



Ref No. AMIAL/Engg-c)/Env/2021-22/126

Date: 28-Sep-2021

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, 2021 for "Mangaluru Airport", Bajpe Mangaluru by M/s Adani Mangaluru International Airport Limited (AMIAL)

Ref: AWH-304140, issue dated 09.11.2017

Dear Sir,

Mangaluru Airport, has been granted Environmental Clearances for "Construction of New Integrated Passenger Terminal Building and Apron" at Bajpe, Mangaluru, Karnataka dated 1st November 2007. EC has been transferred in the name of Adani Mangaluru International Airport Ltd. (AMIAL) vide dtd. 3rd August 2021

The Concession Agreement for Operation, Maintenance, Management & Development of Mangaluru Airport, between Airports Authority of India (AAI) and Adani Mangaluru International Airport Limited (AMIAL) was signed on 14th February 2020. As per the above said Concession Agreement, with effect from the Commercial Operation Date (COD) i.e. 31st October 2020, AMIAL is responsible to comply with all the applicable conditions, as stipulated under the issued Clearances.

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 Airport, Bajpe Mangaluru for the financial year ending 31st March 2021. Since AMIAL has started its operation, with effect from the Commercial Operation Date (COD) i.e. 31st October 2020, the Environment Statement (Form V) is being submitted for the period November 2020 – March 2021.

Kindly consider above submission and acknowledge.

Thank you,
 Yours Sincerely,
 For, M/s Adani Mangaluru International Airport Limited

Adani Mangaluru International Airport Limited.

Chief Airport Officer

Encl: As above.

Copy to: Environment Officer, Regional Officer Karnataka State
 Plot No.10 B, Baikampady Industrial Area, Mangalore-575011

Adani Mangaluru International Airport Limited
 (Formerly known as Adani Mangalore International Airport Limited)
 Adani Corporate House,
 Shantigram, Near Vaishno Devi Circle,
 S. G. Highway, Khodiyar,
 Ahmedabad 382 421
 Gujarat, India
 CIN: U63030GJ2019PLC110062

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 info@ad
 www.ac


 RK977539697IN IVR:827597733997
 RL BAJPE AIRPORT S.O <574142> India Post
 Counter No:1,29/09/2021,13:54
 To:ENVIRONMENT O,RO KAR STATE POL
 PIN:575011, Baikampady S.O
 From:ADANI MR IN,AMIL,BAJPE MAIN
 Wt:85gms
 Amt:45.00(Cash)
 <Track on www.indiapost.gov.in>
 <Dial 18002666868> <Wear Masks, Stay Safe>


 RK977539706IN IVR:8275977539706
 RL BAJPE AIRPORT S.O <574142> India Post
 Counter No:1,29/09/2021,13:54
 To:MEMBER SECRET,KAR STATE POLLUT
 PIN:560001, Bengaluru G.P.O.
 From:ADANI MR IN,AMIL,BAJPE MAIN
 Wt:85gms
 Amt:45.00(Cash)
 <Track on www.indiapost.gov.in>
 <Dial 18002666868> <Wear Masks, Stay Safe>

Registered Office: Adani Corporate House, Shantigram, Near Vaishno Devi Circle, S.



Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

FORM V
(See Rule 14)

Environmental Statement for the period from Nov 2020 (COD) to 31st March 2021

PART - A

(i) Name and address of the Owner/ Occupier of the Industry Operation or Process : Ashutosh Chandra
Chief Airport Officer
Adani Mangaluru International Airport Ltd.
Bajpe Main Road, Kenjar P.O. Mangaluru -574 142
Email-ID- Suhas.Patil1@adani.com
Contact: +91 8956532607

(ii) Industry Category : Red-Large
Primary (STC Code) NA
Secondary (STC Code) 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 : AMIAL has started its operation from 31st October 2020 (COD). This is the first Environment Statement being submitted by AMIAL for the period November 2020 (COD) - March 2021.

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Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

PART - B

Water and Raw Material Consumption

(i) Water Consumption*

Water Consumption	Average Cu. Mtr./Day
Domestic	58
Industrial	97

*Details of Water Consumption for the period of Nov 2020 (COD)-Mar21 is enclosed as **Annexure - 1**.

Details	Process Water Consumption per unit of Passenger*	
	During the current financial year (2019-20)	During the current financial year (2020-21)
Water Consumption per Passenger Handled*	NA	0.05KL

* AMIAL being an Airport Operator does not comprises of manufacturing unit. However, the water consumption per passenger for the period of Nov-20(COD) – Mar21 is mentioned above.

(ii) Raw Material Consumption

Name of Raw Material	Name of Products/Types of Cargos and passenger handled	Consumption of Raw Material per Unit of output/Numbers of Cargos & Passenger Handled	
		During the current financial year (2019-20)	During the current financial year (2020-21)
Passenger Handled*		NA	487120

* AMIAL being an Airport Operator does not undergo any manufacturing or production. However the passengers handled in the period of Nov20 (COD)-Mar21 is mentioned above.

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Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

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		Percentage of variation from prescribed standards with reasons
	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	
(a) Waste Water	pH	--	pH	8.03	There is no variation from prescribed standards in terms of quality of wastewater discharge. 1. Waste Water generated is being treated in STP 2. Treated water during Nov(COD) 2020 – March 2021. was utilized for horticulture / greenbelt purpose within premises. Analysis reports of treated water are enclosed as Annexure-4
	Total Suspended Solids	1.28	Total Suspended Solids (mg/l)	25.67	
	BOD (5 Days @ 20 °C)	0.23	BOD (5 Days @ 20°C) (mg/l)	4.60	
	Oil & Grease	<1.0	Oil & Grease (mg/l)	<1.0	
	COD	1.30	COD (mg/l)	26.0	
(b) Air	Parameters	Avg. Mass Kg/Day	Parameters	Avg.	As a part of Environment Monitoring programme, DG set flue gas monitoring is being carried out (Half monthly / quarterly). The Analysis of the D.G Set Stack Monitoring has been done in the month of June 2021. The reports will be considered in the next cycle for FY2021-22 statement.
	Particulate Matter (PM)	--	Particulate Matter (mg/Nm ³)	--	
	Sulphur Dioxide (SO ₂)	--	Sulphur Dioxide (PPM)	--	
	Nitrogen Oxide (NO _x)	--	Nitrogen Oxide (NO _x) (PPM)	--	



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Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

PART – D

Hazardous Wastes

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

Hazardous Wastes	Total Quantity (MT)	
	During the current financial year (2019-20)	During the current financial year (2020-21)
(a) From Process		
(b) From Pollution Control facilities	NA	NIL

PART – E

Solid Waste

Solid Waste	Total Quantity Generated (MT/Annum)	
	During the current financial year (2019-20)	During the current financial year (2020-21)
(a) From Process (Ash)		
(b) From Pollution Control facilities	Refer Annexure -2	

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Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

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 AMIAL 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
 - ✓ COVID-waste is being proper managed inline to the regulatory requirements.
 - ✓ All the waste after proper segregation is being sent to the recognized agency M/s JC Alvares Enterprises for further handling.
 - ✓ Hazardous Waste, generated at AMIAL are being managed inline to the Hazardous Waste Management Rules 2016, amended till date.
 - ✓ Battery Waste, generated at AMIAL are managed inline to the Battery Waste Management Rules 2010, amended till date.
 - ✓ E-Waste, generated at AMIAL are being managed inline to the E-Waste Management Rules 2016, amended till date.
- As part of way forward Adani 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.

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Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

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 AMIAL premises to conserve the fresh water consumption.

Energy Savings

- Installed roof top solar panel of **1 MV** solar capacity as utilization of renewable source of energy for captive use which reduce the emission of CO2.
- The conventional lights and halogen lights have been replaced with LED lights in all the possible locations at AMIAL 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 AMIAL. 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 AMIAL 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 AMIAL is planning to install 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.
- Green cover of ~6.01 Ac has been developed



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Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

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.

- AMIAL 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

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.
- AMIAL Budget for environmental management measures for the FY 2020-21 of about **INR 2.66Cr.** was spent. Details enclosed as **Annexure – 3**

Adani Mangaluru International Airport Limited

Ashutosh Chandra
Chief Airport Officer

Date :

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

Designation : **Chief Airport Officer**

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



Environment Statement for 2020-21 for M/s Adani Mangaluru International Airport Ltd.

Annexure - 1

**Details of Water Consumption and Treated Water Discharge
Nov-20(COD) to Mar-21**

Month	Category-1 (Domestic), KL	Category-2 (Industrial), KL	Total, KL	Treated water, KL
Nov-20	1452	2472	3924	1161
Dec-20	2406	3052	5458	1924
Jan-21	1996	3048	5044	1596
Feb-21	1406	3043	4449	1124
Mar-21	1456	3043	4499	1164
Total	8716	14658	23374	6972
Per Month	1743	2932	4675	1394
Per Day	58	97	155	46

ANNEXURE - 2

**Details of Waste Management of AMIAL, Mangaluru
Nov 2020(COD)-Mar21**

Sr. No.	Waste Description	Disposal Method	Unit	Quantity 2019-20	Quantity 2020-21
Non Hazardous					
1.	Dry Waste	As per Solid Waste Management Rules 2016	MT	NA	57
2.	RDF (Non-Recyclable)				
3.	Organic Waste				
4.	E-Waste				
Others					
1.	Battery Waste	--	MT	NA	2.7

ANNEXURE - 3

**Cost of Environmental Protection Measures of AMIAL, Mangaluru
Nov 2020(COD)-Mar21**

Activity	Cost incurred (INR in Cr.)
Total Cost for Legal & Statutory Expenses Environmental Monitoring Services Hazardous / Non Hazardous Waste Management & Disposal Treatment and Disposal of Bio-Medical Waste Other Horticulture Expenses O&M of Sewage Treatment Plant and Effluent Treatment Plant (including STP, ETP of Port & SEZ & Common Effluent Treatment Plant), Environment Day Celebration	2.66

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ANNEXURE-4

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Vimta Labs Limited,
 Registered office
 142, IDA, Phase-II, Cherlapally,
 Hyderabad-500051, Telangana, India.
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ISSUED TO

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

Report Number : VLL/VLS/21/11513/006
 Issue Date : 2021.02.05
 P.O. Ref : 5700291871
 P.O. Date : 13.10.2020

Page 1 of 1

Sample Name	: STP Outlet Water	
Sample Collection Date	: 29.01.2021	Sample Registration Date : 01.02.2021
Sample Analysis date	: 01.02.2021	Analysis Completion Date : 11.02.2021
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)	8.46	5.5 - 9.0
2	Total Suspended Solids	mg/L	APHA-23rd ed. (2540- D)	27	100
3	Total Dissolved Solids	mg/L	APHA-23rd ed. (2540-C)	224	2100
4	Total Nitrogen	mg/L	APHA-23rd ed. (5520 C) : 2017	1.7	10
5	Chemical Oxygen Demand	mg/L	APHA-23rd ed. (5220-B)	30	250
6	Biological Oxygen Demand at 27°C, 3 days	mg/L	IS:3025 (Part-44):2009	4.6	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



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ISSUED TO

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

Report Number : VLL/VLS/21/12617/006
 Issue Date : 2021.03.05
 P.O. Ref : 5700291871
 P.O. Date : 13.10.2020

Page 1 of 1

Sample Name : STP Outlet Water

Sample Collection Date : 17.02.2021	Sample Registration Date : 19.02.2021
Sample Analysis date : 19.02.2021	Analysis Completion Date : 24.02.2021
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)	8.97	5.5 - 9.0
2	Total Suspended Solids	mg/L	APHA-23rd ed. (2540- D)	18	100
3	Total Dissolved Solids	mg/L	APHA-23rd ed. (2540-C)	320	2100
4	Total Nitrogen	mg/L	APHA-23rd ed. (5520 C) : 2017	1.2	10
5	Chemical Oxygen Demand	mg/L	APHA-23rd ed. (5220-B)	20	250
6	Biological Oxygen Demand at 27°C, 3 days	mg/L	IS:3025 (Part-44):2009	4.1	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



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ISSUED TO

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

Report Number : VLL/VLS/21/00057/006
 Issue Date : 2021.04.05
 P.O. Ref : 5700291871
 P.O. Date : 13.10.2020

Page 1 of 1

Sample Name : STP Outlet Water

Sample Collection Date : 24.03.2021	Sample Registration Date : 26.03.2021
Sample Analysis date : 26.03.2021	Analysis Completion Date : 31.03.2021
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)	6.66	5.5 - 9.0
2	Total Suspended Solids	mg/L	APHA-23rd ed. (2540- D)	32	100
3	Total Dissolved Solids	mg/L	APHA-23rd ed. (2540-C)	412	2100
4	Total Nitrogen	mg/L	APHA-23rd ed. (5520 C) : 2017	2.3	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	15	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



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