

Ref: CK:EHS:3.5:23

Dt:29.09.2023

The Member Secretary,  
A.P Pollution Control Board,  
Paryavaran Bhavan, APIIC Colony Road,  
Gurunanak Colony, Autonagar,  
Vijayawada-520007.

Dear Sir,

**Sub:** Environmental Statement (i.e. Form V) for the Financial Year 2022-23 - 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 31<sup>st</sup> March 2023 in the prescribed Form – V along with necessary enclosures for your kind information and records.

Thanking you,

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

  
**Ch. SRINIVASA RAO**  
Senior Associate Vice President & Head Manufacturing



RECEIVED  
CONTENT NOT KNOWN  
29/09/2023  
A.P POLLUTION CONTROL BOARD  
KAKINADA

Encl: a/a.

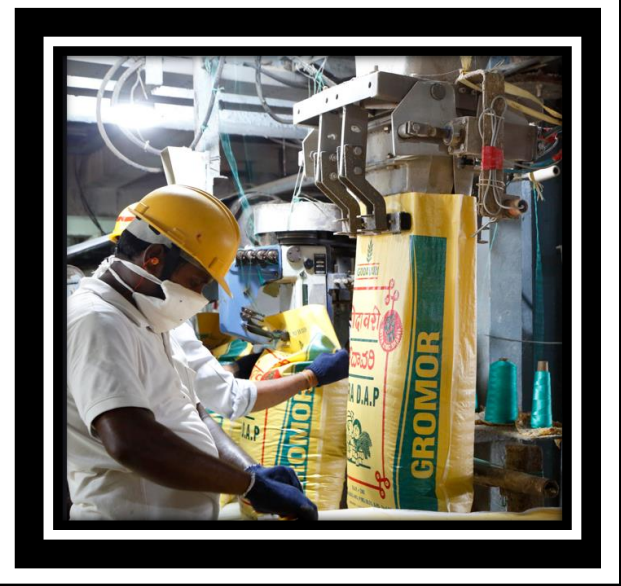
Cc to: The Environmental Engineer, A.P. Pollution Control Board, Regional Office, Plot no.2-2,  
Ramanayyapeta, Industrial Area, Kakinada-533 005.

# ENVIRONMENTAL STATEMENT



SEPTEMBER 2023

**COROMANDEL  
INTERNATIONAL LIMITED  
KAKINADA**



# ENVIRONMENTAL STATEMENT

**FORM-V**  
**(See Rule 14)**  
**Environmental Statement for the Financial Year ending 31<sup>st</sup> March 2023.**

**PART-A**

(i)	Name and address of the Owner / Occupier of the industry, operations or process.  Telephone Nos.  Fax No.	Sri S Sankarasubramanian Executive Director Coromandel International Limited, Coromandel House, 3 <sup>rd</sup> 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	30.09.2022



- **Water and Raw Material Consumption**

**Water Consumption M<sup>3</sup>/d (Average): 1452 m<sup>3</sup>/day**

- |           |   |                         |
|-----------|---|-------------------------|
| Process   | : | 738 m <sup>3</sup> /day |
| Cooling   | : | 67 m <sup>3</sup> /day  |
| Domestic@ | : | 647 m <sup>3</sup> /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 2021-22	Current Financial Year 2022-23
	0.321 m <sup>3</sup> /MT	0.264 m <sup>3</sup> /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 (2021-22)	During the current financial year (2022-23)
Phosphoric Acid 100% P <sub>2</sub> O <sub>5</sub>	DAP	459.87	450.60
	20:20:0	200.83	200.30
	14:35:14	351.31	343.90
	10:26:26	246.69	261.90
	DAP'Z	-	-
	28:28:0	281.84	283.20
	17:17:17	-	-
	10:26:26 Z	260.38	-
	12:32:16	322.26	-
	15:15:15	148.33	149.20
	14:35:14 Z	348.85	201.9
	Groshakti Plus	-	351.0
Anhydrous Ammonia	DAP	222.10	217.4
	20:20:0	223.99	176.4
	14:35:14	170.04	166.3
	10:26:26	117.93	118.2
	DAP'Z	-	-
	28:28:0	136.15	136.9
	14:35:14Z	157.35	-
	10:26:26 Z	123.37	-
	12:32:16	148.32	-
	15:15:15	168.59	147.6
	16:20:0	-	172.60
	Groshakti Plus	-	173.00
Sulphuric Acid	DAP	33.65	32.30
	20:20:0	411.53	267.10

	14:35:14	39.38	37.90
	10:26:26	20.41	20.10
	DAP'Z	-	-
	28:28:0	34.31	34.10
	14:35:14 Z	38.46	-
	10:26:26 Z	19.25	-
	12:32:16	22.84	-
	15:15:15	314.88	244.20
	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 (2021-22)	During the current financial year (2022-23)
MAP	DAP	0	258.0
	20:20:0	0	1.40
	10:26:26	0	0.70
	14:35:14 Z	0	158.0
Murate of Potash	17:17:17	-	-
	14:35:14 Z	239.3	239.3
	10:26:26	428.96	444.7
	12:32:16	273.50	-
	15:15:15	250.56	255.7
	10:26:26Z	444.40	-
	Groshakti Plus	-	239.3
Ammonium Sulphate	DAP	-	2.30
	20:20:0	-	212.7
	10:26:26	-	0.90
	14:35:14	-	3.60
	26:20:0	-	104.1
	28:28:0	-	0.5
	15:15:15	-	98.4

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

**2022-23 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	7.51	6.5 to 8.0	Within the range
TSS		20	100 mg/L	-79.75
Oils& Grease		0	10 mg/L	-100
BOD		13	100 mg/L	-86.58
COD		29	250 mg/L	-88.54

15 m<sup>3</sup>/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:**

### 2022-23 DAP PLANT STACK:

Pollutants	Quantity of pollutants discharged (MT/day) *			Concentration of pollutants in discharge (mg/Nm <sup>3</sup> )			Percentage variation from standards with reasons.			
	Train			Train			Standards mg/Nm <sup>3</sup>	% Variation (+/-)		
	A	B	C	A	B	C		A	B	C
NH <sub>3</sub>	0.45	0.43	0.55	93.4	89.68	77.00	<b>300</b>	-68.87	-70.11	-74.33
Fluoride	0.007	0.013	0.005	1.54	2.72	0.76	<b>&lt;10</b>	-84.60	-72.80	-92.40
PM	0.25	0.24	0.31	51.88	50.27	43.13	<b>115</b>	-54.89	-56.29	-62.50

Based on the process plant running hours for the entire year of each train and considering stack gas volume of 200934 Nm<sup>3</sup>/Hr for A&B Trains and 300118 Nm<sup>3</sup>/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 <sup>3</sup> )				Percentage variation from standards with reasons	
	Bag. Plant -1 Stack-I	Bag. Plant 2 Stack-II	Bag.Plant-3 Stack-III	Screen House	Standards (mg/Nm <sup>3</sup> )	% Variation (+/-)
SPM	53.95	54.10	54.10	53.73	<b>115</b>	Stack-I: (--53.09%) Stack-II: (--52.96%) Stack-III: (--52.96%) Sc. House (--53.28%)

### III. Pollution load of our DAP Plant per ton of finished product for the year 2022-23.

Sl. No.	Description	Load in Kg. Per MT of finished Product.
1.	Ammonia	0.219
2.	Fluorine	0.004
3.	PM	0.122

### Hazardous Wastes

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

Hazardous Wastes	Total Quantity in liters during the	
	Previous financial year 2021-22	Current financial year 2022-23
a. From process **	2730 Liters	3000 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 Royal Lubricants, R.Sy.No.74/1, Japathinagaram (V), Kirlampudi (M), East Godavari Dist.

### Solid Wastes

Source	Total Quantity during the	
	Previous financial year 2021-22	Current financial year 2022-23
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) 5.90 (WTP Clarifier Sludge)	10.13 (WTP Clarifier Sludge)
ii) Sold	ii) 853.245 MT (scrap) 1.08 MT (E waste)	ii) 294.88 MT (scrap) 1.49 MT (E waste)
iii) Disposed	iii) 4.73 MT (Battery waste) 0.01 MT (Bio-medical waste)	iii) 0.10 MT (Battery waste) 0.02 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 3000 litres has generated for the financial year 2022 -2023. The generated used oil is disposed to A.P Pollution Control Board authorised re-processor M/s Royal Lubricants, R.Sy.No.74/1, Japathinagaram (V), Kirlampudi (M), East Godavari Dist.

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. 10.13 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 has decreased from 0.321 m<sup>3</sup> to 0.264 m<sup>3</sup> per metric tonne of product compared to the previous year due to the increased usage quantity of weak phosphoric acid (available from our group company, from Visakhapatnam and Ennore Unit) instead of concentrated one in the process.

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/Nm<sup>3</sup>. PR (Pipe Reactor) trips at 250 mg/Nm<sup>3</sup> and Plant trips at 300 mg/Nm<sup>3</sup>. 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.

<b>YEAR</b>	<b>AWARDS &amp; ACCOLADES</b>
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:**

Sl. No	Department	Category	Area or Plant	Description of Activity	Current level	Target Level
1	Electrical	Energy Conservation	A-Train	APFC panel replacement	0.991	0.996
2	Electrical	Energy Conservation	RMS Godown	LED Lights replacement	-	300 units per day

**ENVIRONMENT PROJECT EXECUTED in Financial Year 2022\_23:**

S No	Brief details of Environmental measures implemented	Spent in INR Lakhs
1	Installation of Solar Lights- For Energy Conservation.	20
2	New De-dusting system provided at bagging plant -3.	109.8
3	REPLACEMENT OF AAQMS ANALYZERS of PM10 & PM2.5 at Model House. 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.	05
5	A-TRAIN SCRUBBER PUMPS REPLACEMENT Towards improvement of Scrubber operational efficiency	30
6	RCC ROAD FROM WRKSHIP TO STORES & ROADS AT WEIGHBRIDGE & BAGGING PLANT. To minimize the fugitive emissions generated during the transportation of the raw materials into the plant.	70
7	Ac replacements of CAAQMs stations (3 Nos).	5.0
8	Road Sweeping machine.	26.0
9	Water sprinkling on roads with road tanker.	3.0
10	Greenbelt Maintenance Cost.	43.62
11	OCEMS- AMC Cost.	0.75
12	CAAQM-AMC Cost.	3.21
13	ENV Monitoring Cost.	4.34
14	STP Operational Cost.	6.41
15	Solar Water Heater Operational Cost	2.94
<b>Total</b>		<b>356.07</b>

### Health Checkups during 2022 -23

Health Checkups done during 2022- 2023				
S. No	Date	Type of Health checkup	Beneficiary type	Number of beneficiaries
1.	April '22	PEP Talk on Heat stress	Employees, Contract workmen	135
2.	May '22	Blood Donation camp	Employees, Contract Workmen	100
3.	June' 22	Eye Screening camp	Employees, Contract Workmen (Operators)	70
4.	July'22	Awareness session on covid & post covid precautions	Employees, Contract workmen	80
5.	Aug '22	Diabetic retinopathy screening camp	Employees, Contract workmen	70
6.	Sep '22	Health Awareness session on preventive cardiology	Employees, contract workmen	120
7.	Oct '22	Statutory certified first aid training program	Employees, Contract workmen	82
8.	Nov '22	Awareness session on Diabetes education	Employees, Contract Workmen	130
9.	Nov ' 22	Diabetes screening camp	Employees, Contract Workmen	380
10.	Dec ,22	PEP Talk on Dengue fever	Employees, Contract Workmen	50
11.	Dec' 22	Annual health check	Employees	400
12.	Jan'23	PEP Awareness talk on cervical cancer	Employees	15
13.	Feb'23	Health awareness session on cancer	Employees	30
14.	March'23	Health awareness session on kidney	Employees	30



**COROMANDEL INTERNATIONAL LTD - KAKINADA**  
**AMBIENT AIR QUALITY REPORT CONDUCTED INSIDE AND OUT SIDE THE**  
**PREMISES OF COROMANDEL FOR THE Financial Year 1st April 2022 to 31st**  
**March 2023**

DATE	NEAR MRSS					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2022-23	62.30	27.50	12.30	11.20	50.60	19.60
Max FY 2022-23	81.50	37.60	19.10	18.20	69.40	34.80
Avg FY 2022-23	72.58	32.26	15.91	14.72	61.02	26.20

DATE	NEAR TXR					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2022-23	65.00	29.00	13.50	11.30	54.20	23.60
Max FY 2022-23	79.80	38.50	19.50	17.40	69.40	37.50
Avg FY 2022-23	72.68	33.41	15.87	14.37	61.86	30.29

DATE	NEAR ECC POINT					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2022-23	61.20	26.80	13.60	12.50	50.00	0.00
Max FY 2022-23	78.80	38.20	18.60	17.40	68.30	0.00
Avg FY 2022-23	70.57	32.36	16.05	14.90	60.41	0.00

DATE	NEAR GUEST HOUSE					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2022-23	61.90	24.80	12.90	14.70	44.20	0.00
Max FY 2022-23	68.7	30.6	15.2	16.5	52.4	0.00
Avg FY 2022-23	65.39	27.55	13.89	15.67	47.37	0.00

DATE	NEAR BIRDS PARADISE					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2022-23	62.90	29.10	13.70	12.90	44.10	0.00
Max FY 2022-23	64.8	30.6	14.2	13.4	46.2	0.00
Avg FY 2022-23	63.85	29.85	13.95	13.15	45.15	0.00

DATE	NEAR KORINGA					
	PM10	PM2.5	SO2	Nox	CO	NH3
Min FY 2022-23	44.30	19.10	12.50	11.10	12.10	0.00
Max FY 2022-23	68.1	26.9	14.3	13.4	44.8	0.00
Avg FY 2022-23	52.77	22.40	13.33	12.07	23.57	0.00

**COROMANDEL INTERNATIONAL LTD - KAKINADA**  
**AMBIENT NOISE LEVEL CONDUCTED IN AND AROUND THE**  
**PREMISES OF COROMANDEL FOR THE Financial Year 1<sup>st</sup> April 2022 to 31<sup>st</sup>**  
**March 2023**

S.No	LOCATION	Ambient NOISE MAX Value FY 2022_23		Ambient NOISE "MIN Value" FY 2022_23		Ambient NOISE Average FY 2022_23	
		Unit of Measurement in dB(A)					
		Day Max	Night Max	Day Mini	Night Mini	Day Average	Night Average
1	North gate.	69.7	57.3	63	49	67.2	54.0
2	East gate.	70.6	57.3	66	51	69.0	55.6
3	South gate.	69.2	58.9	58	50	63.8	54.3
4	South west corner.	70.6	56.2	54	49	65.8	54.0
5	North west corner.	67.6	57.3	57	50	63.8	54.3
6	East side of bagging plant.	72.9	68.5	70.1	61	71.6	65.9
7	Back side of technical building.	73	64.4	66.2	59	69.9	61.9

**COROMANDEL INTERNATIONAL LTD - KAKINADA**  
**SEWAGE TREATMENT PLANT – TREATED WATER VALUES For**  
**The Financial Year 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023**

S No	Parameter	Standard	Unit	FY 2022- 23 Max	FY 2022- 23 Min	FY 2022- 23 Avg
1	pH	5.5 to 9.0	-	7.69	7.46	7.58
2	TSS	200	mg/l	19	11	14.08
3	TDS	2100	mg/l	562	416	485.58
4	COD	250	mg/l	90.6	62.8	76.08
5	BOD	30	mg/l	26	19	22.33
6	Oil & Grease	10	mg/l	0	0	0.00
7	Ammonical Nitrogen	50	mg/l	9.32	7.39	8.23
8	Free Ammonia as NH <sub>3</sub>	5	mg/l	0.11	0.04	0.08
9	Total Kjeldahl Nitrogen	100	mg/l	18.4	12.2	15.75
10	Nitrate Nitrogen	10	mg/l	0.84	0.62	0.77
11	Phosphate as P	5	mg/l	0.8	0.57	0.69
12	Flouride as F	2	mg/l	2	0.38	0.57

**COROMANDEL INTERNATIONAL LTD - KAKINADA**  
**GROUND WATER & COOLING TOWER WATER ANALYSIS VALUES For**  
**The Financial Year 1<sup>st</sup> April 2022 to 31<sup>st</sup> March 2023**

	Near Ammonia Storage Tank														
Parameters	pH (6.5-8.5)	Colour (Hazen)	Odour	Total Dissolved Solids (mg/l)	Total Hardness (mg/l)	Calcium as Ca (mg/l)	Magnesium as Mg (mg/l)	Total Alkanity (mg/l)	Sulphates as SO <sub>4</sub> (mg/l)	Iron as Fe (mg/l)	Phosphates as P (mg/l)	Total Kjeldhal Nitrogen (mg/l)	Ammonical Nitrogen (mg/l)	Nitrate Nitrogen as NO <sub>3</sub> (mg/l )	Fluoride as F (mg/l)
Standard IS10500 Specification	6.5-8.5	< 1.0	Agreeable	500	200	75	30	200	200	0.3	-	-	-	45	1
Month															
Max	7.53	0.00	0.00	574.00	262.00	78.50	16.10	170.00	69.40	0.19	0.23	0.42	1.96	4.52	0.45
Min	7.32	0.00	0.00	416.00	185.00	61.30	7.76	105.00	36.90	0.06	0.05	0.18	1.43	3.32	0.30
Average	7.42	0.00	0.00	472.20	211.20	67.57	10.34	128.90	49.80	0.11	0.13	0.28	1.63	3.75	0.36

Near Phosphoric acid storage tank														
pH (6.5-8.5)	Colour (Hazen)	Odour	Total Dissolved Solids (mg/l)	Total Hardness (mg/l)	Calcium as Ca (mg/l)	Magnesium as Mg (mg/l)	Total Alkanity (mg/l)	Sulphates as SO <sub>4</sub> (mg/l)	Iron as Fe (mg/l)	Phosphates as P (mg/l)	Total Kjeldhal Nitrogen (mg/l)	Ammonical Nitrogen (mg/l)	Nitrate Nitrogen as NO <sub>3</sub> (mg/l )	Fluoride as F (mg/l)
6.5-8.5	< 1.0	Agreeable	500	200	75	30	200	200	0.3	-	-	-	45	1
7.90	0.00	0.00	698.00	305.00	86.90	21.30	255.00	80.60	0.20	0.25	0.40	1.91	6.78	0.41
7.59	0.00	0.00	516.00	215.00	67.20	11.50	175.00	51.90	0.06	0.06	0.21	1.47	5.65	0.24
7.70	0.00	0.00	581.60	254.10	76.05	15.70	205.90	64.27	0.12	0.15	0.30	1.66	6.10	0.31

Near Sulphuric acid storage tank														
pH (6.5-8.5)	Colour (Hazen)	Odour	Total Dissolved Solids (mg/l)	Total Hardness (mg/l)	Calcium as Ca (mg/l)	Magnesium as Mg (mg/l)	Total Alkanity (mg/l)	Sulphates as SO <sub>4</sub> (mg/l)	Iron as Fe (mg/l)	Phosphates as P (mg/l)	Total Kjeldhal Nitrogen (mg/l)	Ammonical Nitrogen (mg/l)	Nitrate Nitrogen as NO <sub>3</sub> (mg/l )	Fluoride as F (mg/l)
6.5-8.5	< 1.0	Agreeable	500	200	75	30	200	200	0.3	-	-	-	45	1
7.62	0.00	0.00	598.00	291.00	82.60	20.40	184.00	75.30	0.21	0.26	0.39	1.81	4.30	0.43
7.43	0.00	0.00	418.00	190.00	62.10	8.56	110.00	52.30	0.06	0.06	0.21	1.37	3.16	0.33
7.51	0.00	0.00	489.00	231.60	70.68	13.39	140.30	61.68	0.13	0.14	0.28	1.53	3.68	0.38



Near Scrap Yard (Backside to Stores)														
pH (6.5-8.5)	Colour (Hazen)	Odour	Total Dissolved Solids (mg/l)	Total Hardness (mg/l)	Calcium as Ca (mg/l)	Magnesium as Mg (mg/l)	Total Alkanity (mg/l)	Sulphates as SO <sub>4</sub> (mg/l)	Iron as Fe (mg/l)	Phosphates as P (mg/l)	Total Kjeldhal Nitrogen (mg/l)	Ammonical Nitrogen (mg/l)	Nitrate Nitrogen as NO <sub>3</sub> (mg/l )	Fluoride as F (mg/l)
6.5-8.5	< 1.0	Agreeable	500	200	75	30	200	200	0.3	-	-	-	45	1
7.59	0.00	0.00	772.00	328.00	92.60	23.50	279.00	90.20	0.16	0.28	0.46	2.01	7.89	0.48
7.34	0.00	0.00	550.00	217.00	67.60	11.90	205.00	59.60	0.07	0.11	0.24	1.31	6.37	0.39
7.52	0.00	0.00	641.30	259.90	78.07	15.80	232.00	69.27	0.11	0.18	0.33	1.59	7.12	0.43

**COOLING TOWER WATER ANALYSIS REPORT:**

S.No	Parameter	Unit	Max	Min	Average
1	pH	-	8.02	7.26	7.51
2	TDS	mg/l	802	684.00	733
3	TSS	mg/l	27	14.00	20
4	BOD	mg/l	19	9.00	13
5	COD	mg/l	40	21.00	29
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



### ENVIRONMENT DAY CELEBRATION 2022







Environment pledge



Environment Pledge



Chief Guest (AEE) message to gathering



Prize distribution for competition winners

## COASTAL CLEANUP



**International Coastal clean-up day 17.09.22**



## 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.



## KALINGA ENVIRONMENT EXCELLENCE AWARD



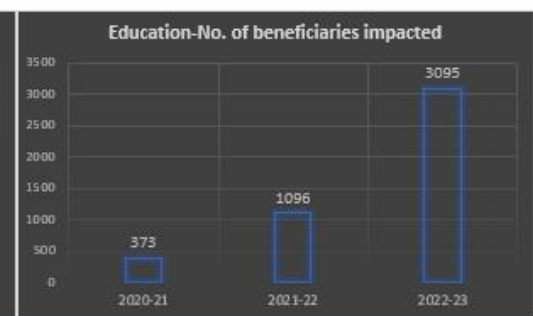
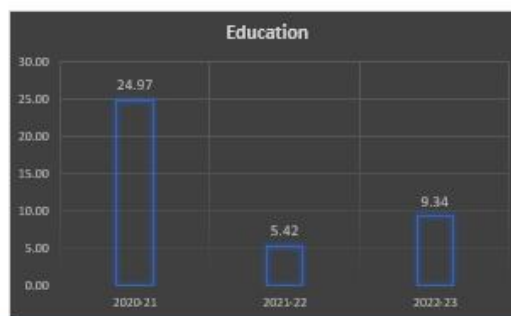
## CSR Activities

### Education



#### Key Highlights of the Year

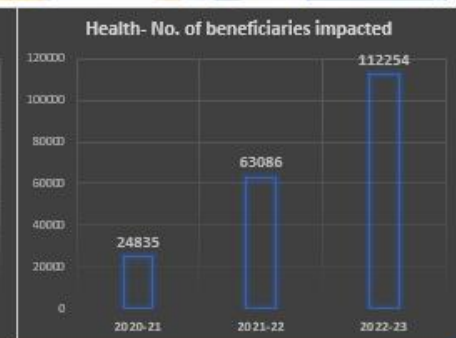
- Learning enrichment Programme initiated in ZPH School, Vakalapudi
- Coromandel Girl child scholarship provided to 130 Girls
- Science fair organized & 120 working models presented
- Coromandel, Kakinada has donated GI beds (60 Nos) to Govt. boys hostel of AKN University.
- Anganwadi complex constructed at Harbouroret, Vakalapudi



### Health



- Swasthya (Comprehensive health project) was implemented for Adolescent girls, Pregnant women and lactating mothers.
- School health camps like Dental screening and hygiene kits distribution, Anemia Screening for adolescent girls reached 1600 students
- Eye camp reached 2050 patients and 252 surgeries performed and 1250 spectacles distributed
- Multispeciality camp reached 900 patients
- GGH NICU was supported with huge quantity of Medical equipment that was enabled them to control cross infections thus reduced mortality rate

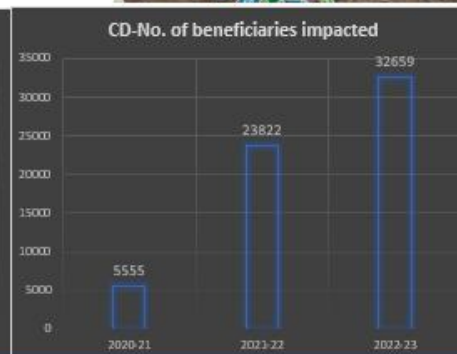
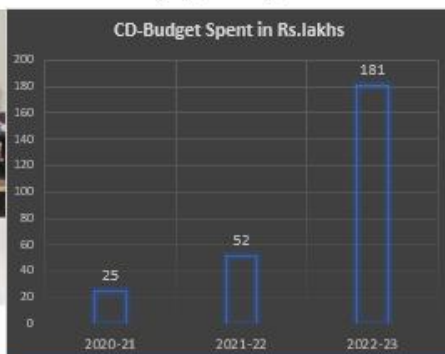




## Community Development



- As part of improving the livelihoods of local women, Coromandel, Kakinada has initiated Beautician course at Ramanahpet village. 33 women got benefitted.
- Organised 100 Hours course to teach necessary computer and soft skills for unemployed local youth. 50 local youth were trained.
- To impart alternate livelihoods to the surrounding women, Sewing machine training was organized whereas 55 women got benefitted.
- Community infrastructure such as Community hall, RO plant were established at Vakalapudi village
- Improved road safety, greenery and shifted garbage dump at Valasapakala road
- Supported district administration in electrification and arranging streetlights on beach road.



## Proposed budget for 2023-24



Focus Area	Project details	Estimated budget(In Lakhs)
Education	1)Learning Enrichment Programme in Govt. Schools	6
	2)Maths for all and Chemistry Its Fundamentals	
	Coromandel Girl Child Scholarships	8
<b>Education Total</b>		<b>14</b>
Health	1)GGH PICU/NICU maintenance	50
	2)Medical equipment	
	3) Disability intervention for children with special needs	15
	4) Women and children health project by CFI	15
<b>Health total</b>		<b>80</b>



## Proposed budget for 2023-24



Focus Area	Project details	Estimated budget(In Lakhs)
Community Development	Women and rural youth livelihoods	22
	Bund formation at seacoast to protect households and fish yards of <u>Harbourpet</u>	25
	Drinking water tractor and other RO plants maintenance	16
	Completion of 2nd phase community hall works in Valasapakala Community hall, BC colony Vakalapudi	50
	CSR works requested by District collector	20
Infrastructure development	Repair works to all 12 Anganwadi buildings in <u>Valsapakala</u> and Vakalapudi	16
	Construction of community hall and drains in <u>Sundarayya</u> colony	63
	Children park development and open Gym at <u>R.K.Nagar</u> , Vakalapudi	8
Project C3		8
Community Development Total		210
Environment & Biodiversity		20
Total		334



## Coromandel Center for Developmental Disabilities



**Objective of the program:** To provide special care services to the children with intellectual & development disabilities and other disabilities of age group 0 to 8 years

**2. Action Plan:** Early identification and Intervention, Special education, Vocational training, Psychological Intervention, Music and Yoga therapy, Co- curricular activities, Parents counseling and Guidance

**3. Outcome of the program:** Children with special needs will be addressed i.e gray area by govt. or any other organisation

**4. Time frame of the program:** The programme will be initiated in June'2023 and will be continued for at least 3 years

**5. Estimated Budget:** 13 Lakhs

**6. Need of the program:** Similar intervention was implemented by RIL successfully has greater reach and impact

**7. No of direct and indirect beneficiaries:** 50 Direct beneficiaries and 250 indirect beneficiaries

**8. Implementing Agency:** NGO called Uma Manovikasa Kendram



## Project C3

### The C3 of life—Choice, Chance and Change



**Objective of the program:** Bridging the local youth with global opportunities is always best thing to address the local unemployment. Youth will be access to all sorts of information pertaining to different careers and opportunities.

**2. Action Plan:** Establishing a Center, Adequate books on various competitive examinations, Educational and employment opportunities, Coaching sessions for youth in competitive exams. Other means of preparing them for jobs—e.g., conducting mock interviews, practice tests, etc., are also undertaken. To support local youth in learning Computer and soft skills to cope with any kind of job interviews.

**3. Outcome of the program:** Local youth would be introduced globally

**4. Time frame of the program:** The programme will be initiated in Aug'2023 and will be continued for at least 3 years

**5. Estimated Budget:** 8 lakhs

**6. Need of the program:** Pressure from local youth for in house jobs would be reduced

**7. No of direct and indirect beneficiaries:** 200 Direct and 600 indirect beneficiaries

**8. Implementing Agency:** Direct



## Environment & Biodiversity Project

### Jeeva Mithra



**Objective of the program:** Conservation of Marine Animals and Migratory birds under Wildlife protection act and providing alternative livelihoods partnering with AP Forest Dept. and a reputed NGO having suitable experience.

**2. Action Plan:** Conservation of whale sharks, Mammals, Reptiles, Alive ridley turtles, tortoises and Migratory birds by Creating awareness among local fishermen on wild animals to be protected, Identifying the nesting areas of birds, breeding areas of rear fish, turtles etc., Formation of community clubs for conservation and protection of rear species.

**3. Outcome of the program:** substantiate coromandel efforts towards biodiversity

**4. Time frame of the program:** initiated in Aug'2023 and will be continued for at least 3 years

**5. Estimated Budget:** 10 lakhs

**6. Need of the program:** Life under water has become threat to marine animals and migratory birds due to global warming and lack of awareness among fishermen near by villages of Coromandel

**7. No of direct and indirect beneficiaries:** 600 direct beneficiaries and 3000 indirect beneficiaries

**8. Implementing Agency:** EGREE Foundation or Dharithri Rakshita Samithi



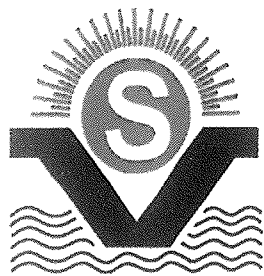
## Proposed budget for 2023-24



Focus Area	Project details	Estimated budget(In Lakhs)
Education	1)Learning Enrichment Programme in Govt. Schools	6
	2)Maths for all and Chemistry Its Fundamentals	
	Coromandel Girl Child Scholarships	8
	<b>Education Total</b>	<b>14</b>
Health	1)GGH PICU/NICU maintenance	50
	2)Medical equipment	
	3) Disability intervention for children with special needs	15
	4) Women and children health project by CFI	15
	<b>Health total</b>	<b>80</b>

# ANALYSIS REPORTS





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[info@svenviolabs.com](mailto:info@svenviolabs.com), [svenviro\\_labs@yahoo.co.in](mailto:svenviro_labs@yahoo.co.in)

**Branch Office :** 2-53, Mahipala Street, Yanam - 533464.

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Ref: SVELC/CIL/22-10/05

05-11-2022

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 20:20:0:13)

DATE & TIME OF START : 12-10-2022 @ 10.00 hr

## TEST REPORT

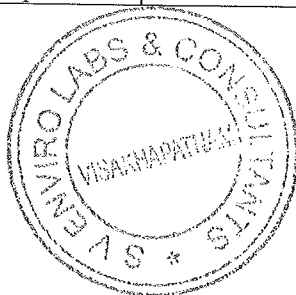
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>0</sup> C	32
4.	Stack temperature	<sup>0</sup> C	89
5.	Exit Velocity	m/sec	13.0
6.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	48.8	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	178	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	1.00	<10	IS:11255-P-5

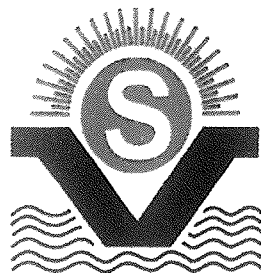
Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	11/11/2021	10/11/2022

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[info@svenvirolabs.com](mailto:info@svenvirolabs.com), [svenviro\\_labs@yahoo.co.in](mailto:svenviro_labs@yahoo.co.in)

**Branch Office :** 2-53, Mahipala Street, Yanam - 533464.

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Ref: SVELC/CIL/22-10/06

05-11-2022

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 : 12-10-2022 @ 11.45hr

## TEST REPORT

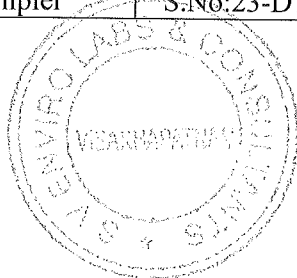
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	33
4.	Stack temperature	$^{\circ}\text{C}$	88
5.	Exit Velocity	m/sec	13.2
6.	Duration of Sampling	Minutes	30

## EMISSION RATE

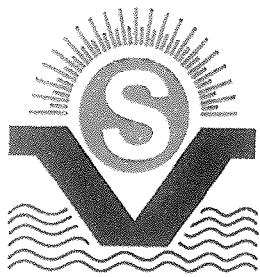
S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	59.5	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	78.9	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	1.55	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	11/11/2021	10/11/2022

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Ref: SVELC/CIL/22-10/07

05-11-2022

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 : 12-10-2022 @ 12:45 hr

## TEST REPORT

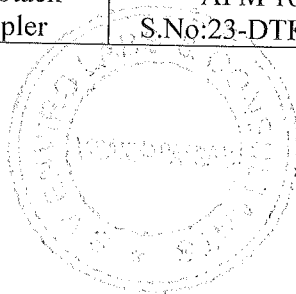
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	33
4.	Stack temperature	$^{\circ}\text{C}$	95
5.	Exit Velocity	m/sec	15.2
6.	Duration of Sampling	minutes	30

## EMISSION RATE

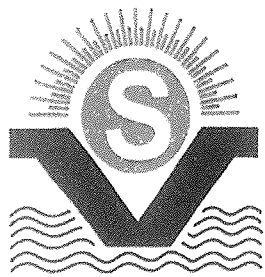
S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	$\text{mg}/\text{Nm}^3$	59.0	115	IS:11255-P-1
2.	Ammonia – $\text{NH}_3$	$\text{mg}/\text{Nm}^3$	19.5	300	IS:11255-P-6
3.	Total Fluoride	$\text{mg}/\text{Nm}^3$	2.99	<10	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	11/11/2021	10/11/2022

  
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Ref: SVELC/CIL/22-10/09

05-11-2022

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 : 12-10-2022

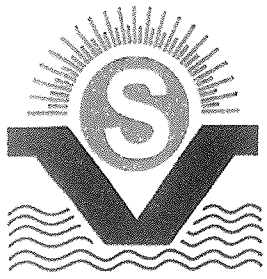
DATE OF ANALYSIS COMPLETED : 20-10-2022

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.34	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	650	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	310	APHA, 5220-B, 22 <sup>th</sup> Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	132	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	17.0	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.17	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	24.1	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.82	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.40	IS.3025, P-52
12.	Fluoride as F	mg/l	0.45	IS.3025, P-60
13.	Arsenic as As	mg/l	<0.01	APHA, 3120-B, 23rd Edition
14.	Vanadium as V	mg/l	<0.01	APHA, 3120-B, 23rd Edition

  
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Ref: SVELC/CIL/22-10/10

05-11-2022

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

SAMPLE PARTICULARS : WASTE WATER


SOURCE OF COLLECTION : STP OUTLET

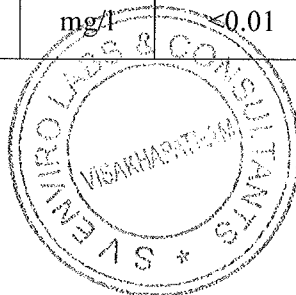
DATE OF COLLECTION : 12-10-2022

DATE OF ANALYSIS COMPLETED : 20-10-2022

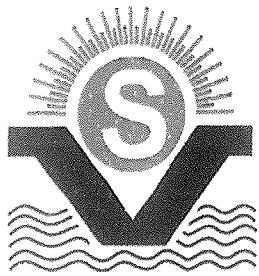
## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.60	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	510	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	80.2	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (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	9.02	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	18.2	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	0.76	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.48	2.0	IS.3025, P-60
13.	Arsenic as As	mg/l	<0.01	-	APHA, 3120-B, 23rd Edition
14.	Vanadium as V	mg/l	<0.01	-	APHA, 3120-B, 23rd Edition

  
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Ref: SVELC/CIL/22-10/08

05-11-2022

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

SAMPLE PARTICULARS : WASTE WATER

SOURCE OF COLLECTION : COOLING TOWER WATER

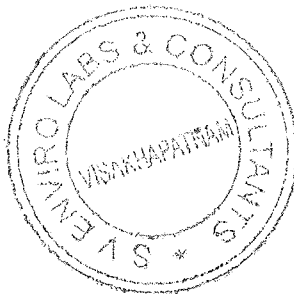
DATE OF COLLECTION : 12-10-2022

DATE OF ANALYSIS COMPLETED : 22-10-2022

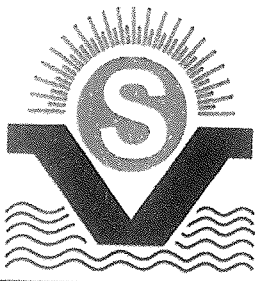
## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.42	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	802	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	22.0	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	32.0	APHA, 5220-B, 22 <sup>th</sup> 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/22-10/04

05-11-2022

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 : 26-10-2022 @ 09.45 hr

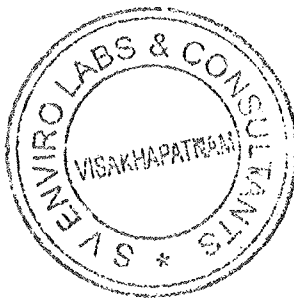
DURATION OF SAMPLING : 24 hours

## TEST REPORT

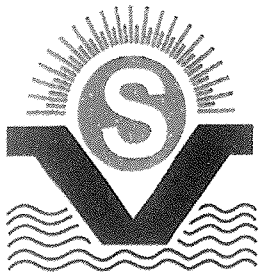
PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM <sub>10</sub> (size less than 10 microns)	µg/m <sup>3</sup>	67.4	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM <sub>2.5</sub> (size less than 2.5 microns)	µg/m <sup>3</sup>	28.5	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	14.1	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO <sub>x</sub>	µg/m <sup>3</sup>	16.3	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m <sup>3</sup>	48.6	2000	IS-5182 (P-10)
Ammonia – NH <sub>3</sub>	µg/m <sup>3</sup>	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	10/01/2022	09/01/2023

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Ref: SVELC/CIL/22-10/01

05-11-2022

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**

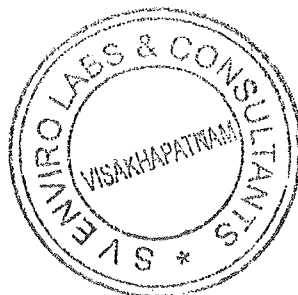
ATMOSPHERE CONDITION : **Clear Sky**

## TEST REPORT

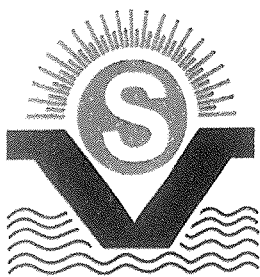
Sampling Date	Particulate matter (PM <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
03-10-2022	68.5	31.0	15.2	14.0	58.3	<20
06-10-2022	76.6	38.2	18.5	17.4	67.8	<20
10-10-2022	63.6	28.5	14.0	13.2	56.0	<20
13-10-2022	73.6	34.5	17.2	16.3	63.2	<20
17-10-2022	70.5	32.6	16.3	15.2	59.9	<20
20-10-2022	71.5	33.6	17.5	16.0	55.5	<20
24-10-2022	78.8	38.1	18.5	17.4	68.3	<20
27-10-2022	76.3	37.4	17.5	16.3	65.6	<20
31-10-2022	74.5	36.6	16.5	16.9	66.0	<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/22-10/02

05-11-2022

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
03-10-2022	72.1	33.0	16.5	14.0	60.3	32.1
06-10-2022	79.8	37.8	18.5	17.4	67.0	37.5
10-10-2022	71.4	32.0	15.3	14.6	58.8	27.8
13-10-2022	70.1	31.6	14.5	13.2	56.9	28.9
17-10-2022	77.5	35.9	17.4	16.3	64.2	33.6
20-10-2022	74.0	36.5	17.2	15.0	62.3	31.2
24-10-2022	76.6	36.6	17.4	16.0	62.3	34.0
27-10-2022	75.0	34.5	16.3	14.2	69.0	31.0
31-10-2022	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

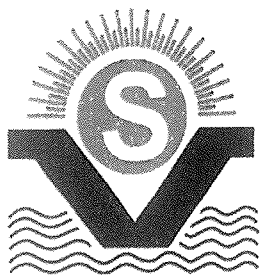
Instrument Used	Make	Model/SI No	Calibrated on	Calibration Due Date
Combo PM10&PM2.5 Sampler	Lata Envirotech Instruments	APM-250 S.No 113-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/22-10/03

05-11-2022

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

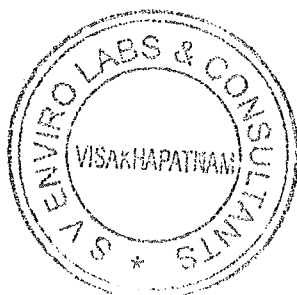
ATMOSPHERE CONDITION : Clear Sky

## TEST REPORT

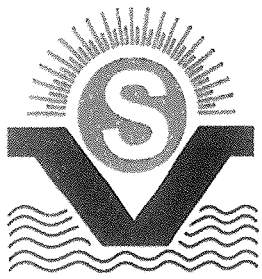
Sampling Date	Particulate matter (PM <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
03-10-2022	72.5	32.1	15.6	14.3	60.5	25.9
06-10-2022	78.8	35.6	18.4	17.3	68.9	29.0
10-10-2022	62.3	27.5	12.3	11.5	50.6	19.6
13-10-2022	70.5	31.2	15.0	13.6	61.5	23.1
17-10-2022	74.5	34.5	18.6	17.4	65.0	30.3
20-10-2022	72.0	32.3	15.0	11.2	60.2	25.6
24-10-2022	75.5	34.0	17.5	16.4	65.9	29.9
27-10-2022	78.5	35.6	16.4	15.2	63.6	29.6
31-10-2022	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	01-10-2022	30-09-2023

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Ref: SVELC/CIL/22-10/11

05-11-2022

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

SAMPLE PARTICULARS : STACK EMISSIONS

SOURCE OF COLLECTION : BAGGING PLANT - I

DATE & TIME OF START : 12-10-2022 @ 14.00 hr


## TEST REPORT

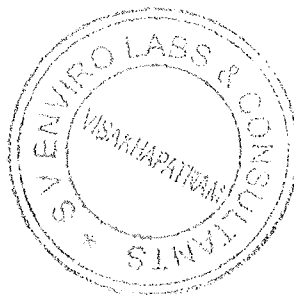
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>o</sup> C	31
4.	Stack temperature	<sup>o</sup> C	99
5.	Duration of Sampling	minutes	30

## EMISSION RATE

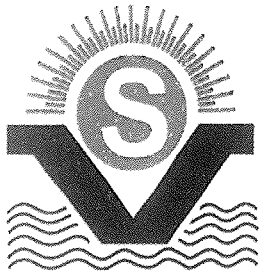
S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	56.0	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm <sup>3</sup>	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	11/11/2021	10/11/2022

  
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Ref: SVELC/CIL/22-10/12

05-11-2022

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 : 12-10-2022 @ 15.30 hr

## TEST REPORT

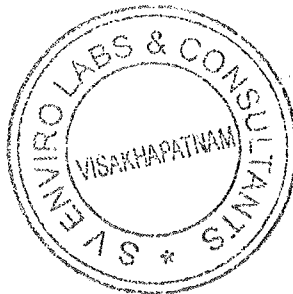
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	33
4.	Stack temperature	$^{\circ}\text{C}$	94.0
5.	Duration of Sampling	minutes	30

## EMISSION RATE

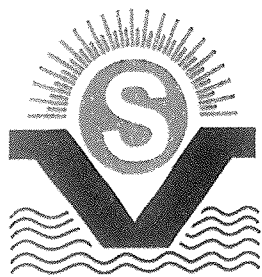
S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	57.9	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	11/11/2021	10/11/2022

  
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Ref: SVELC/CIL/22-10/13

05-11-2022

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 : 12-10-2022@ 16.30 hr

## TEST REPORT

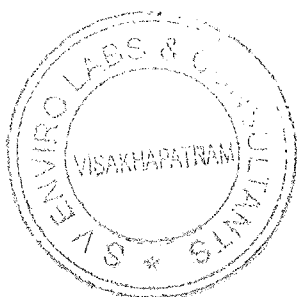
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	90
5.	Duration of Sampling	minutes	30

## EMISSION RATE

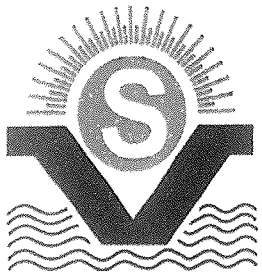
S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	$\text{mg}/\text{Nm}^3$	58.5	115	IS:11255-P-1
2..	Total Fluoride	$\text{mg}/\text{Nm}^3$	<0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	11/11/2021	10/11/2022

  
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Ref: SVELC/CIL/22-10/14

05-11-2022

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 : 12-10-2022@ 17:30 hr

## TEST REPORT

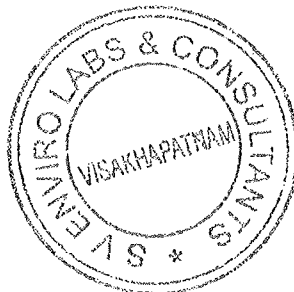
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>0</sup> C	31
4.	Stack temperature	<sup>0</sup> C	85
5.	Duration of Sampling	minutes	30

## EMISSION RATE

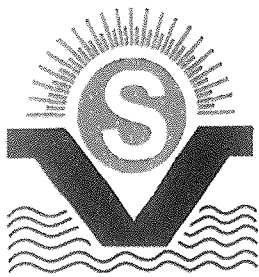
S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	56.3	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm <sup>3</sup>	< 0.5	10.0	IS:11255-P-5

Instrument Used	Make	Model	Calibrated on	Calibration Due Date
Stack Monitoring Kit	LES Stack Sampler	APM 160 S.No:23-DTK-2012	11/11/2021	10/11/2022

  
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Ref: SVELC/CIL/22-10/15

05-11-2022

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

SAMPLE PARTICULARS : NOISE LEVELS

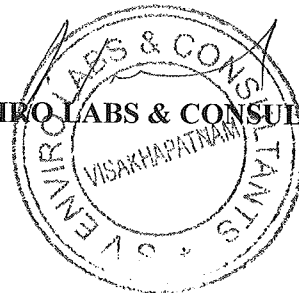
DATE OF COLLECTION : 12-10-2022 to 20-10-2022

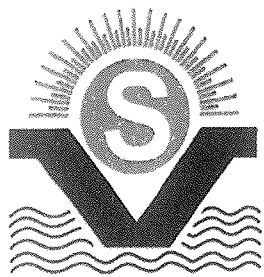
## TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	65.5	53.2	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	67.4	54.3	
3.	Near South Gate	61.0	52.5	
4.	Near South West Corner	65.6	52.1	
5.	Near North West Corner	63.5	53.9	
6.	Near East Side of Bagging Plant	69.0	64.5	
7.	Back Side of Technical Building	70.4	63.2	
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	12/05/2022	13/05/2023
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	17/06/2022	16/06/2023

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Ref: SVELC/CIL/22-10/20

05-11-2022

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 : **20-10-2022@ 10:30 hr**

## TEST REPORT

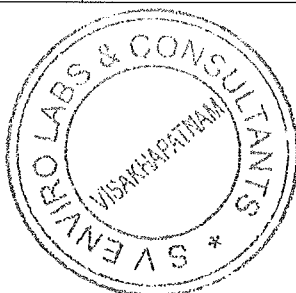
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	190
5.	Velocity	m/s	7.02
6.	Duration of Sampling	minutes	60
7.	Fuel Used	-	Natural Gas

## EMISSION RATE

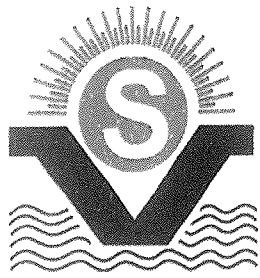
S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	BDL	-	
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	36.9	-	
4.	Carbon Dioxide – CO <sub>2</sub>	%	1.86	-	
5.	Carbon Monoxide – CO	ppm	1.49	-	
6.	Oxygen – O <sub>2</sub>	%	2.23	-	
7.	Total Fluoride	mg/Nm <sup>3</sup>	<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	11/11/2021	10/11/2022

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Ref: SVELC/CIL/22-10021

Date: 05-11-2022

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

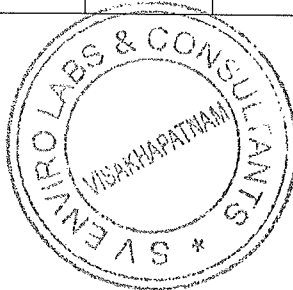
DATE & TIME OF START : 21-10-2022@ 10:15 hr

DURATION OF SAMPLING : 08 hours

## TEST REPORT

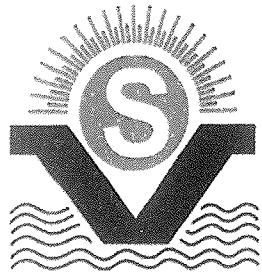
S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	910	IS:5182 (P-4) Gravimetric	15000

  
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Ref: SVELC/CIL/22-10022

Date: 05-11-2022

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**

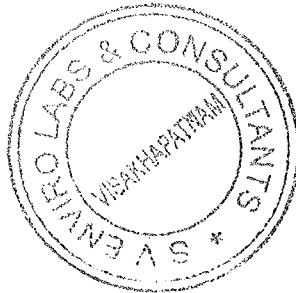
DATE & TIME OF START : **21-10-2022@ 10:45 hr**

DURATION OF SAMPLING : **08 hours**

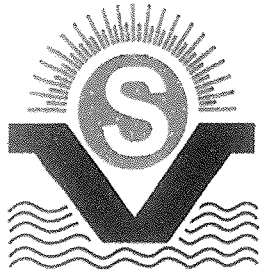
## TEST REPORT

S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	1124	IS:5182 (P-4) Gravimetric	15000

  
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Ref: SVELC/CIL/22-10022

Date: 05-11-2022

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

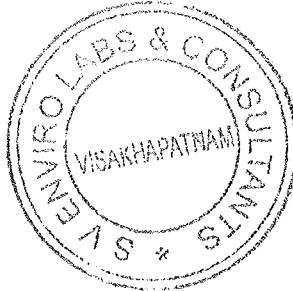
DATE & TIME OF START : 21-10-2022@ 11:30 hr

DURATION OF SAMPLING : 08 hours

## TEST REPORT

S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	849	IS:5182 (P-4) Gravimetric	15000

  
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Ref: SVELC/CIL/22-10023

Date: 05-11-2022

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

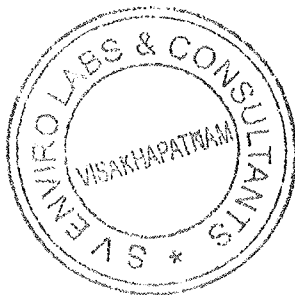
DATE & TIME OF START : 21-10-2022@ 12:3000 hr

DURATION OF SAMPLING : 08 hours

## TEST REPORT

S.NO	PARAMETER	UNIT	CONCENTRATION	METHOD	OSHA STANDARDS
1.	Total Particulate matter	$\mu\text{g}/\text{m}^3$	1201	IS:5182 (P-4) Gravimetric	15000

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Ref: SVELC/CIL/22-11/04

03-12-2022

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

15-11-2022 @ 09.30 hr

DURATION OF SAMPLING

24 hours

## TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM <sub>10</sub> (size less than 10 microns)	µg/m <sup>3</sup>	64.8	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM <sub>2.5</sub> (size less than 2.5 microns)	µg/m <sup>3</sup>	27.1	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	13.2	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO <sub>x</sub>	µg/m <sup>3</sup>	15.4	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m <sup>3</sup>	46.3	2000	IS-5182 (P-10)
Ammonia – NH <sub>3</sub>	µg/m <sup>3</sup>	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	10/01/2022	09/01/2023

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Ref: SVELC/CIL/22-11/05

03-12-2022

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 (GROSHAKTI)

DATE & TIME OF START : 11-11-2022 @ 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	$^{\circ}\text{C}$	30
4.	Stack temperature	$^{\circ}\text{C}$	84
5.	Exit Velocity	m/sec	14.1
6.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	$\text{mg}/\text{Nm}^3$	53.2	115	IS:11255-P-1
2.	Ammonia – $\text{NH}_3$	$\text{mg}/\text{Nm}^3$	15.3	300	IS:11255-P-6
3.	Total Fluoride	$\text{mg}/\text{Nm}^3$	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	08/11/2022	07/11/2023

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Ref: SVELC/CIL/22-11/06

03-12-2022

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 : 11-11-2022 @ 11.00hr

## 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	$^{\circ}\text{C}$	90
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 <sup>3</sup>	68.1	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	90.2	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	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	08/11/2022	07/11/2023

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Ref: SVELC/CIL/22-11/07

03-12-2022

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 (GROSHAKTI)**

DATE & TIME OF START : **11-11-2022 @ 11:45 hr**

## TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>0</sup> C	32
4.	Stack temperature	<sup>0</sup> C	94
5.	Exit Velocity	m/sec	14.1
6.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	21.3	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	10.6	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	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	08/11/2022	07/11/2023

  
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Ref: SVELC/CIL/22-11/08

03-12-2022

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 : 12-11-2022

DATE OF ANALYSIS COMPLETED : 24-11-2022

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.38	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	774	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	11.0	IS 3025 P:44
5	COD	mg/l	24.0	APHA, 5220-B, 22 <sup>th</sup> 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/22-11/09

03-12-2022

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 : 12-11-2022

DATE OF ANALYSIS COMPLETED : 24-11-2022

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.21	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	130	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	624	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	288	APHA, 5220-B, 22 <sup>th</sup> Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	120	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	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	22.3	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.67	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/22-11/10

03-12-2022

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 : **12-11-2022**

DATE OF ANALYSIS COMPLETED : **24-11-2022**

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.49	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	13.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	488	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	71.6	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	22.0	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	7.86	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	16.4	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.76	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.73	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.45	2.0	IS.3025, P-60

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Ref: SVELC/CIL/22-11/01

03-12-2022

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-11-2022	71.2	32.3	16.1	14.9	59.9	<20
04-11-2022	74.6	35.1	17.4	16.7	65.1	<20
07-11-2022	69.4	29.9	14.7	12.7	58.4	<20
10-11-2022	70.1	33.1	16.5	15.1	61.8	<20
14-11-2022	68.9	29.7	15.6	14.3	58.1	<20
17-11-2022	73.2	34.8	16.7	15.9	57.6	<20
21-11-2022	76.3	37.2	17.8	16.7	65.1	<20
24-11-2022	74.8	36.1	16.7	15.8	62.9	<20
28-11-2022	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	01-10-2022	30-09-2023

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Ref: SVELC/CIL/22-11/02

03-12-2022

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 <sub>10</sub> ) µg/m <sup>3</sup>	Particulate matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Sulphur dioxide SO <sub>2</sub> µg/m <sup>3</sup>	Oxides of nitrogen NO <sub>x</sub> µg/m <sup>3</sup>	Carbon monoxide CO µg/m <sup>3</sup>	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>
01-11-2022	75.1	34.2	15.9	14.7	62.9	33.9
04-11-2022	76.2	35.9	17.5	16.5	65.7	35.2
07-11-2022	73.7	33.5	16.1	15.2	59.6	29.1
10-11-2022	72.9	32.2	15.4	14.9	58.1	30.3
14-11-2022	75.3	33.8	16.8	15.4	62.3	31.8
17-11-2022	72.8	34.2	16.2	14.8	60.1	33.9
21-11-2022	74.6	34.9	16.5	15.2	60.8	32.2
24-11-2022	73.2	32.1	15.5	13.7	65.2	28.6
28-11-2022	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	01-10-2022	30-09-2023

  
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Ref: SVELC/CIL/22-11/03

03-12-2022

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-11-2022	75.3	33.5	16.7	15.1	62.5	28.5
04-11-2022	79.2	34.2	17.9	16.2	66.3	28.1
07-11-2022	70.6	31.2	15.8	14.5	58.1	26.2
10-11-2022	72.8	32.5	16.1	14.9	59.2	25.6
14-11-2022	76.3	35.6	17.6	16.9	60.5	27.1
17-11-2022	75.1	34.5	16.2	14.2	57.9	22.3
21-11-2022	72.9	32.7	15.9	14.7	62.1	26.6
24-11-2022	76.2	34.8	16.1	14.2	60.8	28.1
28-11-2022	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	01-10-2022	30-09-2023

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Ref: SVELC/CIL/22-11/11

03-12-2022

NAME AND ADDRESS

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

SAMPLE PARTICULARS

: STACK EMISSIONS

SOURCE OF COLLECTION

: BAGGING PLANT - I

DATE & TIME OF START

: 17-11-2022 @ 09.45 hr

## TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	29
4.	Stack temperature	$^{\circ}\text{C}$	92
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	$\text{mg}/\text{Nm}^3$	53.9	115	IS:11255-P-1
2.	Total Fluoride	$\text{mg}/\text{Nm}^3$	< 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/22-11/12

03-12-2022

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 : **17-11-2022 @ 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	<sup>0</sup> C	30
4.	Stack temperature	<sup>0</sup> C	88
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	52.1	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	< 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/22-11/13

03-12-2022

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 : 17-11-2022@ 11.45 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	$^{\circ}\text{C}$	85
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	$\text{mg}/\text{Nm}^3$	56.3	115	IS:11255-P-1
2..	Total Fluoride	$\text{mg}/\text{Nm}^3$	<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/22-11/14

03-12-2022

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 : 18-11-2022@ 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	<sup>o</sup> C	30
4.	Stack temperature	<sup>o</sup> C	83
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	54.7	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm <sup>3</sup>	< 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/22-11/15

03-12-2022

NAME AND ADDRESS

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

SAMPLE PARTICULARS

: NOISE LEVELS

DATE OF COLLECTION

: 11-11-2022 to 18-11-2022

## TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	67.2	55.3	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	69.2	56.7	
3.	Near South Gate	63.3	54.9	
4.	Near South West Corner	67.1	54.2	
5.	Near North West Corner	65.7	55.5	
6.	Near East Side of Bagging Plant	71.1	66.3	
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	13/05/2023
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	17/06/2022	16/06/2023

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Ref: SVELC/CIL/22-11/20

03-12-2022

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 : 12-11-2022@ 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	$^{\circ}\text{C}$	184
5.	Velocity	m/s	6.89
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 <sup>3</sup>	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	BDL	-	
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	33.2	-	
4.	Carbon Dioxide – CO <sub>2</sub>	%	1.81	-	
5.	Carbon Monoxide – CO	ppm	1.44	-	
6.	Oxygen – O <sub>2</sub>	%	2.21	-	
7.	Total Fluoride	mg/Nm <sup>3</sup>	<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/22-11/21

03-12-2022

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 : 12-11-2022@ 11:00hr

## TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>0</sup> C	32
4.	Stack temperature	<sup>0</sup> C	178
5.	Diameter of Stack	m	0.75
6.	Cross sectional area of Stack	m <sup>2</sup>	0.44
7.	Flue Gas Velocity	m/sec	13.8
8.	Flow rate	m <sup>3</sup> /hr	21859
9.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	66.1	115	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	47.2	-	IS:11255-P-2
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	73.7	-	IS:11255-P-7
4.	Non Methane Hydrocarbons (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	<1.0	-	USEPA TO 18
5.	Carbon Monoxide – CO (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	77.3	-	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/22-11/22

03-12-2022

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 : 12-11-2022@ 12:00hr

## TEST REPORT

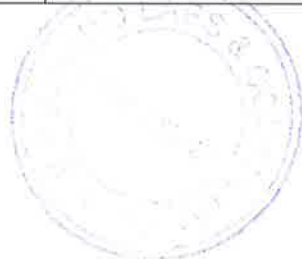
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>0</sup> C	33
4.	Stack temperature	<sup>0</sup> C	171
5.	Diameter of Stack	m	0.75
6.	Cross sectional area of Stack	m <sup>2</sup>	0.44
7.	Flue Gas Velocity	m/sec	13.3
8.	Flow rate	m <sup>3</sup> /hr	21067
9.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	70.1	115	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	51.4	-	IS:11255-P-2
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	76.4	-	IS:11255-P-7
4.	Non Methane Hydrocarbons (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	<1.0	-	USEPA TO 18
5.	Carbon Monoxide – CO (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	81.5	-	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/22-12/04

03-01-2023

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 : 21-12-2022 @ 09.45 hr

DURATION OF SAMPLING : 24 hours

## TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM <sub>10</sub> (size less than 10 microns)	µg/m <sup>3</sup>	67.6	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM <sub>2.5</sub> (size less than 2.5 microns)	µg/m <sup>3</sup>	28.7	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	14.2	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO <sub>x</sub>	µg/m <sup>3</sup>	16.2	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m <sup>3</sup>	48.5	2000	IS-5182 (P-10)
Ammonia – NH <sub>3</sub>	µg/m <sup>3</sup>	<20	400	IS-5182 (P-25)

Instrument Used	Make	Model	Calibrated on	Calibration Due
Combo PM10&PM2.5 Sampler	Lata Envirotech	APM 250	10/01/2022	09/01/2023

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Ref: SVELC/CIL/22-12/05

03-01-2023

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 (14:35:14 - GROSHAKTI)

DATE & TIME OF START : 07-12-2022 @ 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	<sup>0</sup> C	31
4.	Stack temperature	<sup>0</sup> C	90
5.	Exit Velocity	m/sec	14.8
6.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	41.9	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	19.5	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	0.67	<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/22-12/06

03-01-2023

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 : 07-12-2022 @ 11.00hr

## 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	$^{\circ}\text{C}$	90
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	$\text{mg}/\text{Nm}^3$	65.3	115	IS:11255-P-1
2.	Ammonia – $\text{NH}_3$	$\text{mg}/\text{Nm}^3$	51.8	300	IS:11255-P-6
3.	Total Fluoride	$\text{mg}/\text{Nm}^3$	3.27	<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/22-12/07

03-01-2023

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 (10:26:26)

DATE & TIME OF START : 07-12-2022 @ 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	$^{\circ}\text{C}$	93
5.	Exit Velocity	m/sec	14.2
6.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	$\text{mg}/\text{Nm}^3$	51.2	115	IS:11255-P-1
2.	Ammonia – $\text{NH}_3$	$\text{mg}/\text{Nm}^3$	68.8	300	IS:11255-P-6
3.	Total Fluoride	$\text{mg}/\text{Nm}^3$	2.21	<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/22-12/08

03-01-2023

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 : 10-12-2022

DATE OF ANALYSIS COMPLETED : 20-12-2022

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.52	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	711	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	13.0	IS 3025 P:44
5	COD	mg/l	29.5	APHA, 5220-B, 22 <sup>th</sup> 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/22-12/09

03-01-2023

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 : 10-12-2022

DATE OF ANALYSIS COMPLETED : 20-12-2022

## 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	106	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	736	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	296	APHA, 5220-B, 22 <sup>th</sup> Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	124	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	17.2	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.16	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	25.1	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.89	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.50	IS.3025, P-52
12.	Fluoride as F	mg/l	0.44	IS.3025, P-60

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Ref: SVELC/CIL/22-12/10

03-01-2023

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 : 10-12-2022

DATE OF ANALYSIS COMPLETED : 20-12-2022

## 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	562	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	82.8	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	7.96	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.08	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	13.9	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	0.59	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/22-12/01

03-01-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-12-2022	69.7	29.8	15.4	14.2	57.6	<20
05-12-2022	72.4	33.9	16.2	15.6	62.8	<20
08-12-2022	70.2	31.4	15.6	13.8	60.2	<20
12-12-2022	73.4	34.7	17.3	15.9	64.5	<20
15-12-2022	71.6	31.1	16.4	15.1	61.3	<20
19-12-2022	75.8	35.9	17.5	16.7	60.9	<20
22-12-2022	73.5	36.1	16.9	15.8	62.4	<20
26-12-2022	76.8	37.3	17.3	16.9	65.7	<20
29-12-2022	74.8	36.2	16.8	15.6	67.1	<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/22-12/02

03-01-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-12-2022	73.4	33.1	14.8	13.9	59.8	31.6
05-12-2022	74.6	34.7	16.9	15.3	62.9	33.4
08-12-2022	71.8	32.9	15.3	14.5	56.4	27.3
12-12-2022	75.1	33.8	16.1	15.8	61.7	32.9
15-12-2022	77.6	35.3	17.6	16.2	65.1	34.2
19-12-2022	75.4	36.1	17.0	15.6	63.5	36.7
22-12-2022	72.8	32.8	15.7	14.3	57.8	29.4
26-12-2022	76.5	34.6	16.5	14.9	69.4	31.2
29-12-2022	72.1	33.7	15.8	13.6	66.3	28.6
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 F13-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/22-12/03

03-01-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-12-2022	72.1	31.8	15.4	14.2	59.3	26.4
05-12-2022	76.4	32.9	16.8	15.1	63.1	25.9
08-12-2022	68.9	30.1	14.6	13.7	55.4	24.6
12-12-2022	75.6	34.3	17.2	15.8	62.7	28.9
15-12-2022	79.2	37.5	18.4	17.6	65.4	31.2
19-12-2022	77.6	35.9	17.1	15.3	61.2	25.7
22-12-2022	75.4	33.8	16.7	15.9	65.6	29.4
26-12-2022	78.7	36.2	17.3	15.5	64.7	31.6
29-12-2022	74.9	34.5	16.4	14.9	67.6	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 114-DTA-2019	01-10-2022	30-09-2023

  
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Ref: SVELC/CIL/22-12/11

03-01-2023

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 : 08-12-2022 @ 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	<sup>0</sup> C	31
4.	Stack temperature	<sup>0</sup> C	96
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	55.6	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	< 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/22-12/12

03-01-2023

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 : 08-12-2022@ 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	32
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 <sup>3</sup>	53.8	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	<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/22-12/13

03-01-2023

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 : 09-12-2022@ 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	<sup>0</sup> C	30
4.	Stack temperature	<sup>0</sup> C	88
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	51.1	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm <sup>3</sup>	< 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/22-12/14

03-01-2023

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

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF COLLECTION : 07-12-2022 to 18-11-2022

## TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	68.5	56.1	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	70.6	57.3	
3.	Near South Gate	65.1	55.7	
4.	Near South West Corner	68.3	55.6	
5.	Near North West Corner	66.9	56.1	
6.	Near East Side of Bagging Plant	72.4	67.5	
7.	Back Side of Technical Building	67.9	60.8	
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	12/05/2022	13/05/2023
2.	Digital Sound Level Meter	Lutron	SL-4033	Q660787	17/06/2022	16/06/2023

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Ref: SVELC/CIL/22-12/19

03-01-2023

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 : 10-12-2022@ 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	<sup>0</sup> C	30
4.	Stack temperature	<sup>0</sup> C	175
5.	Velocity	m/s	6.62
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 <sup>3</sup>	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	BDL	-	
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	36.8	-	
4.	Carbon Dioxide – CO <sub>2</sub>	%	1.90	-	
5.	Carbon Monoxide – CO	ppm	1.52	-	
6.	Oxygen – O <sub>2</sub>	%	2.25	-	
7.	Total Fluoride	mg/Nm <sup>3</sup>	<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/23-01/04

03-02-2023

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 : 11-01-2023 @ 10.00 hr

DURATION OF SAMPLING : 24 hours

## TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM <sub>10</sub> (size less than 10 microns)	µg/m <sup>3</sup>	64.3	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM <sub>2.5</sub> (size less than 2.5 microns)	µg/m <sup>3</sup>	26.1	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	13.5	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO <sub>x</sub>	µg/m <sup>3</sup>	15.4	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m <sup>3</sup>	46.1	2000	IS-5182 (P-10)
Ammonia – NH <sub>3</sub>	µg/m <sup>3</sup>	<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/23-01/05

03-02-2023

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 (14:35:14 - GROSHAKTI)

DATE & TIME OF START : 13-01-2023 @ 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	$^{\circ}\text{C}$	30
4.	Stack temperature	$^{\circ}\text{C}$	98
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	$\text{mg}/\text{Nm}^3$	59.2	115	IS:11255-P-1
2.	Ammonia – $\text{NH}_3$	$\text{mg}/\text{Nm}^3$	124	300	IS:11255-P-6
3.	Total Fluoride	$\text{mg}/\text{Nm}^3$	0.85	<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/23-01/06

03-02-2023

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 : 13-01-2023 @ 11.15hr

## TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	$^{\circ}\text{C}$	30
4.	Stack temperature	$^{\circ}\text{C}$	85
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 <sup>3</sup>	67.3	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	115	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	2.89	<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/23-01/07

03-02-2023

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 (10:26:26)

DATE & TIME OF START : 13-01-2023 @ 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	$^{\circ}\text{C}$	31
4.	Stack temperature	$^{\circ}\text{C}$	90
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	$\text{mg}/\text{Nm}^3$	45.6	115	IS:11255-P-1
2.	Ammonia – $\text{NH}_3$	$\text{mg}/\text{Nm}^3$	101	300	IS:11255-P-6
3.	Total Fluoride	$\text{mg}/\text{Nm}^3$	0.19	<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/23-01/08

03-02-2023

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 : 18-01-2023

DATE OF ANALYSIS COMPLETED : 30-01-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	8.02	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	785	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	34.6	APHA, 5220-B, 22 <sup>th</sup> 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/23-01/09

03-02-2023

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 : 18-01-2023

DATE OF ANALYSIS COMPLETED : 30-01-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.47	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	120	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	685	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	275	APHA, 5220-B, 22 <sup>th</sup> Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	112	IS 3025 P 44
6.	Oil & Grease	mg/l	2.6	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	19.1	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	28.6	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.97	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.26	IS.3025, P-52
12.	Fluoride as F	mg/l	0.42	IS.3025, P-60

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Ref: SVELC/CIL/23-01/10

03-02-2023

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 : 18-01-2023

DATE OF ANALYSIS COMPLETED : 30-01-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.69	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	11.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	510	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	75.3	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	7.74	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 Kjheldal Nitrogen (as NH3)	mg/l	15.3	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.70	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	0.47	2.0	IS.3025, P-60

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Ref: SVELC/CIL/23-01/01

03-02-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
02-01-2023	67.8	28.1	14.5	13.6	55.3	<20
03-02-2023	70.1	31.6	15.4	14.0	60.8	<20
09-01-2023	68.1	32.5	16.7	14.8	62.1	<20
10-01-2023	72.1	32.9	18.2	14.3	62.3	<20
16-01-2023	69.5	33.2	17.3	16.1	62.9	<20
17-01-2023	73.9	32.5	17.5	15.6	58.3	<20
23-01-2023	70.1	33.8	16.1	14.8	60.4	<20
24-01-2023	73.5	34.6	16.9	15.7	63.2	<20
30-01-2023	72.6	34.8	15.4	14.9	64.8	<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/23-01/02

03-02-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
02-01-2023	70.2	31.9	13.6	12.4	58.9	31.6
03-02-2023	72.5	33.4	15.7	14.3	60.1	30.9
09-01-2023	68.9	30.5	14.6	13.7	54.7	26.1
10-01-2023	73.5	31.8	17.2	16.5	63.4	34.6
16-01-2023	74.9	33.0	16.8	15.1	62.9	32.1
17-01-2023	72.6	32.8	15.9	14.6	60.2	33.8
23-01-2023	70.1	31.2	14.5	13.4	55.9	27.6
24-01-2023	73.7	32.6	15.2	13.9	65.3	30.1
30-01-2023	70.1	31.2	14.6	12.5	63.8	27.3
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 113-DTA-2019	01-10-2022	30-09-2023

  
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Ref: SVELC/CIL/23-01/03

03-02-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
02-01-2023	70.1	30.1	14.8	13.6	57.2	23.6
03-02-2023	73.5	31.2	15.6	14.3	60.1	22.8
09-01-2023	66.3	28.4	13.5	13.0	52.9	23.1
10-01-2023	73.5	32.6	16.4	14.5	60.8	26.4
16-01-2023	77.8	36.0	19.1	18.2	63.5	30.1
17-01-2023	74.6	32.8	16.0	14.5	60.2	27.6
23-01-2023	77.6	35.2	17.4	16.8	67.8	31.2
24-01-2023	80.2	37.6	18.2	16.9	65.3	32.7
30-01-2023	76.4	36.1	17.8	15.4	68.2	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 114-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-01/11

03-02-2023

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 : 17-01-2023 @ 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	$^{\circ}\text{C}$	29
4.	Stack temperature	$^{\circ}\text{C}$	89
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	57.3	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	< 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/23-01/12

03-02-2023

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 : 17-01-2023@ 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	<sup>0</sup> C	30
4.	Stack temperature	<sup>0</sup> C	95
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	50.1	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	<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/23-01/13

03-02-2023

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 : 18-01-2023@ 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	<sup>0</sup> C	29
4.	Stack temperature	<sup>0</sup> C	82
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	54.8	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm <sup>3</sup>	< 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/23-01/14

03-02-2023

NAME AND ADDRESS

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

SAMPLE PARTICULARS

: NOISE LEVELS

DATE OF COLLECTION

: 13-01-2023 to 18-01-2023

## TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	69.7	57.3	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	68.1	55.9	
3.	Near South Gate	66.8	56.3	
4.	Near South West Corner	69.2	54.2	
5.	Near North West Corner	64.8	55.8	
6.	Near East Side of Bagging Plant	70.9	66.7	
7.	Back Side of Technical Building	68.7	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	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/23-01/19

03-02-2023

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 : 13-01-2023@ 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	$^{\circ}\text{C}$	32
4.	Stack temperature	$^{\circ}\text{C}$	182
5.	Velocity	m/s	7.03
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 <sup>3</sup>	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	BDL	-	
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	34.9	-	
4.	Carbon Dioxide – CO <sub>2</sub>	%	1.84	-	
5.	Carbon Monoxide – CO	ppm	1.55	-	
6.	Oxygen – O <sub>2</sub>	%	2.17	-	
7.	Total Fluoride	mg/Nm <sup>3</sup>	<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/23-02/04

03-03-2023

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

: 15-02-2023 @ 10.30 hr

DURATION OF SAMPLING

: 24 hours

## TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM <sub>10</sub> (size less than 10 microns)	µg/m <sup>3</sup>	61.9	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM <sub>2.5</sub> (size less than 2.5 microns)	µg/m <sup>3</sup>	24.8	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	12.9	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO <sub>x</sub>	µg/m <sup>3</sup>	14.7	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m <sup>3</sup>	44.2	2000	IS-5182 (P-10)
Ammonia – NH <sub>3</sub>	µg/m <sup>3</sup>	<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

03-03-2023

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 (10:26:26)

DATE & TIME OF START

10-02-2023 @ 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	$^{\circ}\text{C}$	30
4.	Stack temperature	$^{\circ}\text{C}$	93
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 <sup>3</sup>	63.2	115	IS:11255-P-1
2.	Ammonia - NH <sub>3</sub>	mg/Nm <sup>3</sup>	44.8	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	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/23-02/06

03-03-2023

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 : 10-02-2023 @ 11.30hr

## 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	$^{\circ}\text{C}$	93
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	$\text{mg}/\text{Nm}^3$	50.9	115	IS:11255-P-1
2.	Ammonia – $\text{NH}_3$	$\text{mg}/\text{Nm}^3$	101	300	IS:11255-P-6
3.	Total Fluoride	$\text{mg}/\text{Nm}^3$	2.67	<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/23-02/07

03-03-2023

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 (14:35:14 GROSHAKTHI)

DATE & TIME OF START : 10-02-2023 @ 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	$^{\circ}\text{C}$	31
4.	Stack temperature	$^{\circ}\text{C}$	87
5.	Exit Velocity	m/sec	12.8
6.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	52.7	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	80.9	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	2.30	<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/23-02/08

03-03-2023

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 : **15-02-2023**

DATE OF ANALYSIS COMPLETED : **25-02-2023**

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.84	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	749	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	20.0	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	31.2	APHA, 5220-B, 22 <sup>th</sup> 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/23-02/09

03-03-2023

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 : 15-02-2023

DATE OF ANALYSIS COMPLETED : 25-02-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.32	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	109	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	711	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	288	APHA, 5220-B, 22 <sup>th</sup> Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	120	IS 3025 P 44
6.	Oil & Grease	mg/l	2.9	APHA, 5520-D, 5-38, 23rd Ed., 2017
7.	Ammonical Nitrogen as N	mg/l	16.8	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.14	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjheldal Nitrogen (as NH3)	mg/l	26.8	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.73	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.38	IS.3025, P-52
12.	Fluoride as F	mg/l	0.40	IS.3025, P-60

  
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Ref: SVELC/CIL/23-02/10

03-03-2023

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

15-02-2023

DATE OF ANALYSIS COMPLETED

25-02-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.65	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	13.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	544	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	90.6	250	APHA, 5220-B, 23rd Ed., 2012
5.	Biochemical Oxygen Demand (3 days at 27°C)	mg/l	25.0	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	7.39	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	12.2	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	0.57	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.45	2.0	IS.3025, P-60

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Ref: SVELC/CIL/23-02/01

03-03-2023

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 <sub>10</sub> ) µg/m <sup>3</sup>	Particulate matter (PM <sub>2.5</sub> ) µg/m <sup>3</sup>	Sulphur dioxide SO <sub>2</sub> µg/m <sup>3</sup>	Oxides of nitrogen NO <sub>x</sub> µg/m <sup>3</sup>	Carbon monoxide CO µg/m <sup>3</sup>	Ammonia (NH <sub>3</sub> ) µg/m <sup>3</sup>
02-02-2023	69.4	29.8	15.2	14.3	58.1	<20
06-02-2023	73.6	33.2	16.0	15.2	64.8	<20
07-02-2023	71.3	31.0	15.8	14.7	61.5	<20
13-02-2023	75.2	34.6	17.6	16.0	66.3	<20
14-02-2023	72.8	32.1	16.5	15.4	63.7	<20
20-02-2023	76.4	34.8	18.2	16.8	67.2	<20
21-02-2023	74.5	33.2	17.6	15.9	65.0	<20
27-02-2023	70.2	32.5	15.7	14.6	60.8	<20
28-02-2023	68.0	31.4	14.9	13.8	57.6	<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/23-02/02

03-03-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
02-02-2023	72.4	32.2	14.5	13.1	61.8	30.7
06-02-2023	75.8	34.5	16.2	15.0	64.5	34.2
07-02-2023	73.4	33.0	15.8	14.3	62.4	32.6
13-02-2023	77.2	35.9	18.1	17.2	67.1	33.1
14-02-2023	75.6	34.6	17.5	16.4	65.9	32.9
20-02-2023	70.5	31.8	15.4	13.8	63.4	29.8
21-02-2023	72.4	32.9	14.7	13.2	60.2	31.2
27-02-2023	76.8	34.2	16.8	14.6	64.1	33.8
28-02-2023	74.2	33.4	15.9	14.3	61.8	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/23-02/03

03-03-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
02-02-2023	73.4	32.6	15.3	14.1	60.8	25.4
06-02-2023	70.8	30.4	14.8	13.7	58.4	23.6
07-02-2023	68.9	29.7	13.9	12.6	56.2	20.3
13-02-2023	72.4	31.3	15.7	14.8	62.4	24.9
14-02-2023	75.1	33.8	18.6	16.4	66.3	32.0
20-02-2023	78.9	35.4	17.8	15.9	64.8	30.5
21-02-2023	81.5	36.7	18.5	17.3	69.4	34.8
27-02-2023	76.3	34.9	17.4	16.5	67.8	31.9
28-02-2023	74.8	33.2	16.9	15.8	64.5	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	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-02/11

03-03-2023

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

: 13-02-2023 @ 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	$^{\circ}\text{C}$	30
4.	Stack temperature	$^{\circ}\text{C}$	93
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	$\text{mg}/\text{Nm}^3$	53.4	115	IS:11255-P-1
2.	Total Fluoride	$\text{mg}/\text{Nm}^3$	< 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/23-02/12

03-03-2023

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

: 13-02-2023 @ 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	$^{\circ}\text{C}$	31
4.	Stack temperature	$^{\circ}\text{C}$	89
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	53.7	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	<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/23-02/13

03-03-2023

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

14-02-2023 @ 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	30
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 <sup>3</sup>	51.6	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm <sup>3</sup>	< 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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(Environmental Engineers & Consultants in Pollution Control)

**Corporate Office :** Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012  
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**Branch Office :** 2-53, Mahipala Street, Yanam - 533464.

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Ref: SVELC/CIL/23-02/14

03-03-2023

NAME AND ADDRESS

:

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

SAMPLE PARTICULARS

:

NOISE LEVELS

DATE OF COLLECTION

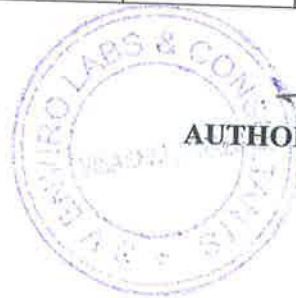
:

10-02-2023 to 15-02-2023

## TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	67.8	55.1	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	69.2	56.3	
3.	Near South Gate	67.5	57.8	
4.	Near South West Corner	70.6	55.9	
5.	Near North West Corner	67.6	57.3	
6.	Near East Side of Bagging Plant	71.8	67.4	
7.	Back Side of Technical Building	66.2	59.3	
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	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/23-02/19

03-03-2023

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 : 13-02-2023@ 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	$^{\circ}\text{C}$	33
4.	Stack temperature	$^{\circ}\text{C}$	177
5.	Velocity	m/s	6.85
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 <sup>3</sup>	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	BDL	-	
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	34.9	-	
4.	Carbon Dioxide – CO <sub>2</sub>	%	1.81	-	
5.	Carbon Monoxide – CO	ppm	1.48	-	
6.	Oxygen – O <sub>2</sub>	%	2.2	-	
7.	Total Fluoride	mg/Nm <sup>3</sup>	<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/23-02/20

03-03-2023

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 : 14-02-2023@ 14:30hr

## TEST REPORT

S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>0</sup> C	32
4.	Stack temperature	<sup>0</sup> C	182
5.	Diameter of Stack	m	0.75
6.	Cross sectional area of Stack	m <sup>2</sup>	0.44
7.	Flue Gas Velocity	m/sec	14.2
8.	Flow rate	m <sup>3</sup> /hr	22492
9.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	63.9	115	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	44.2	-	IS:11255-P-2
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	70.6	-	IS:11255-P-7
4.	Non Methane Hydrocarbons (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	<1.0	-	USEPA TO 18
5.	Carbon Monoxide – CO (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	75.1	-	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/23-02/21

03-03-2023

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 : 14-02-2023@ 15:30hr

## TEST REPORT

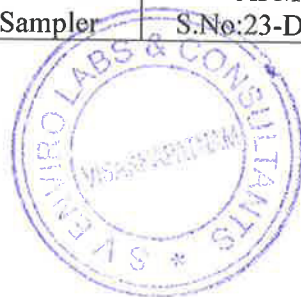
S.No.	DESCRIPTION	UNIT	RESULT
1.	Pitot Coefficient	-	0.87
2.	Specific gravity of Fluid	-	1.0
3.	Temperature @ DGM	<sup>0</sup> C	33
4.	Stack temperature	<sup>0</sup> C	175
5.	Diameter of Stack	m	0.75
6.	Cross sectional area of Stack	m <sup>2</sup>	0.44
7.	Flue Gas Velocity	m/sec	13.7
8.	Flow rate	m <sup>3</sup> /hr	21701
9.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	66.9	115	IS:11255-P-1
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	47.9	-	IS:11255-P-2
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	73.5	-	IS:11255-P-7
4.	Non Methane Hydrocarbons (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	<1.0	-	USEPA TO 18
5.	Carbon Monoxide – CO (at 15% O <sub>2</sub> )	mg/Nm <sup>3</sup>	77.6	-	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/23-03/04

03-04-2023

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 : 16-03-2023 @ 10.00 hr

DURATION OF SAMPLING : 24 hours

## TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM <sub>10</sub> (size less than 10 microns)	µg/m <sup>3</sup>	65.3	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM <sub>2.5</sub> (size less than 2.5 microns)	µg/m <sup>3</sup>	25.7	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	13.7	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO <sub>x</sub>	µg/m <sup>3</sup>	15.8	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m <sup>3</sup>	47.5	2000	IS-5182 (P-10)
Ammonia – NH <sub>3</sub>	µg/m <sup>3</sup>	<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/23-03/05

03-04-2023

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 : 17-03-2023 @ 11.00 hr

DURATION OF SAMPLING : 24 hours

## TEST REPORT

PARAMETER	UNIT	RESULT	STANDARD	METHOD
Particulate Matter –PM <sub>10</sub> (size less than 10 microns)	µg/m <sup>3</sup>	68.1	100	IS:5182 (P-23) Gravimetric
Particulate Matter –PM <sub>2.5</sub> (size less than 2.5 microns)	µg/m <sup>3</sup>	26.9	60	IS:5182 (P-24) Gravimetric
Sulphur Dioxide – SO <sub>2</sub>	µg/m <sup>3</sup>	14.3	80	IS:5182 (P-2)- West and Gaeke Method
Oxides of Nitrogen - NO <sub>x</sub>	µg/m <sup>3</sup>	13.4	80	IS:5182(P-6) - Jacob & Hochheiser Method
Carbon Monoxide – CO	µg/m <sup>3</sup>	44.8	2000	IS-5182 (P-10)
Ammonia – NH <sub>3</sub>	µg/m <sup>3</sup>	<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/23-03/06

03-04-2023

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 : 10-03-2023 @ 11.00hr

## 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	$^{\circ}\text{C}$	84
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 <sup>3</sup>	56.1	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	108	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	1.15	<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/23-03/07

03-04-2023

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 : 10-03-2023 @ 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	°C	32
4.	Stack temperature	°C	94
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 <sup>3</sup>	42.9	115	IS:11255-P-1
2.	Ammonia – NH <sub>3</sub>	mg/Nm <sup>3</sup>	53.5	300	IS:11255-P-6
3.	Total Fluoride	mg/Nm <sup>3</sup>	0.12	<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/23-03/08

03-04-2023

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 : 15-03-2023

DATE OF ANALYSIS COMPLETED : 25-03-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1	pH	-	7.96	APHA, 4500-H+B, 23rd Ed., 2017
2	TDS	mg/l	728	APHA, 2540-C, 23rd Ed., 2017
3	TSS	mg/l	27.0	APHA, 2540-D, 23rd Ed., 2017
4	BOD (3 days at 27°C)	mg/l	19.0	IS 3025 P:44
5	COD	mg/l	39.5	APHA, 5220-B, 22 <sup>th</sup> 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/23-03/09

03-04-2023

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 : 15-03-2023

DATE OF ANALYSIS COMPLETED : 25-03-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	TEST METHOD
1.	pH	-	7.40	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	115	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	669	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	297	APHA, 5220-B, 22 <sup>th</sup> 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	18.2	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.16	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjheldal Nitrogen (as NH3)	mg/l	29.3	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	2.81	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	1.45	IS.3025, P-52
12.	Fluoride as F	mg/l	0.41	IS.3025, P-60

  
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Ref: SVELC/CIL/23-03/10

03-04-2023

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 : 15-03-2023

DATE OF ANALYSIS COMPLETED : 25-03-2023

## TEST REPORT

S.NO	PARAMETER	UNIT	RESULT	STANDARDS	TEST METHOD
1.	pH	-	7.54	5.5-9.0	APHA, 4500-H+B, 23rd Ed., 2017
2.	Total Suspended Solids	mg/l	15.0	200	APHA, 2540-D, 23rd Ed., 2017
3.	Total Dissolved Solids	mg/l	523	2100	APHA, 2540-C, 23rd Ed., 2017
4.	Chemical Oxygen Demand	mg/l	81.6	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	7.58	50	APHA, 4500-NH3, 23rd Ed., 2017
8.	Free Ammonia (as NH3)	mg/l	0.08	5.0	APHA, 4500-NH3, 23rd Ed., 2017
9.	Total Kjeldal Nitrogen (as NH3)	mg/l	14.2	100	APHA, 4500-NH3, 23rd Ed., 2017
10.	Nitrate Nitrogen	mg/l	0.72	10.0	APHA, 4500-NO3 23rd Ed., 2017
11.	Phosphates as P	mg/l	0.61	5.0	IS.3025, P-52
12.	Fluoride as F	mg/l	0.49	2.0	IS.3025, P-60

  
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Ref: SVELC/CIL/23-03/01

03-04-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-03-2023	71.5	30.5	16.1	15.2	59.3	<20
06-03-2023	72.1	32.6	14.6	12.5	62.1	<20
07-03-2023	69.2	30.1	16.7	13.4	63.5	<20
13-03-2023	73.5	33.4	18.1	15.2	64.7	<20
14-03-2023	74.6	34.5	15.1	14.3	66.1	<20
20-03-2023	73.5	32.4	16.7	15.1	64.9	<20
21-03-2023	76.7	35.1	18.6	16.5	67.3	<20
27-03-2023	72.4	33.5	16.1	15.2	62.5	<20
28-03-2023	70.3	32.1	13.9	14.5	59.7	<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	DS-APM-250 S.No I12-DTA-2019	01-10-2022	30-09-2023

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Ref: SVELC/CIL/23-03/02

03-04-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-03-2023	73.6	31.4	15.6	14.1	63.5	31.4
06-03-2023	75.2	35.6	17.1	16.5	66.7	32.1
07-03-2023	72.4	34.1	16.5	15.2	64.6	33.2
13-03-2023	75.1	34.6	19.5	16.4	65.1	31.4
14-03-2023	72.9	32.4	16.1	15.3	62.7	30.5
20-03-2023	74.6	33.7	17.1	16.5	65.9	31.4
21-03-2023	76.1	34.6	15.4	15.4	62.8	33.5
27-03-2023	73.5	31.9	17.8	16.1	60.4	31.8
28-03-2023	76.9	34.4	14.7	15.3	63.5	33.4
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/23-03/03

03-04-2023

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 <sub>10</sub> ) $\mu\text{g}/\text{m}^3$	Particulate matter (PM <sub>2.5</sub> ) $\mu\text{g}/\text{m}^3$	Sulphur dioxide SO <sub>2</sub> $\mu\text{g}/\text{m}^3$	Oxides of nitrogen NO <sub>x</sub> $\mu\text{g}/\text{m}^3$	Carbon monoxide CO $\mu\text{g}/\text{m}^3$	Ammonia (NH <sub>3</sub> ) $\mu\text{g}/\text{m}^3$
01-03-2023	70.5	31.5	14.3	12.4	57.2	23.7
06-03-2023	73.6	32.7	15.7	14.2	61.7	26.3
07-03-2023	71.1	31.0	12.5	13.4	58.9	22.4
13-03-2023	69.3	28.9	14.2	15.1	65.7	26.1
14-03-2023	72.6	31.7	15.6	13.4	61.8	28.9
20-03-2023	75.4	32.9	16.1	14.8	62.7	31.6
21-03-2023	78.4	33.4	17.4	16.1	66.5	32.9
27-03-2023	72.8	31.6	15.4	14.4	69.2	34.2
28-03-2023	70.4	30.1	14.8	13.2	66.4	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 114-DTA-2019	01-10-2022	30-09-2023

  
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Ref: SVELC/CIL/23-03/11

03-04-2023

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 : 10-03-2023 @ 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	<sup>0</sup> C	33
4.	Stack temperature	<sup>0</sup> C	87
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	56.1	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	< 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/23-03/12

03-04-2023

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 : 11-03-2023 @ 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	<sup>0</sup> C	30
4.	Stack temperature	<sup>0</sup> C	92
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	51.2	115	IS:11255-P-1
2..	Total Fluoride	mg/Nm <sup>3</sup>	<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/23-03/13

03-04-2023

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 : 11-03-2023 @ 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	<sup>0</sup> C	31
4.	Stack temperature	<sup>0</sup> C	89
5.	Duration of Sampling	minutes	30

## EMISSION RATE

S.No.	PARAMETER	UNIT	RESULT	STANDARD	METHOD
1.	Particulate Matter – PM	mg/Nm <sup>3</sup>	53.9	115	IS:11255-P-1
2.	Total Fluoride	mg/Nm <sup>3</sup>	< 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/23-03/14

03-04-2023

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

SAMPLE PARTICULARS : NOISE LEVELS

DATE OF COLLECTION : 10-03-2023 to 15-03-2023

## TEST REPORT

S.No.	SOURCE OF COLLECTION	Noise levels measured in dB(A)		METHOD
		Day	Night	
1.	Near North Gate	68.1	56.8	IS:4954 – 1968 Noise Level Meter
2.	Near East Gate	70.6	57.3	
3.	Near South Gate	69.2	58.9	
4.	Near South West Corner	68.6	54.7	
5.	Near North West Corner	65.6	56.2	
6.	Near East Side of Bagging Plant	72.3	68.5	
7.	Back Side of Technical Building	67.8	60.7	
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	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/23-03/19

03-04-2023

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 : 13-03-2023@ 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	186
5.	Velocity	m/s	6.98
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 <sup>3</sup>	BDL	115	IS:11255 and EPA
2.	Sulphur Dioxide – SO <sub>2</sub>	mg/Nm <sup>3</sup>	BDL	-	
3.	Oxides of Nitrogen – NO <sub>x</sub>	mg/Nm <sup>3</sup>	36.5	-	
4.	Carbon Dioxide – CO <sub>2</sub>	%	1.93	-	
5.	Carbon Monoxide – CO	ppm	1.59	-	
6.	Oxygen – O <sub>2</sub>	%	2.34	-	
7.	Total Fluoride	mg/Nm <sup>3</sup>	<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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