.4	14.8	13.9	59.2	29.1
14-08-2023	75.3	32.9	16.1	15.7	63.5	32.6
15-08-2023	73.5	30.7	15.3	14.4	58.8	30.2
16-08-2023	72.7	29.2	16.5	15.0	60.3	31.7
22-08-2023	69.2	29.1	14.9	14.3	56.7	30.1
28-08-2023	68.1	27.9	14.2	13.8	57.1	29.4
29-08-2023	71.5	30.2	15.3	14.0	61.4	31.6
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-08/03

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR MRSS**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-08-2023	77.6	36.4	17.1	16.5	66.2	34.9
07-08-2023	74.2	33.8	16.4	14.3	63.4	32.6
08-08-2023	72.8	32.7	15.6	14.5	60.8	31.2
14-08-2023	75.1	34.3	16.2	15.7	64.1	33.9
15-08-2023	73.5	31.8	15.1	14.2	61.7	30.1
16-08-2023	71.3	30.5	16.0	14.9	58.3	28.2
22-08-2023	69.7	29.1	15.4	13.1	61.0	30.8
28-08-2023	67.2	27.9	13.8	12.6	56.7	26.4
29-08-2023	70.6	30.1	15.9	14.8	59.4	30.1
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-08/11

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - II**

DATE & TIME OF START : **15-08-2023 @ 10.00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	86
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	54.6	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-08/12

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - III**

DATE & TIME OF START : **15-08-2023 @ 11.00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	95
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	50.9	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-08/13

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **SCREEN HOUSE**

DATE & TIME OF START : **16-08-2023 @ 10:30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	32
4.	Stack temperature	°C	84
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	52.3	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-08/14

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **NOISE LEVELS**

DATE OF COLLECTION : **14-08-2023 to 16-08-2023**

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	70.8	59.1	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	69.0	57.4	
3.	Near South Gate	71.7	60.5	
4.	Near South West Corner	67.9	54.2	
5.	Near North West Corner	66.5	58.7	
6.	Near East Side of Bagging Plant	69.2	65.9	
7.	Back Side of Technical Building	66.0	59.8	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024



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Ref: SVELC/CIL/23-08/15

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **16-08-2023@ 12:30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	32
4.	Stack temperature	°C	176
5.	Velocity	m/s	6.80
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	31.9	-	
4.	Carbon Dioxide – CO ₂	%	1.82	-	
5.	Carbon Monoxide – CO	ppm	1.42	-	
6.	Oxygen – O ₂	%	2.36	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-08/16

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 16-08-2023

DATE OF ANALYSIS COMPLETED : 28-08-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.94	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.12	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	2148	500	2000
5.	Total Hardness	mg/l	1336	200	600
6.	Calcium as Ca	mg/l	192	75.0	200
7.	Magnesium as Mg	mg/l	208	30.0	100
8.	Total Alkalinity	mg/l	674	200	600
9.	Sulphates as SO ₄	mg/l	443	200	400
10.	Iron as Fe	mg/l	0.21	0.3	No relaxation
11.	Phosphates as P	mg/l	0.68	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.71	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	12.7	45	No relaxation
15.	Fluoride as F	mg/l	1.20	1.0	1.5


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Ref: SVELC/CIL/23-08/17

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 16-08-2023

DATE OF ANALYSIS COMPLETED : 28-08-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.48	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.16	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	2086	500	2000
5.	Total Hardness	mg/l	1317	200	600
6.	Calcium as Ca	mg/l	179	75.0	200
7.	Magnesium as Mg	mg/l	198	30.0	100
8.	Total Alkalinity	mg/l	601	200	600
9.	Sulphates as SO ₄	mg/l	399	200	400
10.	Iron as Fe	mg/l	0.19	0.3	No relaxation
11.	Phosphates as P	mg/l	0.87	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.05	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	10.4	45	No relaxation
15.	Fluoride as F	mg/l	0.76	1.0	1.5


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Ref: SVELC/CIL/23-08/18

Date: 31-08-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

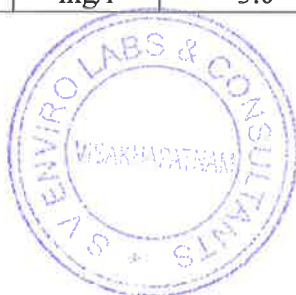
DATE OF COLLECTION : 16-08-2023

DATE OF ANALYSIS COMPLETED : 28-08-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.29	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	2.31	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	26987	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	6788	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	681	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1236	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1564	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	3992	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.29	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.34	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.60	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.91	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	8.06	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	3.0	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-09/04

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR GUEST HOUSE**

DATE & TIME OF START : **22-09-2023 @ 09.45 hr**

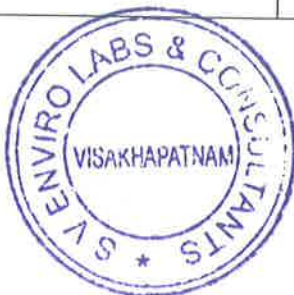
DURATION OF SAMPLING : **24 hours**

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	59.6	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	22.8	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	11.2	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	13.4	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	42.7	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-09/05

Date: 29-09-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 23-09-2023 @ 10.30 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	62.5	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	25.3	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	13.1	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	12.6	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	39.8	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-09/05

Date: 29-09-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : A - TRAIN OF NPK (PRODUCT 15:15:15)

DATE & TIME OF START : 18-09-2023 @ 10.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	96
5.	Exit Velocity	m/sec	13.1
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	41.9	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	58.6	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.21	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-09/06

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **B - TRAIN OF NPK (PRODUCT 20:20:0:13)**

DATE & TIME OF START : **18-09-2023 @ 11.00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	81
5.	Exit Velocity	m/sec	12.7
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	58.4	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	167	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.71	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-09/07

Date: 29-09-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START : 19-09-2023 @ 10:15 hr

TEST REPORT

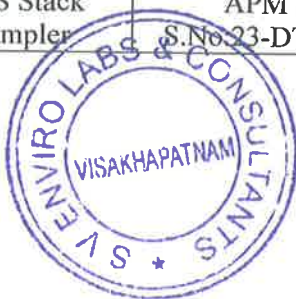
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	89
5.	Exit Velocity	m/sec	12.9
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	44.2	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	93.7	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.68	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No.23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-09/08

Date: 29-09-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 18-09-2023

DATE OF ANALYSIS COMPLETED : 28-09-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.84	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	641	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	23.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	14.0	IS 3025 P:44
5	COD	mg/l	36.2	APHA, 5220-B, 22 th Ed., 2012
6	OIL & GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/23-09/09

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
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SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP INLET**

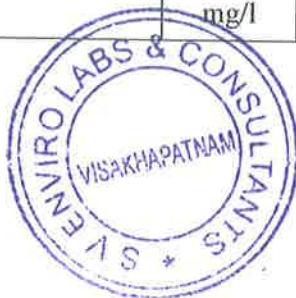
DATE OF COLLECTION : **18-09-2023**

DATE OF ANALYSIS COMPLETED : **28-09-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.09	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	116	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	764	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	281	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	123	IS 3025 P 44
6.	Oil & Grease	mg/l	3.2	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	16.1	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.14	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	26.8	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.79	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.41	IS.3025, P-52
12.	Fluoride as F	mg/l	0.37	IS.3025, P-60

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Ref: SVELC/CIL/23-09/10

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP OUTLET**

DATE OF COLLECTION : **18-09-2023**

DATE OF ANALYSIS COMPLETED : **28-09-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.48	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	19.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	627	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	68.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	20.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	7.12	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.04	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	10.2	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.59	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.51	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.46	2.0	IS.3025, P-60

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Ref: SVELC/CIL/23-09/01

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR EMERGENCY CONTROL ROOM**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-09-2023	71.5	30.8	16.8	15.2	63.7	<20
04-09-2023	70.2	29.6	15.3	14.1	60.5	<20
05-09-2023	68.7	27.5	14.2	13.9	57.8	<20
11-09-2023	70.9	30.2	15.6	14.5	60.0	<20
12-09-2023	69.6	28.1	14.8	13.2	56.9	<20
18-09-2023	68.1	27.9	15.2	14.0	54.1	<20
19-09-2023	69.8	29.6	14.5	12.3	59.4	<20
25-09-2023	66.3	26.2	14.1	12.7	56.8	<20
26-09-2023	71.9	30.4	16.7	15.5	63.2	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-09/02

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR TXR POINT**

DURATION OF SAMPLING : **24 hours**

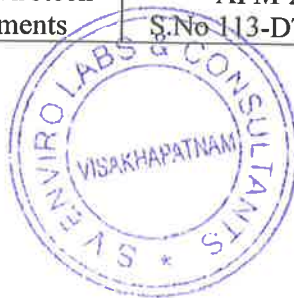
ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-09-2023	72.6	32.4	15.2	14.5	63.1	32.4
04-09-2023	71.2	30.9	15.7	13.4	61.7	30.9
05-09-2023	69.8	29.1	14.3	13.1	58.9	28.2
11-09-2023	71.9	30.3	15.5	14.9	62.4	31.6
12-09-2023	70.4	29.5	14.1	14.4	57.9	28.8
18-09-2023	68.6	27.8	15.6	14.0	58.2	29.3
19-09-2023	69.3	28.5	13.9	13.2	54.7	28.4
25-09-2023	67.7	26.9	12.7	13.8	55.8	27.1
26-09-2023	68.5	29.2	14.4	13.6	59.1	30.9
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-09/03

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR MRSS**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-09-2023	73.4	34.1	16.6	15.2	63.8	33.5
04-09-2023	71.6	32.8	15.3	14.8	61.4	31.2
05-09-2023	70.9	31.2	15.9	13.6	58.9	30.1
11-09-2023	71.8	33.4	16.1	15.3	62.5	33.0
12-09-2023	72.3	30.9	14.4	13.9	59.8	28.7
18-09-2023	70.1	31.6	15.3	14.1	56.2	27.4
19-09-2023	68.7	27.5	14.8	12.5	59.4	29.8
25-09-2023	66.4	27.1	13.4	12.8	55.6	25.3
26-09-2023	69.2	29.7	15.1	13.7	57.4	30.0
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No-114-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-09/11

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - II**

DATE & TIME OF START : **18-09-2023 @ 12.15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	91
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	50.8	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-09/12

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - III**

DATE & TIME OF START : **18-09-2023 @ 14.00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	86
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	47.6	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-09/13

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **SCREEN HOUSE**

DATE & TIME OF START : **19-09-2023 @ 11:30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	33
4.	Stack temperature	°C	90
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	49.2	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-09/14

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **NOISE LEVELS**

DATE OF COLLECTION : 18-09-2023 to 19-09-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	68.3	57.6	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	67.1	54.9	
3.	Near South Gate	70.9	58.7	
4.	Near South West Corner	65.6	53.4	
5.	Near North West Corner	64.2	56.1	
6.	Near East Side of Bagging Plant	69.8	64.5	
7.	Back Side of Technical Building	67.9	62.4	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024

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Ref: SVELC/CIL/23-09/15

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **18-09-2023 @ 15:30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	33
4.	Stack temperature	°C	187
5.	Velocity	m/s	7.14
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	29.7	-	
4.	Carbon Dioxide – CO ₂	%	1.54	-	
5.	Carbon Monoxide – CO	ppm	1.49	-	
6.	Oxygen – O ₂	%	2.21	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-09/16

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 18-09-2023

DATE OF ANALYSIS COMPLETED : 28-09-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.68	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.42	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	2486	500	2000
5.	Total Hardness	mg/l	1499	200	600
6.	Calcium as Ca	mg/l	206	75.0	200
7.	Magnesium as Mg	mg/l	239	30.0	100
8.	Total Alkalinity	mg/l	742	200	600
9.	Sulphates as SO ₄	mg/l	458	200	400
10.	Iron as Fe	mg/l	0.22	0.3	No relaxation
11.	Phosphates as P	mg/l	0.53	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.65	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	11.8	45	No relaxation
15.	Fluoride as F	mg/l	1.36	1.0	1.5

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Ref: SVELC/CIL/23-09/17

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 18-09-2023

DATE OF ANALYSIS COMPLETED : 28-09-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.21	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.08	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	2198	500	2000
5.	Total Hardness	mg/l	1340	200	600
6.	Calcium as Ca	mg/l	192	75.0	200
7.	Magnesium as Mg	mg/l	209	30.0	100
8.	Total Alkalinity	mg/l	632	200	600
9.	Sulphates as SO ₄	mg/l	418	200	400
10.	Iron as Fe	mg/l	0.21	0.3	No relaxation
11.	Phosphates as P	mg/l	0.79	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.0	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	9.91	45	No relaxation
15.	Fluoride as F	mg/l	0.83	1.0	1.5

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Ref: SVELC/CIL/23-09/18

Date: 29-09-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 18-09-2023

DATE OF ANALYSIS COMPLETED : 28-09-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.06	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.98	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	25739	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	6487	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	649	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1182	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1410	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	3876	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.27	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.19	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.72	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.97	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	8.71	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	2.8	1.0	APHA, 4500-FD, 23rd Ed.,

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Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.

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Ref: SVELC/CIL/23-10/04

Date: 03-11-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR GUEST HOUSE

DATE & TIME OF START : 24-10-2023 @ 10.10 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	62.8	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	24.3	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	12.9	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	14.6	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	46.1	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-10/05

Date: 03-11-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

AMBIENT AIR QUALITY

SOURCE OF COLLECTION

NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START

25-10-2023 @ 11.00 hr

DURATION OF SAMPLING

24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	66.1	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	27.5	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	14.2	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	13.7	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	43.4	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-10/05

Date: 03-11-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

A - TRAIN OF NPK (PRODUCT 15:15:15)

DATE & TIME OF START

16-10-2023 @ 10.15 hr

TEST REPORT

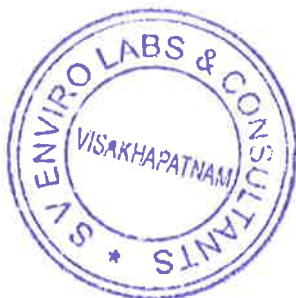
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	87
5.	Exit Velocity	m/sec	11.9
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	54.7	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	102	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.69	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-10/06

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **B - TRAIN OF NPK (PRODUCT 20:20:0:13)**

DATE & TIME OF START : **16-10-2023 @ 11.15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	32
4.	Stack temperature	°C	91
5.	Exit Velocity	m/sec	12.2
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	61.2	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	134	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.48	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-10/07

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **C - TRAIN OF NPK (PRODUCT:10:26:26)**

DATE & TIME OF START : **19-10-2023 @ 10:00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	81
5.	Exit Velocity	m/sec	11.4
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	48.6	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	89.4	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.42	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-10/08

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **COOLING TOWER WATER**

DATE OF COLLECTION : **19-10-2023**

DATE OF ANALYSIS COMPLETED : **30-10-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.58	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	712	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	26.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	15.0	IS 3025 P:44
5	COD	mg/l	38.9	APHA, 5220-B, 22 th Ed., 2012
6	OIL & GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/23-10/09

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP INLET**

DATE OF COLLECTION : **19-10-2023**

DATE OF ANALYSIS COMPLETED : **30-10-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.36	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	98.0	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	607	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	231	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	102	IS 3025 P 44
6.	Oil & Grease	mg/l	2.8	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	14.7	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.11	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	23.5	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.38	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.09	IS.3025, P-52
12.	Fluoride as F	mg/l	0.26	IS.3025, P-60

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Ref: SVELC/CIL/23-10/10

Date: 03-11-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP OUTLET

DATE OF COLLECTION : 19-10-2023

DATE OF ANALYSIS COMPLETED : 30-10-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.63	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	16.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	562	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	59.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	18.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	6.89	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.05	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	11.9	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.78	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.63	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.54	2.0	IS.3025, P-60

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Ref: SVELC/CIL/23-10/01

Date: 03-11-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
02-10-2023	70.1	31.5	17.6	16.3	65.1	<20
07-10-2023	71.6	32.9	15.8	14.5	62.7	<20
09-10-2023	69.8	30.4	14.9	13.1	58.4	<20
14-10-2023	72.5	33.7	16.4	15.6	62.9	<20
16-10-2023	71.7	29.5	15.1	14.9	57.6	<20
21-10-2023	68.9	26.8	14.3	13.7	56.2	<20
23-10-2023	70.6	31.2	15.6	13.9	60.4	<20
28-10-2023	67.2	26.7	14.5	13.3	57.8	<20
30-10-2023	69.1	30.5	16.4	15.1	61.6	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2023	30-09-2024

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Ref: SVELC/CIL/23-10/02

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR TXR POINT**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
02-10-2023	74.2	33.5	16.4	15.7	64.9	33.1
07-10-2023	72.5	31.7	15.9	14.2	61.7	32.4
09-10-2023	71.1	30.9	14.6	13.8	59.3	29.6
14-10-2023	73.8	32.6	16.1	15.4	63.8	32.2
16-10-2023	71.7	30.3	14.9	13.6	59.5	29.3
21-10-2023	69.5	30.1	15.2	14.1	60.7	30.8
23-10-2023	70.1	29.4	14.5	13.7	57.1	28.9
28-10-2023	66.9	27.6	12.9	13.2	56.4	25.6
30-10-2023	67.5	28.9	14.7	13.9	60.7	30.1
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023


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Ref: SVELC/CIL/23-10/03

Date: 03-11-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS

AMBIENT AIR QUALITY

SOURCE OF COLLECTION

NEAR MRSS

DURATION OF SAMPLING

24 hours

ATMOSPHERE CONDITION

Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
02-10-2023	74.8	35.1	17.6	16.8	64.2	34.1
07-10-2023	72.5	33.4	16.9	15.2	62.7	32.4
09-10-2023	71.6	32.7	15.2	14.7	59.8	31.6
14-10-2023	73.2	32.5	16.7	15.9	63.5	32.9
16-10-2023	70.9	31.2	15.5	14.1	60.4	29.7
21-10-2023	71.7	32.1	16.3	15.4	57.2	28.1
23-10-2023	69.3	30.6	15.9	14.6	60.8	30.2
28-10-2023	67.5	28.3	14.4	13.2	56.7	26.5
30-10-2023	70.8	31.5	15.6	14.1	59.3	31.4
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2023	30-09-2024

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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

Corporate Office & Laboratory : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012.
Hyderabad: Flat No. 302, H.No. 7-1-396/B/12, Sai Ram Residency, Balkampet Road, S.R.Nagar, Hyderabad-500038.
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Ref: SVELC/CIL/23-10/11

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - II**

DATE & TIME OF START : **18-10-2023 @ 10.15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	84
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	53.2	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-10/12

Date: 03-11-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

STACK EMISSIONS

SOURCE OF COLLECTION

BAGGING PLANT - III

DATE & TIME OF START

18-10-2023 @ 11.15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	32
4.	Stack temperature	°C	98
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.3	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023

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Ref: SVELC/CIL/23-10/13

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **SCREEN HOUSE**

DATE & TIME OF START : **19-10-2023 @ 11:30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	82
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.6	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-10/14

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **NOISE LEVELS**

DATE OF COLLECTION : 18-10-2023 to 19-10-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	69.5	58.2	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	68.2	56.7	
3.	Near South Gate	72.1	63.5	
4.	Near South West Corner	66.8	55.1	
5.	Near North West Corner	65.7	58.9	
6.	Near East Side of Bagging Plant	70.3	65.2	
7.	Back Side of Technical Building	68.9	63.7	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024




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Ref: SVELC/CIL/23-10/15

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **18-10-2023 @ 14:30 hr**

TEST REPORT

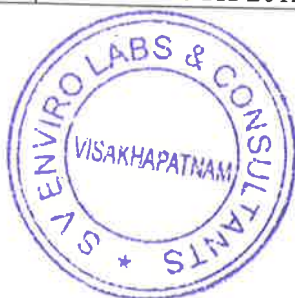
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	171
5.	Velocity	m/s	6.97
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	32.7	-	
4.	Carbon Dioxide – CO ₂	%	1.98	-	
5.	Carbon Monoxide – CO	ppm	1.33	-	
6.	Oxygen – O ₂	%	2.54	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-10/16

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 19-10-2023

DATE OF ANALYSIS COMPLETED : 30-10-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.91	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.08	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1995	500	2000
5.	Total Hardness	mg/l	1297	200	600
6.	Calcium as Ca	mg/l	188	75.0	200
7.	Magnesium as Mg	mg/l	201	30.0	100
8.	Total Alkalinity	mg/l	643	200	600
9.	Sulphates as SO ₄	mg/l	427	200	400
10.	Iron as Fe	mg/l	0.19	0.3	No relaxation
11.	Phosphates as P	mg/l	0.61	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.73	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	12.2	45	No relaxation
15.	Fluoride as F	mg/l	1.18	1.0	1.5


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Ref: SVELC/CIL/23-10/17

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 19-10-2023

DATE OF ANALYSIS COMPLETED : 30-10-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.51	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.18	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1874	500	2000
5.	Total Hardness	mg/l	1228	200	600
6.	Calcium as Ca	mg/l	172	75.0	200
7.	Magnesium as Mg	mg/l	194	30.0	100
8.	Total Alkalinity	mg/l	587	200	600
9.	Sulphates as SO ₄	mg/l	374	200	400
10.	Iron as Fe	mg/l	0.18	0.3	No relaxation
11.	Phosphates as P	mg/l	0.82	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.15	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	10.8	45	No relaxation
15.	Fluoride as F	mg/l	0.69	1.0	1.5


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Ref: SVELC/CIL/23-10/18

Date: 03-11-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 19-10-2023

DATE OF ANALYSIS COMPLETED : 30-10-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.22	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	2.14	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	27581	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	6998	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	694	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1279	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1607	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	4051	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.30	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.43	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.68	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.84	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	7.92	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	3.2	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/23-11/04

Date: 05-12-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR GUEST HOUSE

DATE & TIME OF START : 22-11-2023 @ 10.00 hr

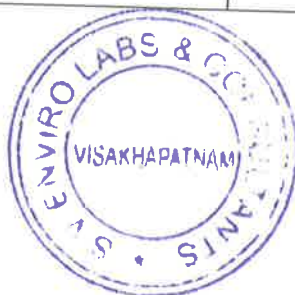
DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	58.3	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	21.7	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	11.0	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	12.6	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	40.8	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-11/05

Date: 05-12-2023

NAME AND ADDRESS

M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

AMBIENT AIR QUALITY

SOURCE OF COLLECTION

NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START

23-11-2023 @ 11.20 hr

DURATION OF SAMPLING

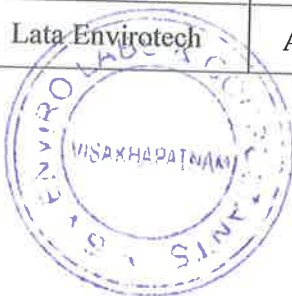
24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	61.9	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	24.6	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	12.9	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	13.1	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	38.4	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-11/05

Date: 05-12-2023

NAME AND ADDRESS

: M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS

: STACK EMISSIONS

SOURCE OF COLLECTION

: A - TRAIN OF NPK (PRODUCT 15:15:15)

DATE & TIME OF START

: 20-11-2023 @ 10.10 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	98
5.	Exit Velocity	m/sec	12.6
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.8	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	94.2	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.06	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/CIL/23-11/06

Date: 05-12-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START : 20-11-2023 @ 11.10 hr

TEST REPORT

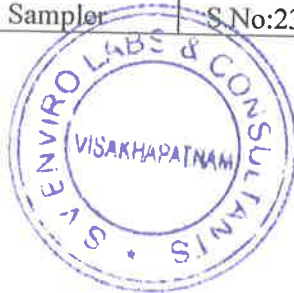
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	86
5.	Exit Velocity	m/sec	11.4
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	56.8	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	152	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.61	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2022	07/11/2023


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Ref: SVELC/CIL/23-11/07

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **C - TRAIN OF NPK (PRODUCT:10:26:26)**

DATE & TIME OF START : **21-11-2023 @ 10:15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	90
5.	Exit Velocity	m/sec	12.2
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	46.2	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	84.7	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.59	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/23-11/08

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **COOLING TOWER WATER**

DATE OF COLLECTION : **21-11-2023**

DATE OF ANALYSIS COMPLETED : **02-12-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.71	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	594	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	19.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	12.0	IS 3025 P:44
5	COD	mg/l	35.0	APHA, 5220-B, 22 th Ed., 2012
6	OIL& GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017

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Ref: SVELC/CIL/23-11/09

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 21-11-2023

DATE OF ANALYSIS COMPLETED : 02-12-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.02	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	121	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	724	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	267	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	115	IS 3025 P 44
6.	Oil & Grease	mg/l	3.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	15.9	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.13	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	25.7	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.84	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.36	IS.3025, P-52
12.	Fluoride as F	mg/l	0.32	IS.3025, P-60

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Ref: SVELC/CIL/23-11/10

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP OUTLET**

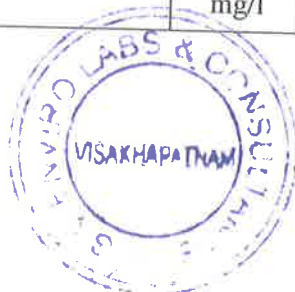
DATE OF COLLECTION : **21-11-2023**

DATE OF ANALYSIS COMPLETED : **02-12-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.31	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	18.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	648	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	66.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	23.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	7.54	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.03	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	11.2	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.51	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.48	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.43	2.0	IS.3025, P-60

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Ref: SVELC/CIL/23-11/01

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR EMERGENCY CONTROL ROOM**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
04-11-2023	72.3	33.1	16.4	15.7	64.1	<20
06-11-2023	70.9	31.6	15.1	14.5	61.4	<20
11-11-2023	71.5	30.9	15.8	14.3	59.6	<20
13-11-2023	70.2	29.8	14.9	13.7	60.4	<20
18-11-2023	69.1	29.3	15.4	14.8	58.7	<20
20-11-2023	67.9	28.5	14.2	13.4	55.9	<20
25-11-2023	68.6	30.1	15.7	14.0	59.2	<20
27-11-2023	65.4	27.3	13.9	12.5	54.6	<20
30-11-2023	66.8	28.7	14.5	13.7	62.4	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No H2-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/23-11/02

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR TXR POINT**

DURATION OF SAMPLING : **24 hours**

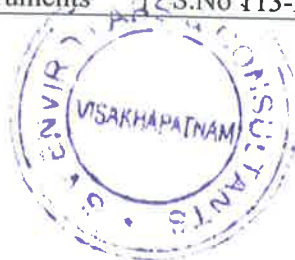
ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
04-11-2023	73.1	32.6	15.8	14.2	62.7	31.9
06-11-2023	71.6	30.5	15.1	14.6	60.4	29.7
11-11-2023	70.2	31.1	16.2	15.4	63.1	30.4
13-11-2023	72.7	33.4	16.9	15.7	65.8	33.1
18-11-2023	70.5	29.2	15.3	14.5	61.6	30.8
20-11-2023	68.1	29.6	14.8	13.2	59.5	28.3
25-11-2023	69.8	30.5	14.1	13.4	58.6	29.7
27-11-2023	68.9	29.7	13.4	12.6	57.9	26.2
30-11-2023	66.4	27.1	13.1	12.3	56.5	28.9
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/23-11/03

Date: 05-12-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MRSS

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
04-11-2023	72.5	31.9	16.2	15.7	62.9	32.6
06-11-2023	70.9	29.5	15.6	14.2	60.4	30.1
11-11-2023	69.3	30.1	14.9	13.5	58.6	29.3
13-11-2023	71.6	30.5	16.1	15.4	61.9	31.4
18-11-2023	68.8	29.2	14.5	13.1	59.3	28.1
20-11-2023	69.7	30.8	15.3	14.7	56.8	27.5
25-11-2023	67.3	28.6	14.7	13.3	58.1	29.8
27-11-2023	65.9	26.5	13.9	12.6	55.4	25.9
30-11-2023	68.1	28.9	14.6	13.8	57.5	29.2
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/S ^r No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2023	30-09-2024

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Ref: SVELC/CIL/23-11/11

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - II**

DATE & TIME OF START : **21-11-2023 @ 11.15 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	30
4.	Stack temperature	⁰ C	96
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.6	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-11/12

Date: 05-12-2023

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - III

DATE & TIME OF START : 21-11-2023 @ 12.15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	89
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	48.2	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/23-11/13

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **SCREEN HOUSE**

DATE & TIME OF START : **22-11-2023 @ 10:30 hr**

TEST REPORT

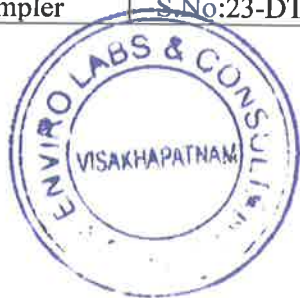
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	93
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	50.8	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/23-11/14

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **NOISE LEVELS**

DATE OF COLLECTION : 20-11-2023 to 21-11-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	70.2	61.5	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	69.8	60.3	
3.	Near South Gate	71.5	65.1	
4.	Near South West Corner	65.3	56.8	
5.	Near North West Corner	64.9	57.4	
6.	Near East Side of Bagging Plant	68.6	62.9	
7.	Back Side of Technical Building	66.7	61.2	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024

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Ref: SVELC/CIL/23-11/15

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **20-11-2023 @ 15:00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	33
4.	Stack temperature	⁰ C	190
5.	Velocity	m/s	7.26
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	30.6	-	
4.	Carbon Dioxide – CO ₂	%	1.42	-	
5.	Carbon Monoxide – CO	ppm	1.54	-	
6.	Oxygen – O ₂	%	2.16	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/23-11/16

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **GROUND WATER**

SOURCE OF COLLECTION : **NEAR AMMONIA STORAGE TANK**

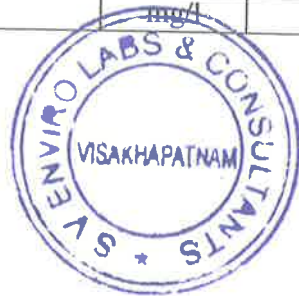
DATE OF COLLECTION : **21-11-2023**

DATE OF ANALYSIS COMPLETED : **02-12-2023**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.57	6.5 – 8.5	No relaxation
2.	Colour	Hazen	0.38	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1588	500	2000
5.	Total Hardness	mg/l	1195	200	600
6.	Calcium as Ca	mg/l	167	75.0	200
7.	Magnesium as Mg	mg/l	189	30.0	100
8.	Total Alkalinity	mg/l	612	200	600
9.	Sulphates as SO ₄	mg/l	398	200	400
10.	Iron as Fe	mg/l	0.16	0.3	No relaxation
11.	Phosphates as P	mg/l	0.48	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.59	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	10.8	45	No relaxation
15.	Fluoride as F	mg/l	1.02	1.0	1.5

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Ref: SVELC/CIL/23-11/17

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 21-11-2023

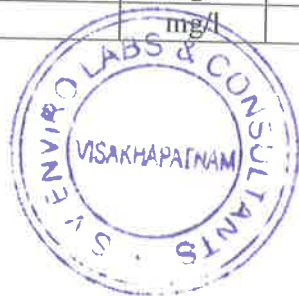
DATE OF ANALYSIS COMPLETED : 02-12-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.12	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.04	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1724	500	2000
5.	Total Hardness	mg/l	1296	200	600
6.	Calcium as Ca	mg/l	186	75.0	200
7.	Magnesium as Mg	mg/l	202	30.0	100
8.	Total Alkalinity	mg/l	598	200	600
9.	Sulphates as SO ₄	mg/l	387	200	400
10.	Iron as Fe	mg/l	0.19	0.3	No relaxation
11.	Phosphates as P	mg/l	0.68	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.96	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	9.42	45	No relaxation
15.	Fluoride as F	mg/l	0.74	1.0	1.5

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Ref: SVELC/CIL/23-11/18

Date: 05-12-2023

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 21-11-2023

DATE OF ANALYSIS COMPLETED : 02-12-2023

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	6.98	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	1.74	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	24991	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	5827	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	591	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1057	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1386	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	3692	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.25	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.13	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.77	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.93	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	8.54	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	2.9	1.0	APHA, 4500-FD, 23rd Ed.,

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Ref: SVELC/CIL/23-12/04

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR GUEST HOUSE**

DATE & TIME OF START : **20-12-2023 @ 10.15 hr**

DURATION OF SAMPLING : **24 hours**

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	63.7	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	25.1	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	13.4	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	14.9	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	47.2	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/23-12/05

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 01-01-2024 @ 11.30 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	65.8	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	28.1	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	14.5	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	13.2	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	44.7	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024

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Ref: SVELC/CIL/23-12/05

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **A - TRAIN OF NPK (PRODUCT 15:15:15)**

DATE & TIME OF START : **20-12-2023 @ 10.00 hr**

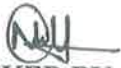
TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	86
5.	Exit Velocity	m/sec	11.2
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	55.8	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	104	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.76	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-12/06

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **B - TRAIN OF NPK (PRODUCT 20:20:0:13)**

DATE & TIME OF START : **20-12-2023 @ 11.00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	33
4.	Stack temperature	⁰ C	98
5.	Exit Velocity	m/sec	12.7
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	62.8	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	129	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.41	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-12/07

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START : 20-12-2023 @ 10:10 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	86
5.	Exit Velocity	m/sec	11.2
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	49.3	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	91.6	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.38	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-12/08

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 20-12-2023

DATE OF ANALYSIS COMPLETED : 01-01-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.45	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	684	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	24.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	17.0	IS 3025 P:44
5	COD	mg/l	40.0	APHA, 5220-B, 22 th Ed., 2012
6	OIL & GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/23-12/09

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 20-12-2023

DATE OF ANALYSIS COMPLETED : 01-01-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.41	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	91.0	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	591	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	225	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	98.0	IS 3025 P 44
6.	Oil & Grease	mg/l	2.2	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	13.9	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.10	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	21.6	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.11	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.02	IS.3025, P-52
12.	Fluoride as F	mg/l	0.21	IS.3025, P-60


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Ref: SVELC/CIL/23-12/10

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP OUTLET**

DATE OF COLLECTION : **20-12-2023**

DATE OF ANALYSIS COMPLETED : **01-01-2024**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.66	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	14.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	528	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	54.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	17.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	6.01	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.02	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	10.3	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.81	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.59	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.51	2.0	IS.3025, P-60

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Ref: SVELC/CIL/23-12/01

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-01-2024	71.2	32.3	16.1	14.9	59.9	<20
04-12-2023	74.6	35.1	17.4	16.7	65.1	<20
09-12-2023	69.4	29.9	14.7	12.7	58.4	<20
11-12-2023	70.1	33.1	16.5	15.1	61.8	<20
16-12-2023	68.9	29.7	15.6	14.3	58.1	<20
18-12-2023	73.2	34.8	16.7	15.9	57.6	<20
23-12-2023	76.3	37.2	17.8	16.7	65.1	<20
25-12-2023	74.8	36.1	16.7	15.8	62.9	<20
30-12-2023	71.9	34.6	15.9	14.7	64.3	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/23-12/02

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR TXR POINT**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-01-2024	75.1	34.2	15.9	14.7	62.9	33.9
04-12-2023	76.2	35.9	17.5	16.5	65.7	35.2
09-12-2023	73.7	33.5	16.1	15.2	59.6	29.1
11-12-2023	72.9	32.2	15.4	14.9	58.1	30.3
16-12-2023	75.3	33.8	16.8	15.4	62.3	31.8
18-12-2023	72.8	34.2	16.2	14.8	60.1	33.9
23-12-2023	74.6	34.9	16.5	15.2	60.8	32.2
25-12-2023	73.2	32.1	15.5	13.7	65.2	28.6
30-12-2023	69.8	32.5	14.4	12.8	63.5	25.8
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/23-12/03

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MRSS

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-01-2024	75.3	33.5	16.7	15.1	62.5	28.5
04-12-2023	79.2	34.2	17.9	16.2	66.3	28.1
09-12-2023	70.6	31.2	15.8	14.5	58.1	26.2
11-12-2023	72.8	32.5	16.1	14.9	59.2	25.6
16-12-2023	76.3	35.6	17.6	16.9	60.5	27.1
18-12-2023	75.1	34.5	16.2	14.2	57.9	22.3
23-12-2023	72.9	32.7	15.9	14.7	62.1	26.6
25-12-2023	76.2	34.8	16.1	14.2	60.8	28.1
30-12-2023	71.1	32.9	15.5	13.8	64.1	27.6
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/23-12/11

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - II

DATE & TIME OF START : 20-12-2023 @ 11.20 hr

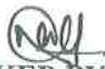
TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	^o C	32
4.	Stack temperature	^o C	81
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	56.1	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-12/12

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - III**

DATE & TIME OF START : **21-12-2023 @ 10.00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	30
4.	Stack temperature	⁰ C	101
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	52.4	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-12/13

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : SCREEN HOUSE

DATE & TIME OF START : 21-12-2023 @ 11:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	84
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	52.9	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-12/14

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **NOISE LEVELS**

DATE OF COLLECTION : 20-12-2023 to 22-12-2023

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	68.2	62.3	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	67.9	60.6	
3.	Near South Gate	70.5	63.9	
4.	Near South West Corner	66.1	55.7	
5.	Near North West Corner	63.8	56.2	
6.	Near East Side of Bagging Plant	69.4	61.8	
7.	Back Side of Technical Building	67.3	62.9	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024

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Ref: SVELC/CIL/23-12/15

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **20-12-2023 @ 15:00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	168
5.	Velocity	m/s	6.54
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	33.8	-	
4.	Carbon Dioxide – CO ₂	%	1.88	-	
5.	Carbon Monoxide – CO	ppm	1.26	-	
6.	Oxygen – O ₂	%	2.51	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/23-12/16

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 20-12-2023

DATE OF ANALYSIS COMPLETED : 01-01-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.84	6.5 – 8.5	No relaxation
2.	Colour	Hazen	0.96	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1607	500	2000
5.	Total Hardness	mg/l	1319	200	600
6.	Calcium as Ca	mg/l	192	75.0	200
7.	Magnesium as Mg	mg/l	204	30.0	100
8.	Total Alkalinity	mg/l	661	200	600
9.	Sulphates as SO ₄	mg/l	438	200	400
10.	Iron as Fe	mg/l	0.21	0.3	No relaxation
11.	Phosphates as P	mg/l	0.59	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.71	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	11.9	45	No relaxation
15.	Fluoride as F	mg/l	1.27	1.0	1.5


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Ref: SVELC/CIL/23-12/17

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 20-12-2023

DATE OF ANALYSIS COMPLETED : 01-01-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.48	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.26	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1794	500	2000
5.	Total Hardness	mg/l	1267	200	600
6.	Calcium as Ca	mg/l	181	75.0	200
7.	Magnesium as Mg	mg/l	198	30.0	100
8.	Total Alkalinity	mg/l	559	200	600
9.	Sulphates as SO ₄	mg/l	361	200	400
10.	Iron as Fe	mg/l	0.16	0.3	No relaxation
11.	Phosphates as P	mg/l	0.72	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.08	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	10.9	45	No relaxation
15.	Fluoride as F	mg/l	0.62	1.0	1.5


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Ref: SVELC/CIL/23-12/18

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 20-12-2023

DATE OF ANALYSIS COMPLETED : 01-01-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	TEST METHOD
1.	pH	-	7.09	6.5 – 8.5	APHA, 4500-H+B, 23rd Ed.,
2.	Colour	Hazen	2.04	5.0	APHA, 2120-C
3.	Odour	-	Agreeable	Agreeable	APHA, 2150 23rd Ed.,
4.	Total Dissolved Solids	mg/l	28152	500	APHA, 2540-C, 23rd Ed.,
5.	Total Hardness	mg/l	7203	200	APHA, 2340-C, 23rd Ed.,
6.	Calcium as Ca	mg/l	702	75.0	APHA, 3500-Ca B, 23rd Ed.,
7.	Magnesium as Mg	mg/l	1324	30.0	APHA, 3500-Mg B, 23rd Ed.,
8.	Total Alkalinity	mg/l	1657	200	APHA - 2320B, 23rd Ed.,
9.	Sulphates as SO ₄	mg/l	4105	200	APHA – 4500 SO ₄ ²⁻ E 23rd Ed.,
10.	Iron as Fe	mg/l	0.31	0.3	APHA 3120 B, 23rd Ed.,
11.	Phosphates as P	mg/l	1.54	-	APHA 4500 C
12.	Total Kjeldahl Nitrogen	mg/l	1.61	-	APHA 4500 N,B 23rd Ed.,
13.	Ammonical Nitrogen	mg/l	0.78	-	APHA, 4500-NH ₃ A-C
14.	Nitrate Nitrogen as NO ₃	mg/l	7.52	45	APHA, 4500-NO ₃ -B, 23rd Ed.,
15.	Fluoride as F	mg/l	3.1	1.0	APHA, 4500-FD, 23rd Ed.,


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Ref: SVELC/CIL/24-01/04

Date: 04-01-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR GUEST HOUSE

DATE & TIME OF START : 23-01-2024 @ 11.15 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	60.3	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	23.7	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	12.5	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	13.4	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	43.9	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2024	04/01/2025

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Ref: SVELC/CIL/24-01/05

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR KORINGA WILDLIFE SANCTUARY**

DATE & TIME OF START : **24-01-2024 @ 12.00 hr**

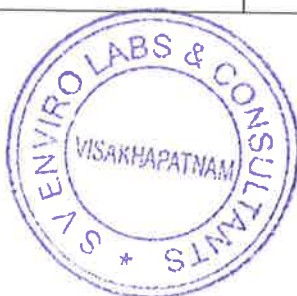
DURATION OF SAMPLING : **24 hours**

TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	62.9	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	23.1	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO ₂	µg/m ³	13.6	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO _x	µg/m ³	14.2	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m ³	39.4	2000	IS-5182 (P-10)
Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/24-01/05

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **A - TRAIN OF NPK (PRODUCT 15:15:15)**

DATE & TIME OF START : **22-01-2024 @ 10.30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	33
4.	Stack temperature	°C	102
5.	Exit Velocity	m/sec	13.7
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	39.5	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	72.7	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.60	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-01/06

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **B - TRAIN OF NPK (PRODUCT 20:20:0:13)**

DATE & TIME OF START : **22-01-2024 @ 11.30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	81
5.	Exit Velocity	m/sec	11.8
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	58.6	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	45.2	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.28	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-01/07

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **C - TRAIN OF NPK (PRODUCT:10:26:26)**

DATE & TIME OF START : **23-01-2024 @ 10:00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	92
5.	Exit Velocity	m/sec	12.7
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	44.7	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	58.6	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.62	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-01/08

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 22-01-2024

DATE OF ANALYSIS COMPLETED : 02-02-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.62	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	528	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	16.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	11.0	IS 3025 P:44
5	COD	mg/l	32.0	APHA, 5220-B, 22 th Ed., 2012
6	OIL & GREASE	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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Ref: SVELC/CIL/24-01/09

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP INLET**

DATE OF COLLECTION : **22-01-2024**

DATE OF ANALYSIS COMPLETED : **02-02-2024**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	6.98	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	116	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	682	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	281	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	112	IS 3025 P 44
6.	Oil & Grease	mg/l	2.8	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	14.5	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.12	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	26.1	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	3.04	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.56	IS.3025, P-52
12.	Fluoride as F	mg/l	0.31	IS.3025, P-60


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Ref: SVELC/CIL/24-01/10

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **WASTE WATER**

SOURCE OF COLLECTION : **STP OUTLET**

DATE OF COLLECTION : **22-01-2024**

DATE OF ANALYSIS COMPLETED : **02-02-2024**

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.25	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	19.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	541	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	61.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	24.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	7.92	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.04	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	11.9	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.63	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.42	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.38	2.0	IS.3025, P-60


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Ref: SVELC/CIL/24-01/01

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR EMERGENCY CONTROL ROOM**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
02-01-2024	67.5	30.6	15.2	14.8	59.3	<20
06-01-2024	76.6	38.2	18.5	17.4	67.8	<20
08-01-2024	63.6	28.5	14.7	13.2	56.2	<20
13-01-2024	73.6	34.1	17.2	16.3	63.2	<20
15-01-2024	70.5	32.6	16.3	15.2	59.9	<20
20-01-2024	71.5	33.6	17.5	16.0	55.5	<20
22-01-2024	77.8	38.1	18.5	17.4	68.3	<20
27-01-2024	76.3	37.4	17.5	16.3	65.6	<20
29-01-2024	74.5	36.6	16.5	16.9	66.4	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/24-01/02

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR TXR POINT**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
02-01-2024	72.3	32.4	16.5	14.7	60.3	32.1
06-01-2024	79.8	37.8	18.1	17.4	66.5	37.5
08-01-2024	71.4	32.0	15.3	14.6	58.8	27.8
13-01-2024	70.3	31.6	14.5	13.2	56.9	28.9
15-01-2024	77.5	35.9	17.4	16.3	64.2	33.6
20-01-2024	73.9	36.5	16.8	15.0	62.3	31.2
22-01-2024	76.6	36.6	17.4	16.0	62.3	34.0
27-01-2024	75.0	34.5	16.3	14.2	69.0	31.0
29-01-2024	65.5	29.0	13.5	11.4	61.2	23.6
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/24-01/03

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada, Andhra Pradesh, India

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY**

SOURCE OF COLLECTION : **NEAR MRSS**

DURATION OF SAMPLING : **24 hours**

ATMOSPHERE CONDITION : **Clear Sky**

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
02-01-2024	72.5	32.1	15.6	14.3	60.5	25.9
06-01-2024	78.8	35.6	18.4	17.3	68.9	29.0
08-01-2024	62.3	27.5	12.3	11.5	50.6	19.6
13-01-2024	70.5	31.2	15.0	13.6	61.5	23.1
15-01-2024	74.5	34.5	18.6	17.4	65.0	30.3
20-01-2024	72.0	32.3	15.0	11.2	60.2	25.6
22-01-2024	75.5	34.0	17.5	16.4	65.9	29.9
27-01-2024	78.5	35.6	16.4	15.2	63.6	29.6
29-01-2024	73.6	34.5	17.5	16.5	68.5	31.2
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/24-01/11

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - II**

DATE & TIME OF START : **23-01-2024 @ 11.30 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	98
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	53.2	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-01/12

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakjnada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **BAGGING PLANT - III**

DATE & TIME OF START : **24-01-2024 @ 10.45 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	92
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	49.6	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-01/13

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **SCREEN HOUSE**

DATE & TIME OF START : **24-01-2024 @ 11:00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	30
4.	Stack temperature	°C	106
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.4	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-01/14

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road,
Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **NOISE LEVELS**

DATE OF COLLECTION : 23-01-2024 to 24-01-2024

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	69.4	64.1	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	68.7	61.9	
3.	Near South Gate	72.3	66.5	
4.	Near South West Corner	65.9	57.2	
5.	Near North West Corner	64.2	55.9	
6.	Near East Side of Bagging Plant	67.5	62.4	
7.	Back Side of Technical Building	65.0	59.8	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024

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Ref: SVELC/CIL/24-01/15

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : **STACK EMISSIONS**

SOURCE OF COLLECTION : **12 TPH BOILER**

DATE & TIME OF START : **24-01-2024 @ 14:00 hr**

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	179
5.	Velocity	m/s	8.06
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	31.5	-	
4.	Carbon Dioxide – CO ₂	%	1.58	-	
5.	Carbon Monoxide – CO	ppm	1.49	-	
6.	Oxygen – O ₂	%	2.02	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-01/16

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 22-01-2024

DATE OF ANALYSIS COMPLETED : 02-02-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.36	6.5 – 8.5	No relaxation
2.	Colour	Hazen	0.32	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1428	500	2000
5.	Total Hardness	mg/l	1117	200	600
6.	Calcium as Ca	mg/l	154	75.0	200
7.	Magnesium as Mg	mg/l	178	30.0	100
8.	Total Alkalinity	mg/l	562	200	600
9.	Sulphates as SO ₄	mg/l	351	200	400
10.	Iron as Fe	mg/l	0.14	0.3	No relaxation
11.	Phosphates as P	mg/l	0.36	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.54	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	10.2	45	No relaxation
15.	Fluoride as F	mg/l	0.98	1.0	1.5


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Ref: SVELC/CIL/24-01/17

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 22-01-2024

DATE OF ANALYSIS COMPLETED : 02-02-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.03	6.5 – 8.5	No relaxation
2.	Colour	Hazen	0.96	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1608	500	2000
5.	Total Hardness	mg/l	1221	200	600
6.	Calcium as Ca	mg/l	174	75.0	200
7.	Magnesium as Mg	mg/l	191	30.0	100
8.	Total Alkalinity	mg/l	495	200	600
9.	Sulphates as SO ₄	mg/l	342	200	400
10.	Iron as Fe	mg/l	0.21	0.3	No relaxation
11.	Phosphates as P	mg/l	0.59	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.91	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	9.02	45	No relaxation
15.	Fluoride as F	mg/l	0.76	1.0	1.5

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Ref: SVELC/CIL/24-01/18

Date: 04-01-2024

NAME AND ADDRESS : **M/s. COROMANDEL INTERNATIONAL LTD,**
Beach Road, Kakinada,
Andhra Pradesh, India

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 22-01-2024

DATE OF ANALYSIS COMPLETED : 02-02-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	6.91	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.28	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	21854	500	2000
5.	Total Hardness	mg/l	6397	200	600
6.	Calcium as Ca	mg/l	628	75.0	200
7.	Magnesium as Mg	mg/l	1173	30.0	100
8.	Total Alkalinity	mg/l	1471	200	600
9.	Sulphates as SO ₄	mg/l	3968	200	400
10.	Iron as Fe	mg/l	0.28	0.3	No relaxation
11.	Phosphates as P	mg/l	1.06	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.44	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	0.96	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	8.71	45	No relaxation
15.	Fluoride as F	mg/l	2.5	1.0	1.5


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Ref: SVELC/CIL/24-02/04

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR GUEST HOUSE

DATE & TIME OF START : 21-02-2024 @ 10.30 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	65.2	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	26.7	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	µg/m ³	14.5	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO _x	µg/m ³	15.1	80	IS:5182(P-6) - Jacob & Hochheiser Method
5.	Carbon Monoxide – CO	µg/m ³	49.3	2000	IS-5182 (P-10)
6.	Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2024	04/01/2025


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Ref: SVELC/CIL/24-02/05

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 22-02-2024 @ 11.15 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	66.2	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	27.9	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	µg/m ³	14.8	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO _x	µg/m ³	13.5	80	IS:5182(P-6) - Jacob & Hochheiser Method
5.	Carbon Monoxide – CO	µg/m ³	46.1	2000	IS-5182 (P-10)
6.	Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/24-02/05

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : A - TRAIN OF NPK (PRODUCT 15:15:15)

DATE & TIME OF START : 22-02-2024 @ 10.15 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	105
5.	Exit Velocity	m/sec	14.3
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	45.1	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	71.6	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.54	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No. 23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/24-02/06

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START : 22-02-2024 @ 11.15 hr

TEST REPORT

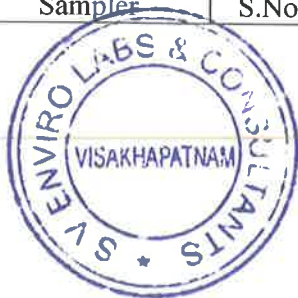
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	89
5.	Exit Velocity	m/sec	12.4
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm^3	53.6	115	IS:11255-P-1
2.	Ammonia – NH_3	mg/Nm^3	228	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm^3	0.55	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/24-02/07

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START : 23-02-2024 @ 10:30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	31
4.	Stack temperature	$^{\circ}\text{C}$	96
5.	Exit Velocity	m/sec	13.2
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	33.9	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	32.5	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.88	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/24-02/08

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 22-02-2024

DATE OF ANALYSIS COMPLETED : 03-03-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD
1	pH	-	7.36	APHA, 4500-H+B, 23rd Ed., 2017
2	Total Dissolved Solids -TDS	mg/l	702	APHA, 2540-C, 23rd Ed., 2017
3	Total Suspended Solids - TSS	mg/l	29.0	APHA, 2540-D, 23rd Ed., 2017
4	Chemical Oxygen Demand – COD	mg/l	48.0	IS 3025 P:44
5	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	19.0	APHA, 5220-B, 22 th Ed., 2012
6	Oil & Grease	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017

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Ref: SVELC/CIL/24-02/09

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 22-02-2024

DATE OF ANALYSIS COMPLETED : 03-03-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.25	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids -TSS	mg/l	88.0	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids – TDS	mg/l	551	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand - COD	mg/l	206	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand - BOD (3 days at 27°C)	mg/l	81.0	IS 3025 P 44
6.	Oil & Grease	mg/l	2.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	12.8	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.09	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjheldal Nitrogen (as NH3)	mg/l	20.4	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.51	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.98	IS.3025, P-52
12.	Fluoride as F	mg/l	0.17	IS.3025, P-60


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Ref: SVELC/CIL/24-02/10

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
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ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP OUTLET

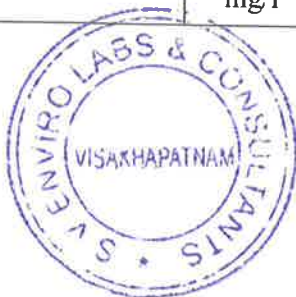
DATE OF COLLECTION : 22-02-2024

DATE OF ANALYSIS COMPLETED : 03-03-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.59	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids – TSS	mg/l	11.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids – TDS	mg/l	492	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand – COD	mg/l	51.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand - BOD (3 days at 27°C)	mg/l	26.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	5.98	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.03	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	9.81	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.75	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.54	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.47	2.0	IS.3025, P-60

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Ref: SVELC/CIL/24-02/01

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-03-2024	70.2	31.8	16.2	15.5	60.4	<20
03-02-2024	73.6	34.5	17.8	16.2	63.0	<20
06-02-2024	68.5	31.0	15.0	14.6	59.3	<20
10-02-2024	71.5	32.6	16.0	15.3	60.9	<20
13-02-2024	67.6	30.0	15.2	14.3	56.0	<20
17-02-2024	74.5	35.2	18.4	17.4	59.6	<20
20-02-2024	75.9	36.0	17.4	16.3	65.0	<20
24-02-2024	73.6	35.4	16.8	15.0	61.2	<20
27-02-2024	70.0	34.5	15.9	15.9	62.3	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No.112-DTA-2019	01-10-2023	30-09-2024

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Ref: SVELC/CIL/24-02/02

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR TXR POINT

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-03-2024	76.5	35.9	17.0	15.2	63.2	34.0
03-02-2024	77.0	36.5	17.9	16.5	65.0	33.0
06-02-2024	74.5	34.5	16.5	15.3	61.9	30.3
10-02-2024	73.2	33.3	15.9	14.3	60.6	31.6
13-02-2024	74.6	34.5	16.0	15.2	61.3	31.3
17-02-2024	77.5	38.5	18.4	16.5	68.9	34.6
20-02-2024	73.6	35.0	16.3	14.8	59.0	32.0
24-02-2024	72.0	33.2	15.6	13.6	67.0	29.1
27-02-2024	68.0	31.5	14.7	12.3	64.5	26.6
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2023	30-09-2024

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Ref: SVELC/CIL/24-02/03

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MRSS

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-03-2024	77.0	34.5	16.2	15.6	63.0	29.6
03-02-2024	76.6	33.2	17.4	16.5	65.9	27.0
06-02-2024	66.9	29.0	13.6	12.5	54.0	21.3
10-02-2024	74.0	33.2	16.5	14.9	65.3	26.9
13-02-2024	71.4	32.5	17.9	16.3	62.3	28.0
17-02-2024	76.9	35.2	17.0	13.9	64.5	29.0
20-02-2024	72.3	32.1	16.5	15.4	62.8	27.0
24-02-2024	75.4	33.3	15.4	14.8	61.3	26.9
27-02-2024	70.3	32.6	16.5	15.3	65.6	29.3
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No. 114-DTA-2019	01-10-2023	30-09-2024

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Ref: SVELC/CIL/24-02/11

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - II

DATE & TIME OF START : 23-02-2024 @ 11.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	33
4.	Stack temperature	⁰ C	86.0
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	60.3	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/24-02/12

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - III

DATE & TIME OF START : 23-02-2024 @ 12.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	106
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	54.2	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-02/13

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : SCREEN HOUSE

DATE & TIME OF START : 24-02-2024 @ 10:30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	32
4.	Stack temperature	⁰ C	94.0
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	52.8	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-02/14

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF COLLECTION : 22-02-2024 to 24-02-2024

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	70.3	63.9	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	66.8	60.2	
3.	Near South Gate	71.2	65.7	
4.	Near South West Corner	67.1	56.4	
5.	Near North West Corner	65.5	57.3	
6.	Near East Side of Bagging Plant	69.4	63.8	
7.	Back Side of Technical Building	66.9	60.6	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024

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Ref: SVELC/CIL/24-02/15

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : 12 TPH BOILER

DATE & TIME OF START : 24-02-2024 @ 12:00 hr

TEST REPORT

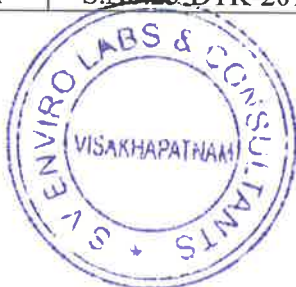
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	34
4.	Stack temperature	°C	161
5.	Velocity	m/s	7.52
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	34.2	-	
4.	Carbon Dioxide – CO ₂	%	2.01	-	
5.	Carbon Monoxide – CO	ppm	1.14	-	
6.	Oxygen – O ₂	%	2.63	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024

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Ref: SVELC/CIL/24-02/16

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : **GROUND WATER**

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

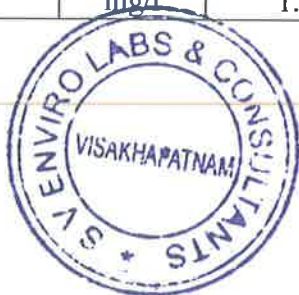
DATE OF COLLECTION : 22-02-2024

DATE OF ANALYSIS COMPLETED : 03-03-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.71	6.5 – 8.5	No relaxation
2.	Colour	Hazen	0.54	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1288	500	2000
5.	Total Hardness	mg/l	1371	200	600
6.	Calcium as Ca	mg/l	198	75.0	200
7.	Magnesium as Mg	mg/l	213	30.0	100
8.	Total Alkalinity	mg/l	684	200	600
9.	Sulphates as SO ₄	mg/l	457	200	400
10.	Iron as Fe	mg/l	0.24	0.3	No relaxation
11.	Phosphates as P	mg/l	0.63	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.75	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	12.1	45	No relaxation
15.	Fluoride as F	mg/l	1.53	1.0	1.5


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Ref: SVELC/CIL/24-02/17

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 22-02-2024

DATE OF ANALYSIS COMPLETED : 03-03-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.53	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.22	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1139	500	2000
5.	Total Hardness	mg/l	1266	200	600
6.	Calcium as Ca	mg/l	184	75.0	200
7.	Magnesium as Mg	mg/l	196	30.0	100
8.	Total Alkalinity	mg/l	572	200	600
9.	Sulphates as SO ₄	mg/l	398	200	400
10.	Iron as Fe	mg/l	0.15	0.3	No relaxation
11.	Phosphates as P	mg/l	0.67	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.04	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	11.2	45	No relaxation
15.	Fluoride as F	mg/l	0.58	1.0	1.5


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Ref: SVELC/CIL/24-02/18

Date: 05-03-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : **WATER**

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 22-02-2024

DATE OF ANALYSIS COMPLETED : 03-03-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.15	6.5 – 8.5	No relaxation
2.	Colour	Hazen	1.96	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	24368	500	2000
5.	Total Hardness	mg/l	7020	200	600
6.	Calcium as Ca	mg/l	721	75.0	200
7.	Magnesium as Mg	mg/l	1268	30.0	100
8.	Total Alkalinity	mg/l	1549	200	600
9.	Sulphates as SO ₄	mg/l	4026	200	400
10.	Iron as Fe	mg/l	0.33	0.3	No relaxation
11.	Phosphates as P	mg/l	1.68	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.75	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	0.70	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	7.21	45	No relaxation
15.	Fluoride as F	mg/l	3.4	1.0	1.5


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Ref: SVELC/CIL/24-03/04

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA.

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR GUEST HOUSE

DATE & TIME OF START : 20-03-2024 @ 10.10 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	61.2	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	24.6	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	µg/m ³	13.7	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO _x	µg/m ³	14.3	80	IS:5182(P-6) - Jacob & Hochheiser Method
5.	Carbon Monoxide – CO	µg/m ³	41.9	2000	IS-5182 (P-10)
6.	Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2024	04/01/2025


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Ref: SVELC/CIL/24-03/05

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR KORINGA WILDLIFE SANCTUARY

DATE & TIME OF START : 21-03-2024 @ 10.45 hr

DURATION OF SAMPLING : 24 hours

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter –PM ₁₀ (size less than 10 microns)	µg/m ³	63.7	100	IS:5182 (P-23) Gravimetric
2.	Particulate Matter –PM _{2.5} (size less than 2.5 microns)	µg/m ³	25.1	60	IS:5182 (P-24) Gravimetric
3.	Sulphur Dioxide – SO ₂	µg/m ³	12.9	80	IS:5182 (P-2)- West and Gaeke Method
4.	Oxides of Nitrogen - NO _x	µg/m ³	13.5	80	IS:5182(P-6) - Jacob & Hochheiser Method
5.	Carbon Monoxide – CO	µg/m ³	37.4	2000	IS-5182 (P-10)
6.	Ammonia – NH ₃	µg/m ³	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	05/01/2023	04/01/2024


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Ref: SVELC/CIL/24-03/05

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : A - TRAIN OF NPK (PRODUCT 15:15:15)

DATE & TIME OF START : 20-03-2024 @ 10.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	34
4.	Stack temperature	⁰ C	98.0
5.	Exit Velocity	m/sec	12.9
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	59.2	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	55.0	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	1.78	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-03/06

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : B - TRAIN OF NPK (PRODUCT 20:20:0:13)

DATE & TIME OF START : 20-03-2024 @ 11.00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	33
4.	Stack temperature	⁰ C	78.0
5.	Exit Velocity	m/sec	11.2
6.	Duration of Sampling	Minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	59.6	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	64.0	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.47	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-03/07

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : C - TRAIN OF NPK (PRODUCT:10:26:26)

DATE & TIME OF START : 20-03-2024 @ 12:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	30
4.	Stack temperature	⁰ C	86.0
5.	Exit Velocity	m/sec	12.0
6.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	49.8	115	IS:11255-P-1
2.	Ammonia – NH ₃	mg/Nm ³	70.0	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm ³	0.53	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-03/08

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

DATE OF COLLECTION : 20-03-2024

DATE OF ANALYSIS COMPLETED : 01-04-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	METHOD
1	pH	-	7.52	APHA, 4500-H+B, 23rd Ed., 2017
2	Total Dissolved Solids -TDS	mg/l	628	APHA, 2540-C, 23rd Ed., 2017
3	Total Suspended Solids - TSS	mg/l	14.0	APHA, 2540-D, 23rd Ed., 2017
4	Chemical Oxygen Demand – COD	mg/l	36.0	IS 3025 P:44
5	Bio-Chemical Oxygen Demand – BOD (3 days incubation at 27°C)	mg/l	14.0	APHA, 5220-B, 22 th Ed., 2012
6	Oil& Grease	mg/l	<1.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7	Legionella Bacteria	per ml	Absent	APHA, 9260-J, 23rd Ed., 2017


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(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/CIL/24-03/09

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP INLET

DATE OF COLLECTION : 20-03-2024

DATE OF ANALYSIS COMPLETED : 01-04-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.03	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids -TSS	mg/l	109	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids – TDS	mg/l	716	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand - COD	mg/l	298	APHA, 5220-B, 22 th Ed., 2012
5.	Biochemical Oxygen Demand - BOD (3 days at 27°C)	mg/l	116	IS 3025 P 44
6.	Oil & Grease	mg/l	3.0	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	13.9	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.14	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	25.8	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	3.21	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.84	IS.3025, P-52
12.	Fluoride as F	mg/l	0.36	IS.3025, P-60


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Ref: SVELC/CIL/24-03/10

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : STP OUTLET

DATE OF COLLECTION : 20-03-2024

DATE OF ANALYSIS COMPLETED : 01-04-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.14	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids – TSS	mg/l	21.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids – TDS	mg/l	603	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand – COD	mg/l	71.0	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand - BOD (3 days at 27°C)	mg/l	28.0	30	IS 3025 P 44
6.	Oil & Grease	mg/l	<1.0	10	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	8.01	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.06	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjheldal Nitrogen (as NH3)	mg/l	12.4	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.82	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.65	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.53	2.0	IS.3025, P-60

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Ref: SVELC/CIL/24-03/01

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR EMERGENCY CONTROL ROOM

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-03-2024	72.3	32.9	17.2	16.4	63.9	<20
05-03-2024	73.6	33.2	16.0	15.2	64.8	<20
09-03-2024	71.3	31.0	15.8	14.7	61.5	<20
12-03-2024	75.2	34.6	17.6	16.0	66.3	<20
16-03-2024	72.8	32.1	16.5	15.4	63.7	<20
19-03-2024	76.4	34.8	18.2	16.8	67.2	<20
23-03-2024	74.5	33.2	17.6	15.9	65.0	<20
26-03-2024	70.2	32.5	15.7	14.6	60.8	<20
30-03-2024	68.9	30.6	14.5	13.9	30.5	<20
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 112-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/24-03/02

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR TXR POINT

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-03-2024	70.5	31.8	15.4	13.8	63.4	29.8
05-03-2024	72.4	32.9	14.7	13.2	60.2	31.2
09-03-2024	76.8	34.2	16.8	14.6	64.1	33.8
12-03-2024	74.2	33.4	15.9	14.3	61.8	31.6
16-03-2024	72.4	32.2	14.5	13.1	61.8	30.7
19-03-2024	75.8	34.5	16.2	15.0	64.5	34.2
23-03-2024	73.4	33.0	15.8	14.3	62.4	32.6
26-03-2024	77.2	35.9	18.1	17.2	67.1	33.1
30-03-2024	75.6	34.6	17.5	16.4	65.9	32.9
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/24-03/03

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : AMBIENT AIR QUALITY

SOURCE OF COLLECTION : NEAR MRSS

DURATION OF SAMPLING : 24 hours

ATMOSPHERE CONDITION : Clear Sky

TEST REPORT

Sampling Date	Particulate matter (PM ₁₀) µg/m ³	Particulate matter (PM _{2.5}) µg/m ³	Sulphur dioxide SO ₂ µg/m ³	Oxides of nitrogen NO _x µg/m ³	Carbon monoxide CO µg/m ³	Ammonia (NH ₃) µg/m ³
01-03-2024	72.6	31.5	15.1	14.6	62.8	24.9
05-03-2024	75.2	33.4	18.8	16.2	66.1	32.0
09-03-2024	73.7	32.9	15.9	14.1	60.6	25.4
12-03-2024	70.5	30.0	14.2	13.5	58.7	23.6
16-03-2024	68.1	29.3	13.7	12.8	56.9	20.3
19-03-2024	78.6	35.7	17.5	15.4	64.0	30.5
23-03-2024	81.3	36.9	18.8	17.2	69.4	34.8
26-03-2024	76.0	34.4	17.6	16.9	67.9	31.9
30-03-2024	74.9	33.3	16.1	15.4	64.2	28.1
Methods	IS:5182 (P-23)	IS:5182 (P-24)	IS:5182 (P-2)	IS:5182 (P-6)	IS:5182 (P-10)	IS:5182 (P-25)
CPCB Standards	100	60	80	80	2000	400

Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 114-DTA-2019	01-10-2023	30-09-2024


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Ref: SVELC/CIL/24-03/11

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - II

DATE & TIME OF START : 21-03-2024 @ 10.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	31
4.	Stack temperature	⁰ C	102
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	51.8	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-03/12

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - III

DATE & TIME OF START : 21-03-2024 @ 11.30 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	33
4.	Stack temperature	⁰ C	91.0
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	48.3	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm ³	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-03/13

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : SCREEN HOUSE

DATE & TIME OF START : 22-03-2024 @ 10:45 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	°C	31
4.	Stack temperature	°C	112
5.	Duration of Sampling	minutes	30

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	46.9	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm ³	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-03/14

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF COLLECTION : 20-03-2024 to 22-03-2024

TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	68.2	62.7	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	65.9	59.3	
3.	Near South Gate	70.5	64.1	
4.	Near South West Corner	66.1	55.9	
5.	Near North West Corner	63.8	58.2	
6.	Near East Side of Bagging Plant	68.7	61.6	
7.	Back Side of Technical Building	67.5	60.4	
CPCB STANDARDS		75.0	70.0	

S.No.	Instrument Used	Make	Model	Serial No	Calibrated on	Calibration Due Date
1.	Digital Sound Level Meter	Lutron	SL-4033	Q652570	11/05/2023	10/05/2024
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	16/06/2023	15/06/2024



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Ref: SVELC/CIL/24-03/15

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : 12 TPH BOILER

DATE & TIME OF START : 22-03-2024 @ 14:00 hr

TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	⁰ C	30
4.	Stack temperature	⁰ C	184
5.	Velocity	m/s	8.72
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm ³	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO ₂	mg/Nm ³	BDL	-	
3.	Oxides of Nitrogen – NO _x	mg/Nm ³	36.8	-	
4.	Carbon Dioxide – CO ₂	%	2.92	-	
5.	Carbon Monoxide – CO	ppm	1.57	-	
6.	Oxygen – O ₂	%	3.01	-	
7.	Total Fluoride	mg/Nm ³	<0.5	10.0	

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	08/11/2023	07/11/2024


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Ref: SVELC/CIL/24-03/16

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR AMMONIA STORAGE TANK

DATE OF COLLECTION : 20-03-2024

DATE OF ANALYSIS COMPLETED : 01-04-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500:2012 Specification	
				Acceptable	Permissible
1.	pH	-	7.24	6.5 – 8.5	No relaxation
2.	Colour	Hazen	0.30	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1527	500	2000
5.	Total Hardness	mg/l	1063	200	600
6.	Calcium as Ca	mg/l	147	75.0	200
7.	Magnesium as Mg	mg/l	169	30.0	100
8.	Total Alkalinity	mg/l	516	200	600
9.	Sulphates as SO ₄	mg/l	332	200	400
10.	Iron as Fe	mg/l	0.20	0.3	No relaxation
11.	Phosphates as P	mg/l	0.48	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	0.59	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	11.3	45	No relaxation
15.	Fluoride as F	mg/l	1.06	1.0	1.5


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SV ENVIRO LABS & CONSULTANTS

(ENVIRONMENTAL ENGINEERS & CONSULTANTS IN POLLUTION CONTROL)

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Ref: SVELC/CIL/24-03/17

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SCRAP YARD

DATE OF COLLECTION : 20-03-2024

DATE OF ANALYSIS COMPLETED : 01-04-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	7.14	6.5 – 8.5	No relaxation
2.	Colour	Hazen	0.92	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	1742	500	2000
5.	Total Hardness	mg/l	1107	200	600
6.	Calcium as Ca	mg/l	158	75.0	200
7.	Magnesium as Mg	mg/l	173	30.0	100
8.	Total Alkalinity	mg/l	442	200	600
9.	Sulphates as SO ₄	mg/l	287	200	400
10.	Iron as Fe	mg/l	0.25	0.3	No relaxation
11.	Phosphates as P	mg/l	0.74	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.36	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	<0.01	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	10.8	45	No relaxation
15.	Fluoride as F	mg/l	0.92	1.0	1.5


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Ref: SVELC/CIL/24-03/18

Date: 03-04-2024

NAME AND ADDRESS : M/s. COROMANDEL INTERNATIONAL LTD,
BEACH ROAD, KAKINADA,
ANDHRA PRADESH, INDIA

SAMPLE PARTICULARS : WATER

SAMPLE PARTICULARS : GROUND WATER

SOURCE OF COLLECTION : NEAR SULPHURIC STORAGE TANK

DATE OF COLLECTION : 20-03-2024

DATE OF ANALYSIS COMPLETED : 01-04-2024

TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	IS 10500 Specification	
				Acceptable	Permissible
1.	pH	-	6.84	6.5 – 8.5	No relaxation
2.	Colour	Hazen	2.0	5.0	15.0
3.	Odour	-	Agreeable	Agreeable	Agreeable
4.	Total Dissolved Solids	mg/l	19253	500	2000
5.	Total Hardness	mg/l	5889	200	600
6.	Calcium as Ca	mg/l	591	75.0	200
7.	Magnesium as Mg	mg/l	1072	30.0	100
8.	Total Alkalinity	mg/l	1338	200	600
9.	Sulphates as SO ₄	mg/l	3674	200	400
10.	Iron as Fe	mg/l	0.22	0.3	No relaxation
11.	Phosphates as P	mg/l	1.02	Not Specified	Not Specified
12.	Total Kjeldahl Nitrogen	mg/l	1.26	Not Specified	Not Specified
13.	Ammonical Nitrogen	mg/l	0.98	Not Specified	Not Specified
14.	Nitrate Nitrogen as NO ₃	mg/l	9.01	45	No relaxation
15.	Fluoride as F	mg/l	2.8	1.0	1.5


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