adani

Ref. No.: MIAL/CAO/Environment/2022/1397A **Date: 29th Sept 2022**

To
Member Secretary,
Karnataka State Pollution Control Board,
"Parisara" Bhavan", No #49 , Church street
Bengaluru 560001

Sub.: Environmental Statement for the financial year ending 31st March 2022 for "Mangaluru International Airport" Mangaluru, **by M/s Mangaluru International Airport Limited (MIAL).**

Ref.: CfO dtd. 18th March2022

Dear Sir,

With reference to the above mentioned subject and reference, please find enclosed Environmental Statement in Form V prescribed under Rule 14 of the Environment (Protection) Rules 1986, for Mangaluru International Airport, Mangaluru for the financial year ending 31st March 2022 for the period of April 2021-March 2022

Kindly consider above submission and acknowledge.

Thank you,

Yours Sincerely,
For, M/s Mangaluru International Airport Limited

Mr. Nirav Shah
Chief Airport Officer

Encl: As above.
Copy to: Environment Officer, Regional officer Karantaka State
Plot No:10. Baikamapady Industrial Area, Mangaluru -575001

Mangaluru International Airport Limited
(Formerly Adani Mangaluru International Airport Limited)
Adani Corporate House, Shantigram, S G Highway,
Ahmedabad – 382421, Gujarat, India
CIN: U63030GJ2019PLC110062

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info@adani.com
www.adani.com

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

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FORM V
(See Rule 14)

Environmental Statement for the period from 1st April 2021 to 31st March 2022

PART – A

(i)	Name and address of the Owner/ Occupier of the Industry Operation or Process	:	Nirav Shah Chief Airport Officer Mangaluru International Airport Ltd. Bajpe Main Road, Kenjar P.O. Mangaluru -574 142 Email-ID- Vijayamohan.kondeti@adani.com Contact: +91 6359922181
(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	:	29th September 2021

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

PART – B

Water and Raw Material Consumption

(i) Water Consumption*

Water Consumption Cu. Mtr./Day	167 m^3/ day
Process	Nil
Domestic & cooling	167 m^3/ day

*Details of Water Consumption for the period of April 2021-Mar22 is enclosed as **Annexure – 1**.

Details	**Process water consumption per unit of products**	
	During the Financial Year 20-21	**During the current Financial Year 21-22**
Process Water Consumption	**Nil**	**Nil**

*Mangaluru International Airport is an Airport Service Industry and does not carry out any manufacturing process. The water consumed was mainly in Domestic Purpose & Horticulture etc.

(i) Raw Material Consumption

Name of Raw Material	**Name of Products**	**Consumption of Raw Material per Unit of output**	
		During the Financial Year 20-21	**During the current Financial Year 21-22**
Not applicable	Not applicable	Not applicable	Not applicable

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

*The water consumed was mainly in Domestic Purpose & Horticulture etc.

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

ART – 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		Percentage of variation from prescribed standards with reasons
(a) Waste Water	**Parameters**	**Avg. Mass Kg/Day**	**Parameters**	**Avg.**	1. There is no variation from prescribed standards in terms of quality of wastewater discharge. 2. Wastewater generated is being treated in STP 3. Treated water during the period 11th Oct 2021 (COD) – March 2022. was utilized for horticulture / greenbelt purpose. 1. Analysis reports of treated water are enclosed as ***Annexure – 2***
	pH	--	pH	7.52	
	Total Suspended Solids	0.94	Total Suspended Solids (mg/l)	28.66	
	BOD (5 Days @ 20 °C)	0.31	BOD (5 Days @ 20°C) (mg/l)	9.65	
	Oil & Grease	<1.0	Oil & Grease (mg/l)	<1.0	
	COD	1.21	COD (mg/l)	37.08	
(b) Air	**Parameters**	**Avg. Mass Kg/Day**	**Parameters**	**Avg.**	2. DG Sets are provided as standby power sources and used during power failure. 3. The Height of DG Stacks as per CPCB/GPCB Standards. All the Monitored parameters are within Standards. 4. Particulate matters value within the prescribed limits stipulated by concerned regulatory authorities. 5. As a part of Environment Monitoring program, DG set flue gas monitoring is being carried out half yearly. 6. The Analysis of the D.G Set Stack Monitoring has been done in the month of February 2022. DG Sets Stack Emission Results is enclosed as ***Annexure-3*** 7. There is no variation from prescribed standards in terms of Air quality.
	Particulate Matter (PM)	--	Particulate Matter (mg/Nm3)	--	
	Sulphur Dioxide (SO_2)	--	Sulphur Dioxide (PPM)	--	
	Nitrogen Oxide (NO_x)	--	Nitrogen Oxide (NO_x) (PPM)	--	

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

- Mangaluru International Airport is an Airport Service Industry and does not undergo any manufacturing or production. There is no effluent generation & disposal.
- The sewage water was treated in the 150KLD Sewage treatment plant (STP) with FAB technology and treated water confirming to prescribed standards reused in gardening and plantation activities.

PART – D

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2020-21)	During the current financial year (2021-22)
(a) From Process	NA	Mangaluru International Airport is an Airport Service Industry and does not undergo any manufacturing or production. There is no process hazardous waste generation & disposal. During DG Set and equipment maintenance hazardous waste generated as mentioned below: - 1. Cat. 5.1- Used /Spent Oil - NIL** 2. Cat. I-33.1- Empty barrels- NIL** 3. Cat I-33.2 Contaminated cotton rags or other cleaning materials-NIL**
(b) From Pollution Control facilities	Not applicable	Not applicable

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

PART – E
Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum) FY 2020-21	Total Quantity Generated (MT/Annum) FY 2021-22
(a) From Process	Nil	Refer Annexure-4
(b) From Pollution Control facilities	Not applicable	Not applicable

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 MIAL operation, an effective Solid Waste Management plan has been implemented at site, which includes:
  - ✓ Collection & Segregation of waste from the source,
  - ✓ Providing separate waste bins (for dry & wet waste) at all the locations including Airside , Landside & within the Terminals
  - ✓ Recycling of major portion of solid waste generated at site is being practiced
  - ✓ All the waste after proper segregation is being sent to the recognized agency- for further handling.
  - ✓ Hazardous Waste, generated at MIAL are being managed inline to the Hazardous Waste Management Rules 2016, amended till date.
  - ✓ Battery Waste, generated at MIAL are managed inline to the Battery Waste Management Rules 2010, amended till date.
  - ✓ E-Waste, generated at MIAL are being managed inline to the E-Waste Management Rules 2016, amended till date.

- As part of way forward Mangaluru International Airport Ltd has their future plans for managing it's wastes under 5 R principal and step ahead with a vision of Zero Waste to Landfill.

PART – G

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

- A sewage treatment plant (STP) has been installed for treating and handling the domestic sewage generated from airport premises.
- The treated waste water generated from the STP is utilized for gardening and horticulture activity within MIAL premises to conserve the fresh water consumption.

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

Energy Savings

- The conventional lights and halogen lights have been replaced with LED lights in all the possible locations at MIAL area which has reduced the total energy consumption.
- 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.

Water Conservation:

- Treated Water from the STP is utilized for gardening & horticulture purpose.
- Rain water harvesting is being carried out at MIAL as part of water conservation measure.
- We are refurbishment the existing damage rain water harvesting pond to properly manage & store the rain water as well as same water can be used for ground recharging purpose.
- As part of water conservation MIAL installed the sensor based water taps in all the washrooms of the Terminal building.
- Following safeguard measures are taken for abatement of dust and noise emissions:
  - ✓ Regular cleaning of roads
  - ✓ D.G. Set having acoustic enclosures
  - ✓ Green cover of ~6.01 Ac has been developed.

Air Management:

- Ambient Air Quality Monitoring is being carried out by MoEF&CC & NABL accredited laboratory and all the results are observed to be within Stipulated Standards
- Environment Monitoring for D.G Stack Flue Gas Emissions will be carried out by MoEF&CC and NABL accredited laboratory.
- Planning to install the online monitoring of Air Quality station is
- Green cover of ~6.01 Ac has been developed

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.

- MIAL has developed an adequate Green Belt Area and is properly maintained by the Horticulture Team at the Airport.
- We are coming up with tree plantation at some of the identified location to increase the green belt areas
- Replacement of 151 CO2 type fire extinguishers with a lower Global Warming Potential ABC type fire extinguisher
- 52 R22 refrigerants replaced with lower Global Warming Potential refrigerant

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

PART – I

Any other particulars for improving the quality of environment:

- Monitoring of environmental parameters such as Air, Noise, wastewater and soil quality being done regular basis through MoEF & NABL recognized laboratory.
- MIAL Budget for environmental management measures for the FY 2021-22 of INR 75 lakhs Details are enclosed as **Annexure – 5**

Nirav Shah

Date :

(Signature of a person carrying out an industry, operation or process)

Designation: Chief Airport Officer

Mr. Nirav Shah

Address: **Mangaluru International Airport Ltd.**
Bajpe Main Road, Kenjar ,Bajpe P.O
Mangaluru -574142 , Karnataka

ENVIRONMENT STATEMENT FOR FY 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

ANNEXURE – 1

DETAILS OF WATER CONSUMPTION AND TREATED WATER DISCHARGE
APRIL'21- MARCH'22

Month	Water consumption (KL)
April-2021	5199
May-2021	4588
June-2021	4292
July-2021	5387
August-2021	4971
September -2021	5738
October-2021	5740
November -2021	5880
December-2021	5352
January -2021	4805
February-2021	3976
March-2021	5036
Total Water Consumption	**60964**
Water Consumption per Month	**5080**
Avg. Water Consumption per day	**167**

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

ANNEXURE – 2
SEWAGE WASTEWATER QUALITY (STP) – APRIL -21

Vimta Labs Limited
Registered Office
142, IDA Phase II, Cherlapally
Hyderabad-500 051,Telangana, India
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Vimta
Driven by Quality, Inspired by Science.

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

Report Number : VLL/VLS/21/00423/005
Issue Date : 2021.05.05
P.O. Ref : 5700291870
P.O. Date : 13.10.2020

Sample Name : STP Outlet Water
Sample Collection Date : 02.04.2021
Sample Registration Date : 05.04.2021
Sample Analysis date : 05.04.2021
Analysis Completion Date : 13.04.2021
Sample Collected by Vimta Labs Limited.,

TEST REPORT

Sr.No	Parameters	UoM	Method of Testing	RESULTS	CPCB Standard
1	pH	--	APHA-23rd ed. (4500-H+-B)	7.26	5.5 - 9.0
2	Total Suspended Solids	mg/L	APHA-23rd ed.(2540- D)	39	100
3	Total Dissolved Solids	mg/L	APHA-23rd ed.(2540-C)	467	2100
4	Total Nitrogen	mg/L	APHA-23rd ed. (5520 C) : 2017	3.1	10
5	Chemical Oxygen Demand	mg/L	APHA-23rd ed.(5220-B)	32	250
6	Biological Oxygen Demand at 27°C, 3 days	mg/L	IS:3025 (Part-44):2009	7.3	30
7	Oil and Grease	mg/L	APHA-23rd ed(5520 C)	<1.0	10
8	Ammonical Nitrogen	mg/L	APHA-23rd ed. (4500NH3,B,C) : 2017	<0.1	5

Dr. SubbaReddy Mallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) – MAY'21

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M/s. ADANI MANGALURU
INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD, KENJAR HC,
KARNATAKA 574142

Report Number : VLL/VLS/21/00448/005
Issue Date : 2021.06.05
P.O. Ref : 5700291870
P.O. Date : 13.10.2020

Sample Name : STP Outlet Water
Sample Collection Date : 08.05.2021
Sample Registration Date : 10.05.2021
Sample Analysis date : 10.05.2021
Analysis Completion Date : 19.05.2021
Sample Collected by Vimta Labs Limited.,

TEST REPORT

Sr.No	Parameters	UoM	Method of Testing	RESULTS	CPCB Standard
1	pH	--	APHA-23rd ed. (4500-H+-B)	7.5	5.5 - 9.0
2	Total Suspended Solids	mg/L	APHA-23rd ed.(2540- D)	36	100
3	Total Dissolved Solids	mg/L	APHA-23rd ed.(2540-C)	436	2100
4	Total Nitrogen	mg/L	APHA-23rd ed. (5520 C) : 2017	2.7	10
5	Chemical Oxygen Demand	mg/L	APHA-23rd ed.(5220-B)	28	250
6	Biological Oxygen Demand at 27°C, 3 days	mg/L	IS:3025 (Part-44):2009	8.1	30
7	Oil and Grease	mg/L	APHA-23rd ed(5520 C)	<1.0	10
8	Ammonical Nitrogen	mg/L	APHA-23rd ed. (4500NH3,B,C) : 2017	<0.1	5

Dr. SubbaReddy Mallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) – JUNE'21

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

Report Number : VLL/VLS/21/03733/010
Issued Date : 2021.07.06
P. Order Ref : 5700291870
P.O. Date : 13.10.2020

SAMPLE PARTICULARS : STP OUTLET WASTEWATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	JUNE 2021
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	29.06.2021
Analysis Start Date	:	01.07.2021
Analysis Completion Date	:	05.07.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.8	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	42	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	461	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	3.1	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	34	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	9.6	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5	--

Dr. SubbaReddyMallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) –JULY'21

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

Report Number : VLL/VLS/21/04936/005
Issued Date : 2021.08.05
P. Order Ref : 5700291870
P.O. Date : 13.10.2020

SAMPLE PARTICULARS	:	STP OUTLET WASTEWATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	JULY 2021
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	29.07.2021
Analysis Start Date	:	30.07.2021
Analysis Completion Date	:	03.08.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.3	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	28	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	404	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	3.5	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	33	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	9	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5	--

Dr. SubbaReddyMallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) – AUGUST'21

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INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD, KENJAR HC,
KARNATAKA 574142

Report Number : VLL/VLS/21/06726/005
ssued Date : 2021.09.07
P. Order Ref : 5700291820
P.O. Date : 13.10.2020

SAMPLE PARTICULARS	:	STP OUTLET WASTEWATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	AUGUST 2021
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	18.08.2021
Analysis Start Date	:	20.08.2021
Analysis Completion Date	:	27.08.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	Results	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.6	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	37	100	<50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	371	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	2.1	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	28	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	11	30	<20
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5	--

Dr. SubbaReddy Mallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) – SEPTEMBER'21

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M/s. ADANI MANGALURU
INTERNATIONAL AIRPORT LIMITED.,
BAJPE MAIN RD, KENJAR HC,
KARNATAKA 574142

Report Number : VLL/VLS/21/07490/005
Issue Date : 2021.10.08
P.O. Ref : 5700291870
P.O. Date : 13.10.2020

Sample Name : STP Outlet Water

Sample Collection Date	: 16.09.2021	Sample Registration Date	: 18.09.2021
Sample Analysis date	: 18.09.2021	Analysis Completion Date	: 24.09.2021

Sample Collected by Vimta Labs Limited.

TEST REPORT

Sr.No	Parameters	UoM	Method of Testing	RESULTS	CPCB Standard
1	pH	--	APHA-23rd ed. (4500-H+-B)	7.4	5.5 - 9.0
2	Total Suspended Solids	mg/L	APHA-23rd ed.(2540- D)	41	100
3	Total Dissolved Solids	mg/L	APHA-23rd ed.(2540-C)	407	2100
4	Total Nitrogen	mg/L	APHA-23rd ed. (5520 C) : 2017	1.6	10
5	Chemical Oxygen Demand	mg/L	APHA-23rd ed.(5220-B)	32	250
6	Biological Oxygen Demand at 27°C, 3 days	mg/L	IS:3025 (Part-44):2009	9	30
7	Oil and Grease	mg/L	APHA-23rd ed(5520 C)	<1.0	10
8	Ammonical Nitrogen	mg/L	APHA-23rd ed. (4500NH3-B,C) : 2017	<0.1	5

Dr. SubbaReddy Mallampati
Group Leader-Environment

Life Sciences Campus, # 5, MN Science & Technology Park, Genome Valley, Shamirpet, Hyderabad - 500 101, Telangana, India
T : +91 40 6740 4040 E : mcoffice@vimta.com URL : www.vimta.com
CIN : L2411OTG1990PLC011977

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) – OCTOBER'21

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

Report Number : VLL/VLS/21/09388/005
Issued Date : 2021.11.09
P. Order Ref : 5700291870
P.O. Date : 13.10.2020

SAMPLE PARTICULARS	:	STP INLET AND OUTLET WASTE WATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	OCTOBER 2021
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	27.10.2021
Analysis Start Date	:	28.10.2021
Analysis Completion Date	:	02.11.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet	STP Outlet	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	7.21	7.38	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	118	37	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	561	464	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	4.7	2.3	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	310	41	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	78	10	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	7	<1.3	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	1.6	<0.1	5	--

Dr. SubbaReddyMallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) – NOVEMBER'21

Vimta Labs Limited
Registered Office
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ISSUED TO:

M/s. MANGALURU INTERNATIONAL AIRPORT LIMITED.,
Bajpe Main Rd,
Kenjar HC,
Karnataka 574142.

Report Number	:	VLL/VLS/21/10837/001
Issued Date	:	2021.12.03
P. Order Ref	:	5700301699
P.O. Date	:	26.11.2021

SAMPLE PARTICULARS	:	**STP OUTLET WASTEWATER**
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**NOVEMBER 2021**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen
Sample Collected On	:	27.11.2021
Analysis Start Date	:	28.11.2021
Analysis Completion Date	:	02.12.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Outlet	KSPCB Standard
1	pH	IS:3025 P-11	--	8.05	6.5 – 8.5
2	Total Suspended Solids	IS:3025 P-16	mg/L	8.9	10
3	Total Dissolved Solids	IS:3025 P-16	mg/L	526	2100
4	Total Nitrogen	APHA 4500-B	mg/L	1.7	5
5	Chemical Oxygen Demand	APHA 5220B	mg/L	50	50
6	Biological Oxygen Demand at 20°C, 5 days	APHA 5210B	mg/L	8.4	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	<0.1	5
9	Fecal Coliform	EPA Method 1681: 2008	MPN/100 ml	<1.8	<100

Dr. SubbaReddyMallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
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SEWAGE WASTEWATER QUALITY (STP) – DECEMBER'21

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Report Number : VLE/VLS/21/12777/010
Issued Date : 2022.01.08
P. Order Ref : 5700301690
P.O. Date : 26.10.2021

SAMPLE PARTICULARS	:	STP WATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	DECEMBER 2021
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; andAmmonical Nitroge, Residual Chlorine and Fecal Coliform.
Sample Collected On	:	13.12.2021
Analysis Start Date	:	16.12.2021
Analysis Completion Date	:	25.12.2021
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	CPCB Standard	Limits as per G.S.R. 1265(E)
1	pH	IS:3025 P-11	--	6.51	8.11	5.5 - 9.0	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-16	mg/L	124	36	100	< 50
3	Total Dissolved Solids	IS:3025 P-16	mg/L	806	582	2100	--
4	Total Nitrogen	APHA 4500-B	mg/L	13.3	3.1	10	--
5	Chemical Oxygen Demand	APHA 5220B	mg/L	308	47	250	--
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	80	13	30	< 20
7	Oil and Grease	APHA 5520-C	mg/L	7.1	<1.0	10	--
8	Ammonical Nitrogen	APHA 4500-F	mg/L	4.4	<0.1	5	--
9	Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	-	-
10	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	235	<1.8	<100	<1000

Dr. SubhaReddyMallampati
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ENVIRONMENT STATEMENT FOR 2021-22
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SEWAGE WASTEWATER QUALITY (STP) – JANUARY'22

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Report Number : VLL/VLS/21/13642/007
Issued Date : 2022.02.04
P. Order Ref : 5700301699
P.O. Date : 26.10.2021

SAMPLE PARTICULARS : STP WATER

Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	**JANUARY 2022**
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, and Free Residual Chlorine.
Sample Collected On	:	20.01.2022
Analysis Start Date	:	21.01.2022
Analysis Completion Date	:	25.01.2022
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	--	7.37	7.44	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	109	15	30
3	Total Dissolved Solids	IS:3025 P-16	mg/L	284	304	2100
4	Total Nitrogen	APHA 4500-B	mg/L	10.6	2.8	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	260	40	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	74	10	20
7	Oil and Grease	APHA 5520-C	mg/L	6	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	3.2	<0.1	5
9	Total Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	1
10	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	187	<1.8	<100

Dr. SubbaReddy Mallampati
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ENVIRONMENT STATEMENT FOR 2021-22
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SEWAGE WASTEWATER QUALITY (STP) – FEBRUARY'22

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Report Number : VLL/VLS/21/15515/001
Issued Date : 2022.03.03
P. Order Ref : 5700301699
P.O. Date : 26.10.2021

SAMPLE PARTICULARS	:	STP WATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	FEBRUARY 2022
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, and Free Residual Chlorine.
Sample Collected On	:	17.02.2022
Analysis Start Date	:	18.02.2022
Analysis Completion Date	:	23.02.2022
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	7.32	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	140	10	30
3	Total Dissolved Solids	IS:3025 P-16	mg/L	302	356	2100
4	Total Nitrogen	APHA 4500-B	mg/L	12.3	1.9	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	290	50	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	82	12	20
7	Oil and Grease	APHA 5520-C	mg/L	5.4	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	2.7	<0.1	5
9	Total Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	1
10	Fecal Coliform	EPA Method 1681: 2006	MPN/ 100ml	237	<1.8	<100

Dr. Subba Reddy Mallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

SEWAGE WASTEWATER QUALITY (STP) – MARCH'22

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KENJAR HC,
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Report Number : VLL/VLS/21'17402/005
Issued Date : 2022.04.05
P. Order Ref : 5700301699
P.O Date : 26.10.2021

SAMPLE PARTICULARS	:	STP WATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	MARCH 2022
Quantity Collected for Analysis	:	5 Liter
Type of Container used for sampling	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Test Required	:	pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, and Free Residual Chlorine.
Sample Collected On	:	23.03.2022
Analysis Start Date	:	24.03.2022
Analysis Completion Date	:	04.04.2022
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	--	7.19	7.12	5.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	154	14	30
3	Total Dissolved Solids	IS:3025 P-16	mg/L	298	332	2100
4	Total Nitrogen	APHA 4500-B	mg/L	9.7	7.5	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	310	30	250
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	78	8.4	20
7	Oil and Grease	APHA 5520-C	mg/L	4.7	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	2.3	<0.1	5
9	Total Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	1
10	Fecal Coliform	EPA Method 1681 : 2006	MPN/ 100ml	296	<1.8	<100

Dr. SubbaReddy Maitampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
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ANNEXURE – 3
DG EMISSIONS STACK MONITORING

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KARNATAKA 574142.

Report Number : VLL/VLS/21/04281/001
Issued Date : 2021.07.14
P. Order Ref : 5700291871
P. Order Date : 13.10.2020

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

Sampling Date : 2021.07.05
Frequency of Monitoring : Half Yearly
Monitoring Month : JULY 2021
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	°C	USEPA M-2	155	166	154	139	--
5	Velocity of the Flue gas	m/Sec		10.2	8.9	9.6	6.5	--
6	Volumetric Flow rate	Nm^3/hr		2472	2157	2326	175	--
Chemical Parameters								
7	Sulphur Dioxide	mg/Nm^3	USEPA CTM30&34	65.8	74.3	88.6	45.7	--
8	Carbon Monoxide @ 15% O2	mg/Nm^3		316.07	324.25	408.46	374.02	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		**1.042**	**0.932**	**1.267**	**1.636**	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		105.78	91.92	83.88	34.62	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		**0.349**	**0.264**	**0.260**	**0.151**	
11	Hydro Carbons as CH4@ 15% O2	mg/Nm^3		0.069	0.106	0.113	0.236	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		**0.417**	**0.370**	**0.373**	**0.388**	
12	Particulate Matter@15% O2	mg/Nm^3	USEPA M-5	30.90	41.71	26.32	36.88	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		**0.102**	**0.120**	**0.082**	**0.161**	

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

Dr. SubbaReddy Mallampati
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ENVIRONMENT STATEMENT FOR 2021-22
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ISSUED TO:
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Report Number : VLL/VLS.21/13642/011
Issued Date : 2022.02.04
P. Order Ref : 5700301699
P. Order Date : 25.10.2021

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

Sampling Date : 2022.01.27
Frequency of Monitoring : Half Yearly
Monitoring Month : JANUARY 2022
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	°C	USEPA M-2	122	134	124	134	--
5	Velocity of the Flue gas	m/Sec		11.3	9.5	10.5	7.2	--
6	Volumetric Flow rate	Nm³/hr		2738	2302	2544	194	--
Chemical Parameters								
7	Sulphur Dioxide	mg/Nm³	USEPA CTM-30&34	8.9	7.1	7.7	4.0	--
8	Carbon Monoxide @ 15% O2	mg/Nm³		199.72	200.38	249.11	402.87	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		0.729	0.615	0.845	1.952	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		597.56	750.32	840.86	236.97	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.187	2.303	2.852	1.148	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm³		0.04	0.03	0.08	0.01	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		<0.001	<0.001	<0.001	<0.001	
12	Particulate Matter@15% O2	mg/ Nm³	USEPA M-5	36.58	28.96	41.96	15.27	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.134	0.089	0.143	0.074	

*Limits as per CPCB 3G Emission Notification GSR 771(E)

Dr. SubbaReddy Mallampati
Group Leader-Environment

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

ANNEXURE – 4

DETAILS OF WASTE MANAGEMENT FOR THE PERIOD OF APRIL'21 – MARCH'22

Sr. No.	Waste Description	Disposal Method	Unit	Quantity FY 2021-22
Non Hazardous				
1.	Dry Waste	As per Solid Waste Management Rules 2016	MT	65.8
2.	RDF (Non-Recyclable)			
3.	Organic Waste			
4.	E-Waste	--As per E-waste Rules 2016	MT	1.5
Others				
1.	Battery Waste	–As per Batteries (Management and Handling) Rules 2001	MT	3.03

ENVIRONMENT STATEMENT FOR 2021-22
M/S MANGALURU INTERNATIONAL AIRPORT LTD.

ANNEXURE – 5
ENVIRONMENTA BUDGET PERIOD OF APRIL'21 – MARCH'22

S. NO.	ACTIVITY/ CATEGORY	Cost incurred (IN LAC)
		2021-2022
1	EHS Manpower	10.60
2	Legal & Statutory Expenses	40.00
3	Environmental Monitoring Services	9.88
4	Hazardous Waste Management & Disposal	46.38
5	O&M of Sewage Treatment Plant (STP)	2.31
6	Environment Monitoring Display Board	6.20
7	Plants for Horticulture	9.15
Total Amount (In Lacs)		124.52