Ref: MgIAL/Operations/Env/2024-25/3825

23rd September 2024

To,

Member Secretary,
Karnataka State Pollution Control Board
"Parisara Bhavana", No #49, Church Street,
Bengaluru - 560001

Sir,

Sub: Submission of Environment Statement (Form V) for "Mangaluru International Airport Limited" for the period April-2023 to March 2024.

Ref.: Consent For Operation date: 18th March 2022.

With reference to the above subject and reference, we are hereby submitting Environment Statement (Form V) for "Mangaluru International Airport Limited" for the period April-2023 to March 2024.

Kindly consider the above submission and acknowledge.

Thanking you,
For **Mangaluru International Airport Limited.**

Vijaya Mohan K,
Head-QEHS

RECEIVED
Regional Office
Karnataka State Pollution Control Board
Plot No.10-'B', Baikampady Industrial Area
Mangalore-575011

Encl: As above

Copy to:

1. Environment Officer, Regional Officer Karnataka State Pollution Control Board Plot No.10 B. Baikamapady Industrial Area, Mangalore-575011

o/c

Mangaluru International Airport Limited
(Formerly known as Adani Mangaluru International Airport Ltd)
Bajpe Main Road,
Kenjar, PO: Bajpe,
Mangaluru 574 142,
Karnataka, India
CIN: U63030GJ2019PLC110062

Tel +91 824 295 5222
Fax +91 824 295 5222
adaniairports@adani.com
www.adani.com

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited

FORM V
(See Rule 14)

Environmental Statement for the period from 1st April 2023 to 31st March 2024

PART – A

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	:	Mr. Mukesh Nankani Chief Airport Officer Mangaluru International Airport Limited, Bajpe Main Rd, Kenjar P.O, Mangaluru, Karnataka. Pin-574142, India.
(ii)	Industry Category Primary (STC Code) Secondary (STC Code)	:	Red-Large NA NA
(iii)	Production Capacity		No production as Airport is Service industry.
(iv)	Year of Establishment	:	Commercial Date of Operation (COD): 31st October 2020
(v)	Date of last Environment Statement submitted	:	30th September 2023

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited

PART – B

Water and Raw Material Consumption

(i) Water Consumption (in m3/day)

Water Consumption	294.4 KL/day
Process	Nil
Domestic & cooling	294.4 KL/Day

Details of Water Consumption for the period of April 2023 to March 2024 is enclosed as **Annexure – 1**.

Details	Process water consumption per unit of products	
	During the previous financial year (2022-23)	During the current financial year (2023-2024)
Not applicable	Not applicable	Not applicable

Mangaluru International Airport Limited (MGIAL), is an Airport Service Industry and does not carry out any manufacturing or production. The water is mainly consumed for domestic purposes and horticulture etc.

(ii) Raw Material Consumption

Name of Raw Material	Name of Products	Consumption of Raw Material per Unit of output	
		During the previous financial year (2022-23)	During the current financial year (2023-2024)
Not applicable	Not applicable	Not applicable	Not applicable

Mangaluru International Airport Limited is an Airport Service Industry and does not undergo any manufacturing or production.

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited

PART – C

Pollutants discharged to Environment/Unit of Output
(Parameters as specified in consent issued)

Pollutants	Quantity of pollutants discharged (mass/day)		Concentrations of pollutants in discharges (mass/volume)		Percentage of variation from prescribed standards with reasons
(a) Wastewater	**Parameters**	**Avg. Mass Kg/Day**	**Parameters**	**Avg.**	There is no variation from prescribed standards in terms of quality of wastewater discharge. As a part of the Environment Monitoring programme, monthly STP monitoring is being carried out. The analysis of the STP Monitoring report is attached as **Annexure-2**. Wastewater generated is being treated in STP. Treated water during April 2023 to March 2024 was utilized for horticulture / landscaping purpose within premises.
	pH	-	pH	7.07	
	Total Suspended Solids	0.82	Total Suspended Solids (mg/l)	15.3	
	BOD (5 Days @ 20 °C)	0.40	BOD (5 Days @ 20°C) (mg/l)	7.62	
	Total Nitrogen	0.29	Total Nitrogen (mg/l)	5.62	
	COD	1.63	COD (mg/l)	30.75	
(b) Air	**Parameters**	**Avg. Mass Kg/Day**	**Parameters**	**Avg.**	As a part of the Environment Monitoring programme, DG set flue gas monitoring is being carried out half-yearly. The Analysis of the D.G Set Stack Monitoring report is attached as **Annexure-3**.
	Particulate Matter (PM)	-	Particulate Matter (mg/Nm3)	16.34	
	Sulphur Dioxide (SO_2)	-	Sulphur Dioxide (PPM)	10.91	
	Nitrogen Oxide (NO_x)	-	Nitrogen Oxide (NO_x) (PPM)	334.24	

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited

PART – D

Hazardous Wastes
(As specified under Hazardous & Other waste Wastes Management 2016)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year (2022-23)	During the current financial year (2023-2024)
(a) From Process	Not applicable. Mangaluru International Airport Limited (MGIAL) being an Airport Operator does not have any manufacturing or production. So, there is no hazardous waste generation from process.	Not applicable. Mangaluru International Airport Limited (MGIAL) being an Airport Operator does not have any manufacturing or production. So, there is no hazardous waste generation from process.
(b) From Pollution Control facilities	Used Oil (Cat 5.1)-1.27 KL Used Oil is generated as hazardous waste from DG set operation is disposed to SPCB authorized reprocessor.	Used Oil (Cat 5.1)-1.27 KL Cat 33.1- 0.16 MT Used Oil is generated as hazardous waste from DG set operation is disposed to SPCB authorized reprocessor.

PART – E
Solid Waste

Solid Waste	Total Quantity (Kg)		
	During the previous financial year (2022-2023)	During the current financial year (2023-2024)	Disposal Method
(a) From Process	NA		
(b) From Pollution Control facilities			
Dry Waste Organic Waste	26.545 MT	34.58 MT	As per Solid waste management Rules, 2016
E-Waste	0	0.373 MT	Asper E Waste Rules, 2016.
Battery Waste	0.880 MT	1.277 MT	As per Battery Waste Rules, 2016.

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited

PART - F

Please specify the characterization (in terms of Composition and quantum) of Hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes:

As a part of Mangaluru international Airport Limited operation, an effective Solid Waste Management plan has been implemented at site, which includes:

- Collection & Segregation of waste from the source
- Provided separate waste bins (for dry & wet waste) at all the locations including Airside, Landside & Terminals.
- Well demarcated four waste collection points were established, where the segregated waste is collected, shifted to a Waste management facility.
- All the inorganic waste after proper segregation is being given to the recognized agency Ms. MS Scrap Enterprises for further handling.
- Organic waste generated is treated in organic waste converter (500KG Capacity). The compost generated from OWC is used for horticulture purpose at MIAL premises.
- Hazardous Waste at Mangaluru International Airport Limited is managed in line to the Hazardous Waste Management Rules 2016.
- Battery Waste, generated are managed inline to the Battery Waste Management Rules 2010, amended till date
- E-Waste, generated are being managed inline to the E-Waste Management Rules 2016, amended till date
- Solid waste generated is handled in line to 5R of waste management to attain zero waste to land fill.

Waste Management Facility

Dry waste segregation facility

Dry waste segregation

Organic Waste

PART – G

Impact of the pollution abatement measures taken on conservation of natural resources and on the cost of production.

Energy Savings

Street LED Lights

LED Lights in Offices & Terminal

- All the conventional lights have been replaced by LED lights and there is no more use of conventional lights.
- Proactively controlled lighting systems are provided. The landside streetlights are made operational on timer basis according to the daylights.
- Sensitization of the team & continuous follow up is done for further improvising the Airport environmental & sustainability aspects.
- Timely maintenance of AHU's filters & coil, chillers, cooling towers is being carried out at MIAL. Regular monitoring is being carried out for the same.

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited

Water Conservation:

- As part of water conservation approximately 100% sensor-based water taps have been installed in all the washrooms of the Terminal building at MIAL.
- Rainwater collection tank of capacity 5000 m^3 is constructed to collect rainwater.
- 100% Treated Water from the STP is utilized for gardening & horticulture purposes.
- Drip irrigation system is adopted at avenue plantation.

Wastewater Management:

- 150 KLD of Sewage Treatment Plant (STP) is operational at MIAL
- Sewage Treatment Plant (STP) (MBR) is installed at site for treating and handling the domestic sewage generated from airport premises. STP treated water is Monitored by MoEF&CC & NABL accredited laboratory, and all the results are observed to be within Stipulated Standards.
- The treated wastewater generated from the STP is utilized for gardening and horticulture activity within MIAL premises to conserve freshwater consumption.

Air Management:

- Adequate green cover of about 6.01 Acres has been developed.
- Ambient Air Quality Monitoring is carried out by engaging MoEF&CC & NABL accredited laboratory, and all the results are observed to be within Stipulated Standards.
- Installed 1 no. Online Continuous Ambient Air Quality Monitoring system within premises.
- Regular road cleaning both inside and outside of airport using road cleaning machines.
- Environment Monitoring for D.G Stack Flue Gas Emissions will be carried out by MoEF&CC and NABL accredited laboratory.

Soil Management:

Environment Monitoring for Soil Analysis is being carried out by MoEF&CC and NABL accredited laboratory and all the results are under the norms inline to stipulated standards.

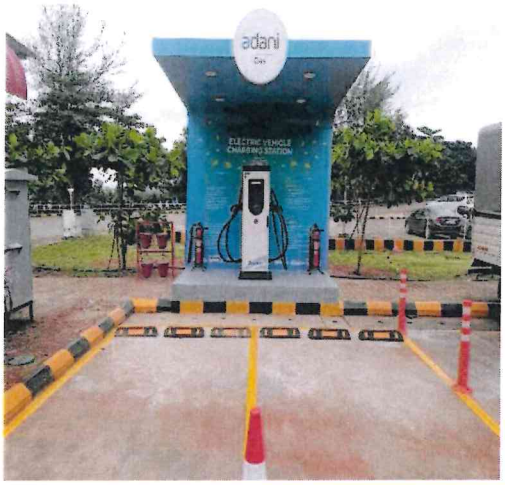
PART – H

Additional measures /investment/ proposal for environmental protection including abatement of pollution, prevention of pollution.

Carbon Neutrality Initiatives:

- Transition of conventional vehicles to Ev vehicle and addition of new Ev vehicles, now the strength of Ev vehicle reached to 15 in numbers.
- Installed 2 no. of EV charging stations at city side carparking.
- Use of lower Global Warming Potential ABC type fire extinguisher and currently only 90 CO2 based fire extinguishers which will be replaced/phased out in periodic manner.
- Converted all remaining R22 AC refrigerant with R32 -lower Global Warming Potential refrigerant.
- 100% compliance and implementation of LED lights at the airport and buildings.

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited



Electric vehicle charging station

Electric vehicles for Airport Operation

PART – I

Any other particulars for improving the quality of environment:

- MGIAL Expenditure for environmental management measures for FY 2023-24 of about **INR 334.3 Lakhs** was spent. Details are mentioned below.

S. No.	Activity	Cost Incurred (2023-24) in Lakhs
1	Env Manpower	12.00
2	Legal and Statutory Expenses	11.00
3	Environmental Monitoring Services	10.50
4	Waste Management and Disposal	6.0
5	O & M of Sewage Treatment Plant	8.0
6	Awareness Programs	1.0
7	Horticulture Expenses	154.23
8	Carbon Neutrality Initiatives	131.57
Total		**334.3**

- Environment awareness sessions via, Quiz Competition, Webinar, Selfie point, Distribution of sapling to passengers on World Environment Day in FY 2023-24.

Date: 23.09.2024

Vijayamohan Kondeti
Head- QEHS
Mangaluru International Airport Limited

Environment Statement for 2023-24
M/s. Mangaluru International Airport Limited

Annexure – 1

Details of Water Consumption for the period April 2023 to March 2024

Month	Water consumption (KL)
Apr-23	10932.4
May-23	10844.4
Jun-23	8445.2
Jul-23	6875.9
Aug-23	6771.7
Sep-23	7932.5
Oct-23	8485.2
Nov-23	8556.4
Dec-23	12406.3
Jan-24	8918.5
Feb-24	8725.6
Mar-24	8550.3
Total	**107444.5**
	294.4 KL/Day

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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ISSUED TO:

M/S. MANGALURU INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD,
KENJAR HC,
KARNATAKA - 574142.

Report Number	:	VLL/VLS/23/0439/006
Issued Date	:	2023.05.04
P. Order Ref	:	5700315733
P.O. Date	:	04.10.2022

SAMPLE PARTICULARS	:	**STP WATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**April 2023**
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	12.04.2023
Analysis Start Date	:	14.04.2023
Analysis Completion Date	:	27.04.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	6.79	7.07	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	58.8	14.2	20
3	Total Nitrogen	APHA 4500-B	mg/L	30.6	4.8	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	176	24	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	48	6.3	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	37.9	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	913	53	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Dy. Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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KARNATAKA - 574142.

Report Number : VLL/VLS/23/03067/006
Issued Date : 2023.06.07
P. Order Ref : 5700315733
P.O. Date : 04.10.2022

SAMPLE PARTICULARS : **STP WATER**

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : **May 2023**
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On : 11.05.2023
nalysis Start Date : 13.05.2023
Analysis Completion Date : 25.05.2023
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.24	6.92	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	63.2	12.8	20
3	Total Nitrogen	APHA 4500-B	mg/L	26.4	5.7	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	210	20	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	55	7.1	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	33.8	<1.0	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	833	41	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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KARNATAKA - 574142.

Report Number : VLL/VLS/23/04661/006
Issued Date : 2023.06.23
P. Order Ref : 5700315733
P.O. Date : 04.10.2022

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**June 2023**
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	12.06.2023
Analysis Start Date	:	14.06.2023
Analysis Completion Date	:	21.06.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.39	6.70	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	78.5	15.1	20
3	Total Nitrogen	APHA 4500-B	mg/L	28.7	6.3	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	350	30	50
5	Biological Oxygen Demand at 27°C. 3 days	IS:3025 P-44	mg/L	92	8.4	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	24.6	<1.0	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	783	36	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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KARNATAKA - 574142.

Report Number	:	VLL/VLS/23/06386/006
Issued Date	:	2023.08.07
P. Order Ref	:	5700315733
P.O. Date	:	04.10.2022

SAMPLE PARTICULARS : **STP WATER**

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**July 2023**
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	11.07.2023
Analysis Start Date	:	12.07.2023
Analysis Completion Date	:	22.07.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	6.89	7.24	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	80	17.3	20
3	Total Nitrogen	APHA 4500-B	mg/L	23.9	4.5	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	320	27	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	83	7	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	18.7	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	724	42	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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M/S. MANGALURU INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD,
KENJAR HC,
KARNATAKA - 574142.

Report Number	:	VLL/VLS/23/08272/006
Issued Date	:	2023.09.05
P. Order Ref	:	5700315733
P.O. Date	:	04.10.2022

SAMPLE PARTICULARS	:	**STP WATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**August 2023**
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	08.08.2023
Analysis Start Date	:	10.08.2023
Analysis Completion Date	:	21.08.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.14	6.91	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	91	15.5	20
3	Total Nitrogen	APHA 4500-B	mg/L	27.5	5.7	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	260	32	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	83	8	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	23.5	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	853	46	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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BAJPE MAIN RD,
KENJAR HC,
KARNATAKA - 574142.

Report Number	:	VLL/VLS/23/10162/006
Issued Date	:	2023.10.06
P. Order Ref	:	5700315733
P.O. Date	:	04.10.2022

SAMPLE PARTICULARS	:	**STP WATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**September 2023**
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	05.09.2023
Analysis Start Date	:	07.09.2023
Analysis Completion Date	:	16.09.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.25	6.94	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	110	13.8	20
3	Total Nitrogen	APHA 4500-B	mg/L	24.3	3.8	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	170	30	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	67	7	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	20.6	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	780	41	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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M/S. MANGALURU INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD,
KENJAR HC,
KARNATAKA - 574142.

Report Number	:	VLL/VLS/23/12113/006
Issued Date	:	2023.11.09
P. Order Ref	:	5700315733
P.O. Date	:	04.10.2022

SAMPLE PARTICULARS	:	**STP WATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**October 2023**
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	10.10.2023
Analysis Start Date	:	12.10.2023
Analysis Completion Date	:	21.10.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.01	6.88	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	94.5	15.5	20
3	Total Nitrogen	APHA 4500-B	mg/L	21.7	4.6	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	280	33	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	79	8	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	17.3	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	825	46	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/23/13848/006
Issued Date : 2023.12.08
P. Order Ref : 5700315733
P.O. Date : 04.10.2022

SAMPLE PARTICULARS : **STP WATER**

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**November 2023**
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	07.11.2023
Analysis Start Date	:	09.11.2023
Analysis Completion Date	:	18.11.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.20	7.27	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	104.3	18	20
3	Total Nitrogen	APHA 4500-B	mg/L	24.1	5.8	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	320	30	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	88	7.4	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	20.7	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	970	37	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/23/15756/006
Issued Date	:	2024.01.08
P. Order Ref	:	5700335314
P.O. Date	:	09.12.2023

SAMPLE PARTICULARS	:	**STP WATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**December 2023**
Test Required	:	pH; Total Suspended Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Ammonical Nitrogen and Fecal Coliform.
Sample Collected On	:	05.12.2023
Analysis Start Date	:	06.12.2023
Analysis Completion Date	:	18.12.2023
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.21	7.04	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	121.1	15.3	20
3	Total Nitrogen	APHA 4500-B	mg/L	29.4	7.1	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	298	36	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	84	8.5	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	25.3	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	895	43	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/23/17774/006
Issued Date : 2024.02.08
P. Order Ref : 5700335314
P.O. Date : 09.12.2023

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**January 2024**
Test Required	:	pH; Total Suspended Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Ammonical Nitrogen and Fecal Coliform.
Sample Collected On	:	03.01.2024
Analysis Start Date	:	04.01.2024
Analysis Completion Date	:	11.01.2024
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.23	7.28	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	132.4	17.2	20
3	Total Nitrogen	APHA 4500-B	mg/L	33.3	8.1	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	312	33	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	95	7.7	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	21.4	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	905	57	<100

GPS – STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/23/20566/006
Issued Date : 2024.03.09
P. Order Ref : 5700335314
P.O. Date : 09.12.2023

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**February 2024**
Test Required	:	pH; Total Suspended Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand;Ammonical Nitrogenand Fecal Coliform.
Sample Collected On	:	08.02.2024
Analysis Start Date	:	10.02.2024
Analysis Completion Date	:	20.02.2024
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.45	7.61	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	104.4	15.7	20
3	Total Nitrogen	APHA 4500-B	mg/L	29.6	6.2	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	360	40	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	105	8.4	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	25.2	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	869	62	<100

GPS – STP Inlet water :12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water :12° 57'01.682"N, 74°52'14.651"E

Dr. SubbaReddyMallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL VLS/23/22604/006
Issued Date : 2024.04.04
P. Order Ref : 5700335314
P.O. Date : 09.12.2023

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling : One Grab sample in a Month
Month of Sampling : **March 2024**
Test Required : pH: Total Suspended Solids: Total Nitrogen: Chemical Oxygen Demand: Biological Oxygen Demand:Ammonical Nitrogenand Fecal Coliform.
Sample Collected On : 04.03.2024
Analysis Start Date : 06.03.2024
Analysis Completion Date : 16.03.2024
Sample collected by Vimta Labs Ltd.,

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.34	7.02	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	127.4	13.6	20
3	Total Nitrogen	APHA 4500-B	mg/L	33.4	4.8	10
4	Chemical Oxygen Demand	APHA 5220B	mg/L	330	34	50
5	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	95	7.6	10
.6	Ammonical Nitrogen	APHA 4500-F	mg/L	28.6	<0.1	5
7	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	770	55	<100

GPS – STP Inlet water :12° 57'02.147"N, 74°52'15.003"E
STP Outlet Water :12° 57'01.682"N, 74°52'14.651"E

Dr. SubbaReddyMallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/23/08272/010
Issued Date : 2023.09.06
P. Order Ref : 5700315733
P. Order Date : 04.10.2022

SAMPLE PARTICULARS : **DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED : **NITB Building**

Sampling Date : 2023.08.28
Frequency of Monitoring : Half Yearly
Monitoring Month : August 2023
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	* Limits
Physical Parameters								
1	Capacity	KVA	-	750	750	750	40	--
2	Stack diameter	m	-	0.3	0.3	0.3	0.1	--
3	Area of the Stack	m^2	-	0.071	0.071	0.071	0.008	--
4	Flue gas Temperature	^0C	USEPA M-2	127	121	125	119	--
5	Velocity of the Flue gas	m/Sec		10.8	10.3	10.6	9.3	--
6	Volumetric Flow rate	Nm^3/hr		2617	2496	2568	250	--
Chemical Parameters								
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	12.3	13.7	11.4	7.7	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		299.04	257.11	281.31	263.82	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.043	0.856	0.963	1.651	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		581.69	597.47	652.64	328.35	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.030	1.988	2.235	2.055	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		1.50	2.23	2.66	2.52	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.005	0.007	0.009	0.016	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	20.11	21.92	23.57	13.59	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.070	0.073	0.081	0.085	

***Limits as per CPCB DG Emission Notification GSR 771(E)**

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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ISSUED TO:
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Report Number : VLL/VLS/23/08272/011
Issued Date : 2023.09.06
P. Order Ref : 5700315733
P. Order Date : 04.10.2022

SAMPLE PARTICULARS : **DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED : **OLD AIRPORT TERMINAL**

Sampling Date : 2023.08.30
Frequency of Monitoring : Half Yearly
Monitoring Month : August 2023
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	* Limits
Physical Parameter							
1	Capacity	KVA	-	500	250	30	--
2	Stack diameter	m	-	0.3	0.3	0.1	--
3	Area of the Stack	m^2	-	0.071	0.071	0.008	--
4	Flue gas Temperature	^0C	USEPA M-2	120	116	122	--
5	Velocity of the Flue gas	m/Sec		10.5	11.1	7.5	--
6	Volumetric Flow rate	Nm^3/hr		2544	2690	202	--
Chemical Parameters							
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	18.3	17.2	7.7	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		208.46	108.23	73.28	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.061	1.164	0.493	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		368.41	283.26	89.52	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.875	3.047	0.603	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		2.61	2.14	1.16	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.013	0.023	0.008	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	16.12	8.36	5.92	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.082	0.090	0.040	

***Limits as per CPCB DG Emission Notification GSR 771(E)**

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/23/08272/012
Issued Date	:	2023.09.06
P. Order Ref	:	5700315733
P. Order Date	:	04.10.2022

SAMPLE PARTICULARS : **DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED : **NATS BUILDING**

Sampling Date	:	2023.08.30
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	August 2023

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	750	750	--
2	Stack diameter	m	-	0.3	0.3	--
3	Area of the Stack	m^2	-	0.071	0.071	--
4	Flue gas Temperature	^0C	USEPA M-2	114	107	--
5	Velocity of the Flue gas	m/Sec		11.5	11.8	--
6	Volumetric Flow rate	Nm^3/hr		2787	2859	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	14.3	15.2	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		299.04	257.11	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.043	0.856	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		581.69	597.47	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.030	1.988	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		1.50	2.23	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.005	0.007	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	20.11	21.92	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.070	0.073	

***Limits as per CPCB DG Emission Notification GSR 771(E)**

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number	:	VLL/VLS/23/08272/013
Issued Date	:	2023.09.06
P. Order Ref	:	5700315733
P. Order Date	:	04.10.2022

SAMPLE PARTICULARS : **DIESEL GENERATOR EMISSION MONITORING**
PLACE OF DG SET INSTALLED : **ASR MSSR Area**

Sampling Date	:	2023.08.29
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	August 2023

Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	125	125	--
2	Stack diameter	m	-	0.3	0.3	--
3	Area of the Stack	m^2	-	0.071	0.071	--
4	Flue gas Temperature	^0C	USEPA M-2	122	118	--
5	Velocity of the Flue gas	m/Sec		9.7	10.4	--
6	Volumetric Flow rate	Nm^3/hr		261	280	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	10.9	12.6	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		518.01	494.95	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.082	1.109	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		137.03	265.65	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		0.286	0.595	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		2.57	2.50	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.005	0.006	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	21.44	21.93	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.045	0.049	

***Limits as per CPCB DG Emission Notification GSR 771(E)**

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142 IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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Report Number : VLL/VLS/23 22604 020
Issued Date : 2024.04.04
P. Order Ref : 5700335314
P. Order Date : 09.12.2023

SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : NITB Building

Sampling Date : 2024.03.14
Frequency of Monitoring : Half Yearly
Monitoring Month : March 2024
Sample Collected by Vimta Labs Ltd

TEST REPORT

Sr. No.	PARAMETERS	Unit of Measurement	METHOD OF TESTING	DG1	DG2	DG3	DG4	* Limits
Physical Parameters								
1	Capacity	KVA	-	750	750	750	40	--
2	Stack diameter	m	-	0.3	0.3	0.3	0.1	--
3	Area of the Stack	m^2	-	0.071	0.071	0.071	0.008	--
4	Flue gas Temperature	°C	USEPA M-2	118	125	121	127	--
5	Velocity of the Flue gas	m/Sec		9.9	10.7	11.4	10.7	--
6	Volumetric Flow rate	Nm^3/hr		2399	2593	2762	288	--
Chemical Parameters								
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	10.0	7.7	9.4	8.3	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		158.4	185.8	155.7	115.4	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.507	0.642	0.574	0.831	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		363.4	358.7	375.7	163.3	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.163	1.240	1.384	1.176	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm^3		0.57	1.44	1.08	0.80	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.002	0.005	0.004	0.006	
12	Particulate Matter@15% O2	mg/ Nm^3	USEPA M-5	19.16	18.47	20.22	12.63	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.061	0.064	0.074	0.091	

*Limits as per CPCB DG Emission Notification GSR 771(E)

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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KARNATAKA 574142.

Report Number : VLL/VLS/23.22604.021
Issued Date : 2024.04.04
P. Order Ref : 5700335314
P. Order Date : 09.12.2023

SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : OLD AIRPORT TERMINAL
Sampling Date : 2024.03.15
Frequency of Monitoring : Half Yearly
Monitoring Month : March 2024
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	Unit of Measurement	METHOD OF TESTING	DG1	DG2	DG3	* Limits
Physical Parameter							
1	Capacity	KVA	-	500	250	30	--
2	Stack diameter	m	-	0.3	0.3	0.1	--
3	Area of the Stack	m^2	-	0.071	0.071	0.008	--
4	Flue gas Temperature	^0C	USEPA M-2	118	122	117	--
5	Velocity of the Flue gas	m/Sec		11.4	10.6	8.2	--
6	Volumetric Flow rate	Nm^3/hr		2762	2568	221	--
Chemical Parameters							
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	10.6	8.3	6.6	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		146.6	94.4	83.4	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.810	0.971	0.614	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		249.5	195.6	130.4	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.379	2.010	0.960	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		1.14	0.92	0.89	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.006	0.009	0.007	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	13.56	10.63	6.03	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.075	0.109	0.044	

*Limits as per CPCB DG Emission Notification GSR 771(E)

Dr. Subba Reddy Mallampati
Manager-Environment

Vimta Labs Limited
Registered Office
142 IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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ISSUED TO:
M/S. MANGALURU INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD, KENJAR HC,
KARNATAKA 574142.

Report Number : VLL VLS 23 22604 022
Issued Date : 2024.04.04
P. Order Ref : 5700335314
P. Order Date : 09.12.2023

SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : NATS BUILDING

Sampling Date : 2024.03.14
Frequency of Monitoring : Half Yearly
Monitoring Month : March 2024
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	Unit of Measurement	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	750	750	--
2	Stack diameter	m	-	0.3	0.3	--
3	Area of the Stack	m^2	-	0.071	0.071	--
4	Flue gas Temperature	°C	USEPA M-2	117	114	--
5	Velocity of the Flue gas	m/Sec		10.6	9.7	--
6	Volumetric Flow rate	Nm^3/hr		2568	2350	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	9.7	11.7	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		202.09	175.93	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.692	0.551	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		363.48	316.77	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.245	0.993	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		1.25	1.07	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.004	0.003	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	17.09	17.98	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.059	0.056	

*Limits as per CPCB DG Emission Notification GSR 771(E)

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Vimta Labs Limited
Registered Office
142 IDA Phase II, Cherlapally
Hyderabad-500 051, Telangana, India
T : +91 40 2726 4141
F : +91 40 2726 3657

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ISSUED TO:
M/S.MANGALURU INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD, KENJAR HC,
KARNATAKA 574142.

Report Number : VLL VLS/23/22604/023
Issued Date : 2024.04.04
P. Order Ref : 5700335314
P. Order Date : 09.12.2023

SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED : ASR MSSR Area

Sampling Date : 2024.03.15
Frequency of Monitoring : Half Yearly
Monitoring Month : March 2024
Sample Collected by Vimta Labs Ltd.

TEST REPORT

Sr. No.	PARAMETERS	Unit of Measurement	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	125	125	--
2	Stack diameter	m	-	0.3	0.3	--
3	Area of the Stack	m^2	-	0.071	0.071	--
4	Flue gas Temperature	^0C	USEPA M-2	119	124	--
5	Velocity of the Flue gas	m/Sec		10.5	9.7	--
6	Volumetric Flow rate	Nm^3/hr		283	261	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	7.1	9.4	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		165.94	190.93	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.375	0.399	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		160.67	192.51	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		0.363	0.402	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		0.88	0.98	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.002	0.002	
12	Particulate Matter@ 15% O2	mg/Nm^3	USEPA M-5	13.66	15.14	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.031	0.032	

*Limits as per CPCB DG Emission Notification GSR 771(E)

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