



Ref: MgIAL/Operations/Env/2022-23/ 1629

30th November 2022

To,

Addl. Principal Chief Conservator of Forest (C).

Ministry of Env., Forest and Climate Change.

Regional Office (SZ), Kendriya Sadan, 4th Floor, EBF Wings, 17th Main Road, Koramangala II Block, Bangalore 560034.

Sir,

Sub: Submission of Half yearly Environment Clearance Compliance report of Mangaluru International Airport for the period April-2022 to September 2022.

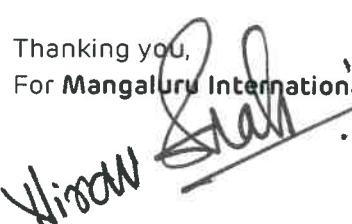
Ref.:

- 1) Environment clearance granted for "Construction of New Integrated Passenger Terminal Building and Apron" at Mangaluru Airport, Bajpe Mangaluru vide MoEF letter No. F. No. 10-79/2007-IA-III, dated 1st Nov' 2007.
- 2) Transfer of Environment Clearance from Airport Authority of India (AAI) to Adani Mangaluru International Airport Limited (AMIAL) vide MoEFCC letter No. F. No. 10-79/2007-IA-III, dated 3rd Aug' 2021.
- 3) Name Change in EC from Adani Mangaluru International Airport Limited (AMIAL) to Mangaluru International Airport Limited (MIAL) vide MoEFCC letter No. F. No. 10-79/2007-IA-III dated 16th Feb' 2022.
- 4) MoEF & CC Notification No:5845, dated: 28th Nov' 2018.

With reference to the above subject, we are hereby submitting soft copy (e-mail communication) of Half yearly Environment Clearance Compliance report of Mangaluru International Airport for the period April-2022 to September 2022, as same is being uploaded as a part of online PARIVESH 2.0 system.

Thanking you,

For **Mangaluru International Airport Limited.**


Nirav Shah,

Chief Airport Officer

Encl: As above

Copy to:

1. The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003.

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

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2. Regional Director CPCB Bangalore, Nisarga Bhavan, Thimmaiah Road, 7th D Main Rd Shivanagar, Bengaluru, Karnataka 560079.
3. Member Secretary, Karnataka State Pollution Control Board, "Parisara" Bhavan", No# 49, Church Street Bengaluru 560001
4. Environment Officer, Regional Officer Karnataka State Pollution Control Board Plot No.10 B. Baikamapady Industrial Area, Mangalore-575011

Mangaluru International Airport Limited
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Bajpe Main Road,
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adani	Mangaluru International Airport Limited (MIAL)	From: April 2022 To: September 2022
Status of the conditions stipulated in Environment Clearance		

Compliance Report of Environment Clearance dated. 1st November 2007.

adani	Mangaluru International Airport Limited (MIAL)	From: April 2022 To: September 2022
Status of the conditions stipulated in Environment Clearance		

Half yearly Compliance report for Environment Clearance for the project "Construction of New Integrated Terminal Building and Apron" by Mangaluru International Airport Ltd (MIAL)

Sr. No.	Conditions	Status as on 30th September' 2022
A. Specific Conditions		
I.	No additional land should be acquired for the project outside the existing airport limits.	<p>Complied. As part of concession agreement, Mangaluru International Airport is having an area of 583.77 Acres (air side and land side). All the activities are being carried out within the airport boundary limit.</p>
II.	The project proponent should ensure that afforestation will be carried out thrice the number of trees that have been cut.	<p>Noted. Construction activity has already been completed majorly and presently the project is under operation phase since 2010. Based on contextual and functional requirements, and overall environmental and landscape planning approach, green area has already been developed over an area of 6 Acres, Photographs are attached as Annexure-1. Other existing green areas within the airport boundary are also being maintained.</p>
III.	The project proponent should ensure that the solid waste generated from various sources within the airport complex disposed of as per norms laid down by the central and state agency.	<p>Complied Municipal Solid Waste is segregated at the source and collected in different bins in terminal and landside area as wet waste, dry waste, and PPE waste. The waste is being collected at dedicated Waste management facility. The dry waste is being taken by an outsourced agency on daily basis for further processing inline to Solid Waste Management Rules, 2016. Wet waste (food waste) airport canteens, flight kitchens are treated in organic waste converter (OWC 500KG Capacity). The compost generated from OWC is used for horticulture purpose at MIAL premises.</p>

Status of the conditions stipulated in Environment Clearance

Sr. No.	Conditions	Status as on 30 th September' 2022
IV.	<p>The project proponent should install adequate measures to harvest rainwater to meet at least 25% of the water requirement of the airport.</p>	<p>The Solid Waste Management Plan for Mangaluru International Airport is attached as Annexure-2.</p> <p>Complied.</p> <p>Rainwater harvesting was already considered as a part of this project. Photograph showing existing Rainwater harvesting structure of 5000 KL is attached as Annexure-3.</p> <p>Due to the laterite stone construction, weathering and associated safety concerns to the surrounding areas, the existing rainwater harvesting tank is not in utilization.</p> <p>However, Rainwater harvesting is under consideration as part of Masterplan and same will be implemented after feasibility studies.</p> <p>Following water conservation measures are already adopted at MIAL</p> <ul style="list-style-type: none"> i. Installation of sensor-based taps and urinals in terminal. ii. Installation of aerators in washbasin taps for water saving. 100% of treated sewage from STP is being reused in gardening.
V.	<p>Sewage and other liquid effluent generated from the airport including from the existing terminal should be treated and disposed of as per the norms laid down by the State Pollution Control Board. Adequate sewage treatment facility to treat the entire effluent generated from the airport should be provided.</p>	<p>Complied</p> <p>The sewage generated in airport premises is treated in 150KLD MBBR based STP.</p> <p>The treated sewage is being monitored by MoEFCC approved and NABL accredited laboratory and the results are within the KSPCB standard norms, the analysis reports for the period April-2022 to Sep-2022 are attached as Annexure-4. Further, the entire treated sewage is used for gardening/ green belt development.</p>

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Status of the conditions stipulated in Environment Clearance		

Sr. No.	Conditions	Status as on 30th September' 2022
		To provide adequate treatment to the quantities of sewage, an additional treatment plant of 500 KLD STP is under construction.
VI.	The quarry material required for construction of the project should be brought from approved quarries.	Complied. Construction activity has already completed.
VII.	All conditions stipulated by the State Pollution Control Board, Groundwater Authority etc., should be strictly implemented.	Complied Consent for Operation from KSPCB has been renewed vide dtd. 18 th March 2022. Copy attached as Annexure-5 . Hazardous Waste Authorization is obtained on 30 th August 2022. Copy attached as Annexure-6 . Approval for Groundwater extraction of 600 KLD is received from Karnataka Ground Water Authority vide dtd. 02 nd February 2022. Copy attached as Annexure-7 .
A. General Conditions		
I.	Construction of the proposed structure should be undertaken meticulously conforming to the existing Central/local rules. All the construction designs/drawings relating to the proposed construction activities must have approvals of the concerned State Government Departments/Agencies.	Complied. Construction activity has already been completed and presently the project is under operation Phase.
II.	A well-equipped laboratory with suitable instruments to monitor the quality of air and water shall be set up. The quality of ambient air and water shall be monitored periodically in all seasons and the results should be properly maintained for inspection of the concerned pollution control agencies. The periodic monitoring reports at least once in 6 months must be sent to this Ministry (Regional Office at Bangalore) and State Pollution Control Board.	Complied. The regular environmental monitoring viz., AAQM, Noise Monitoring, STP samples analysis, Ground water analysis, soil analysis and DG stack emissions and noise monitoring are being carried out by MoEFCC approved and NABL accredited laboratory and reports are being submitted to KSPCB on monthly, quarterly and six monthly.

adani	Mangaluru International Airport Limited (MIAL)	From: April 2022 To: September 2022
Status of the conditions stipulated in Environment Clearance		

Sr. No.	Conditions	Status as on 30th September' 2022
		Environmental Monitoring Plan and analysis reports are attached in Annexure-8 . Previous six-monthly compliance report submitted to MoEFCC RO for the period October 21 to March-2022 is attached as Annexure-9 .
III.	Adequate provisions for infrastructure facilities such as water supply, fuel for cooking, sanitation etc., must be provided for the labourers during the construction period to avoid damage to the environment. It should also be ensured that the construction workers do not cut trees including mangroves for fuel wood purpose.	Complied. Construction activity has already been completed majorly and presently the project is under operation Phase since 2010.
IV.	To prevent discharge of sewage and other liquid wastes into the water bodies, adequate system for collection and treatment of the wastes must be provided.	Complied as Point No. V of Specific Condition.
V.	The project authorities should take appropriate community development and welfare measures for the villagers in the vicinity of the project site, including drinking water facilities. A separate fund should be allocated for this purpose.	Point noted MIAL has started the commercial operation of the airport from October 2020, the appropriate measures as part of corporate responsibility will be undertaken based on need assessment and in compliance to the applicable regulations.
VI.	The quarrying material required for the construction purpose shall be obtained only from the approval quarries/borrow areas. Adequate safeguard measures shall be taken to ensure that the overburden and rocks at the quarry site do not find their way into water bodies.	Complied as Point No. VI of Specific Condition.
VII.	For employing unskilled, semi-skilled and skilled workers for the project, preference shall be given to local people.	Complied The airport operation requires high level of expertise to ensure safe operation, highly skilled technical personnel are being recruited inline to the company policies. As part of the Concession

adani	Mangaluru International Airport Limited (MIAL)	From: April 2022 To: September 2022
Status of the conditions stipulated in Environment Clearance		

Sr. No.	Conditions	Status as on 30th September' 2022
		Agreement, the existing Airport Authority manpower is continued for 3 years. However, for other supportive operations, like Housekeeping, Administration, STP operation, Horticulture, Utility operation etc, local people (Semiskilled) are employed.
VIII.	The recommendations made in the Environment Management Plan and Disaster Management Plan, as contained in the Environmental Impact Assessment and Risk Analysis Reports of the project shall be effectively implemented.	Complied Best practices and Environment Management Plan being implemented are annexed as Annexure-10 . Aerodrome Emergency Response Plan has been submitted as part of Half Yearly Compliance Report submitted for the period of Oct-21 to Mar-22 vide dtd. 21st May 2022
IX.	A separate Environment Management Cell with suitably qualified staff to carry out various environment related functions should be set up under the charge of a Senior Executive who will report directly to the Chief Executive of the Company.	Complied Site is having qualified Environmental Engineer to take care of Environment related functions. He reports to Head-Quality & EHS and further reporting to Chief Airport Officer who directly reports to the top management. Organogram is attached as Annexure-11 .
X.	The project affected people, if any should be properly compensated and rehabilitated.	Not applicable
XI.	The funds earmarked for environment protection measures should maintained in a separate account and there should be no diversion of these funds for any other purpose. A year-wise expenditure on environmental safeguards should be reported to this Ministry.	Complied A separate budget for the Environment protection measures is earmarked all the expenses are recorded in advanced accounting system of the organization, a budget of Rs.127 lacs have been earmarked for the year 2022-23. An amount of Rs.113 Lacs has been spent for environmental management measures (Environment Monitoring, Horticulture, Solid Waste Management,

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Sr. No.	Conditions	Status as on 30th September' 2022
		STP O&M, Awareness etc) during April 2022 to September 2022. During the compliance period (Oct'21 to Mar'22) INR 48.96 lakhs has been spent.
XII.	Full support should be extended to the officers of this Ministry's Regional Office at Bangalore and the officers of the Central and State Pollution Control Boards by the project proponents during their inspection of monitoring purposes, by furnishing full details and action plans including the action taken reports in respect of mitigative measures and other environmental protection activities.	<p>Being Complied</p> <p>Full support is being extended to the regulatory authorities during their visit to the project site. All necessary documents are submitted as per the request of the visiting authorities.</p>
XIII.	In case of deviation or alteration in the project including the implementing agency, a fresh reference should be made to this Ministry for modification on the clearance conditions or imposition of new ones for ensuring environmental protection. The project proponents should be responsible for implementing the suggested safeguard measures.	<p>Complied.</p> <p>The existing Environment Clearance has been transferred in the name of Adani Mangaluru International Airport Limited (AMIAL) from Airports Authority of India (AAI). vide transfer order dated 3rd August 2021. Copy attached as Annexure-12.</p> <p>Further, the Name change in EC from AMIAL to MIAL has been obtained on 16th February 2022. Copy attached as Annexure-13.</p>
XIV.	The Ministry reserves the right to revoke this clearance, if any of the conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	<p>Point Noted</p>
XV.	The Ministry or any other competent authority may stipulate any other additional conditions subsequently, if deemed necessary, for environmental protection, which shall be complied with.	<p>Point Noted</p>
XVI.	The project proponent should advertise at least in two local newspapers widely circulated in the region around the project, one of which shall be in the vernacular language of the locality	<p>Complied</p>

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Sr. No.	Conditions	Status as on 30th September' 2022
	concerned informing that the project has been accorded environmental clearance and copies of clearance letters are available with the State Pollution Control Committee and may also be seen at Website of the Ministry of Environment & Forests at http://www.envfornic.in . The advertisement should be made within 7 days from the date of issue of the clearance letter and a copy of the same should be forwarded to the Regional Office of this Ministry at Bangalore.	The copies of the published advertisement is attached in the Annexure-14 .
XVII.	The Project proponents should inform the Regional Office at Bangalore as well as the Ministry the date of financial closure and final approval of the project by the concerned authorities and the date of start of Land Development Work.	<p>Complied.</p> <p>Construction activity has already been completed and presently the project is under operation Phase.</p> <p>Concession agreement has been signed between Airports Authority of India (AAI) and Mangaluru International Airport Limited (formerly known as Adani Mangaluru International Airport Limited) on 14th February' 2020. As per the above said Concession Agreement, MIAL has commenced the operation with effect from the Commercial Operation Date (COD)i.e. 31st October' 2020.</p>

adani	Mangaluru International Airport Limited (MIAL)	From : Apr' 2022 To : Sept' 2022
Green Cover at Mangaluru International Airport		



Avenue Plantation at parking area



Avenue Plantation at parking area



Green cover near New Terminal Building

adani	Mangaluru International Airport Limited (MIAL)	From : Apr' 2022 To : Sept' 2022
Green Cover at Mangaluru International Airport		



Aesthetic plantation in terminal building

adani	Mangaluru International Airport Limited (MIAL)	From : Apr' 2022 To : Sept' 2022
Green Cover at Mangaluru International Airport		

Green area at airport is being developed as per their contextual and functional requirements and overall environmental and landscape planning approach. Green space and landscape development at airport is planned considering key airport related constraints i.e., Bird menace, height restriction, restriction in open area etc.

Green area has already been developed over an area of 6 Acres.

List of existing plant species present at MIA.

Sr. No.	Botanical Name
1	Acacia auriculiformis
2	Aglaonema marantifolium
3	Aglaonema silver queen
4	Aglaonema spp.
5	Aglaonema spp. Malay beauty
6	Aglaonema spp. Silver Queen
7	Alocasia green
8	Alpinia purpurea
9	Alpinia zerumbet
10	Alstonia scholaris
11	Anthurium clarinervium
12	Areca catechu
13	Areca catechu
14	Asplenium nidum
15	Bahunia blackena
16	Bambusa bamboo
17	Bermuda Lawn Selection -1
18	Borassus flabellifer
19	Bougainvillea glabra
20	Brassia actinophylla
21	Cactus and succulents
22	Caesalpinia pulcherrima
23	Calophyllum inophyllum
24	Canna india dwarf
25	Caralia antegerima
26	Caryota urens
27	Caryota urens
28	Cassia alata
29	Cassia alata
30	cassia fistula
31	Casuarina equisetifolia
32	Chasalia curviflora
33	Clerodendron paniculatum
34	Clerodendrum paniculatum
35	Cocos nusifera
37	Codiaeum variegatum
38	Codiaeum variegatum banglore beauty
39	colocasia esculentum
40	Cordyline t. carnival
41	costus speciosa
43	Costus speciosus
44	Crinum lily (green)
45	Crinum lily (yellow)
46	Cyrtostachys renda
47	Dalbergia sympathetica
48	Dracaena f. massangeana

adani**Mangaluru International Airport Limited
(MIAL)****From : Apr' 2022
To : Sept' 2022****Green Cover at Mangaluru International Airport**

49	Dracaena victoriae
50	Dracena tricolor
9	Epipremnum aureum
10	Euphorbia hirta
11	Ficus benghalensis
12	Ficus panda
13	Ficus religiosa
14	Garcinia indica
15	Gliricidia maculata
16	Gloriosa superba
17	Heliconia spp.
18	Hibiscus rosa sinensis
19	Hopea parviflora
20	Ipomea spp.
21	Ixora chinensis
22	Lantana camara
23	Lantana camera
24	Lantana sellowiana
25	Licula grandis
26	Licula grandis
27	Mangifera indica
28	Melastoma malabathricum
29	Michelia champaca
30	Mimosa pudica
31	Mimusops elengi
32	Pandanus cosmos
33	Pandanus vietchii
34	Pellargonium spp.
35	Peltaphorom pterocarpum
37	Philodendron ceylon gold
38	Phyllanthus emblica
39	Plumeria alba
40	Plumeria pudica
41	Radermacheira sp.
43	Raphis excelsa
44	Ricinus communis
45	Sandalum album
46	Sansevieria t.g. hahnii
47	Santalum album
48	Saraca asoca
50	Schefflera arboricola
51	Schefflera arboricola variegated
52	Spathiphyllum wallisi
53	Spathiphyllum wallisii
54	Strelitzia reginae
55	Syngonium macrophyllum
56	Syngonium Multi colour
57	Tabebuia rosea
58	Tectona grandis
59	Terminalia catappa
60	Vernonia SP.
61	Wadelia sp
62	Zamia zamiculus

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'2022 To : Sep'2022
Solid Waste Management Plan		

Solid Waste Management Plan - Mangaluru International Airport

Generation:

At present, Mangaluru International Airport generates an average of around 200-300 kgs of municipal solid waste. The generation varies with the passengers and visitors' influx.

Source Segregation:

The waste generated in the airport is segregated at source in the bins having compartment for biodegradable and non-biodegradable waste. The segregates waste is transported to the Solid Waste processing facility.

Covid waste:

Airport terminal is provided with separate bins for covid PPE kits, the covid PPE kit is stored and sent for recycling by the processor.

Secondary transportation and Processing:

Mangaluru International Airport is working on Solid Waste management to achieve 'Zero Waste Landfill', as part of this, MIA has set up of 3 Tons Per Day Solid Waste processing facility. An outsourced agency M/s. KNN Enterprises is appointed for transportation and processing of the waste in solid waste processing facility which consists of dry waste segregation area and Wet waste processing area.

The Solid Waste processing facility is having wet waste/ organic waste processing area with Organic Waste Converter (OWC) of 500 kg capacity with curing crates and shelves. The daily food waste generated at airport canteens, flight kitchens are treated in organic waste converter (OWC 500KG Capacity). The compost generated from OWC is used for horticulture purpose at MIAL premises.

Dry waste segregation area consists of demarcated compartments like plastic, plastic bottles, paper, glass bottles and PPE waste. The dry waste will be segregated in these compartments and sent to recyclers for further recycling. The photos of the solid waste processing area are given below.

Solid Waste Management Plan



Figure (a) and (b): Waste collection bins kept in terminal for collection and source segregation



Figure (c): Waste collection bin kept in terminal for Covid safety PPE kits



Figure (d): Waste collection bin kept in terminal for recyclable waste

adani

**Mangaluru International Airport Limited
(MIAL)**

From : Apr'2022

To : Sep'2022

Solid Waste Management Plan



Figure (e): Solid Waste processing facility at Airport premises



Figure (e): Figure (f): Dry waste segregation and sorting area

adani

Mangaluru International Airport Limited
(MIAL)

From : Apr'2022
To : Sep'2022

Solid Waste Management Plan



Figure (f): Organic/ wet waste processing area with 500 Kg OWC

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'2022 To : Sep'2022
Rainwater Collection tank at Mangaluru International Airport		



(a)

Figure (a): Rainwater collection tank at Mangaluru International Airport

Vimta Labs Limited

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 T : +91 40 2726 4141
 F : +91 40 2726 3667

**ISSUED TO:**

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

Report Number : VLL/VLS/22/01163/006
 Issued Date : 2022.05.08
 P. Order Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

SAMPLE PARTICULARS

	STP WATER
Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: APRIL 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	: 20.04.2022,...
Analysis Start Date	: 22.04.2022
Analysis Completion Date	: 28.04.2022
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	--	7.32	7.07	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	171	16	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	324	303	2100
4	Total Nitrogen	APHA 4500-B	mg/L	11.2	2.7	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	296	36	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	84	9.3	10
7	Oil and Grease	APHA 5520-C	mg/L	6.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	3.7	<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	271	<1.8	<100

Dr. SubbaReddy Mallampati
 Group Leader-Environment

ISSUED TO:

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

Report Number : VLL/VLS/22/02952/006
 Issued Date : 2022.06.03
 P. Order Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

SAMPLE PARTICULARS

	STP WATER
Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: MAY 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	: 18.05.2022,...
Analysis Start Date	: 20.05.2022
Analysis Completion Date	: 27.05.2022
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	--	7.22	7.14	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	192	18	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	301	287	2100
4	Total Nitrogen	APHA 4500-B	mg/L	13.3	4.1	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	274	43	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	76	8.8	10
7	Oil and Grease	APHA 5520-C	mg/L	7.3	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	4.8	<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	311	<1.8	<100



Dr. SubbaReddy Mallampati
Dy. Manager

ISSUED TO:

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

Report Number : VLL/VLS/22/04667/006
 Issued Date : 2022.07.05
 P. Order Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

SAMPLE PARTICULARS	
Frequency Of Sampling	: One Grab sample in a Month
Month of Sampling	: June 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	: 22.06.2022
Analysis Start Date	: 23.06.2022
Analysis Completion Date	: 02.07.2022
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	--	7.49	7.36	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	32	8	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	524	408	2100
4	Total Nitrogen	APHA 4500-B	mg/L	76	6.2	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	180	30	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	54	9.2	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	38	1.6	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	127	<1.8	<100


Dr. SubbaReddy Mallampati
Dy. Manager-Environment

ISSUED TO:

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

Report Number : VLL/VLS/22/06627/006
 Issued Date : 2022.08.04
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

Page 1 of 1

SAMPLE PARTICULARS		STP WATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	July 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	:	20.07.2022
Analysis Start Date	:	22.07.2022
Analysis Completion Date	:	30.07.2022
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	--	7.24	7.35	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	41	13	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	612	453	2100
4	Total Nitrogen	APHA 4500-B	mg/L	82	4.8	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	202	41	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	63	8.6	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	44	2.7	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	106	<1.8	<100


Dr. SubbaReddy 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

**ISSUED TO:**

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

Report Number : VLL/VLS/22/09425/006
Issued Date : 2022.09.24
P. Order Ref : 5700312478
P.O. Date : 20.07.2022

Page 1 of 1

SAMPLE PARTICULARS		
Frequency Of Sampling	:	STP WATER
Month of Sampling	:	One Grab sample in a Month
Quantity Collected for Analysis	:	September 2022
Type of Container used for sampling	:	5 Liter
Test Required	:	HDPE Plastic Container-3 L Amberlite Glass Container-2 L
Sample Collected On	:	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.
Analysis Start Date	:	15.09.2022
Analysis Completion Date	:	17.09.2022
Sample collected by Vimta Labs Ltd.,		24.09.2022

TEST REPORT

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.06	7.01	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	25	3.4	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	670	660	2100
4	Total Nitrogen	APHA 4500-B	mg/L	52	5.9	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	106	28.2	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	46.3	5.9	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	28	<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	124	2.1	<100

Sivakumar Madireddy
Group Leader-Environment

Vimta Labs Limited

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/08033/006
 Issued Date : 2022.09.02
 P. Order Ref : 5700312426
 P.O. Date : 20.07.2022

Page 1 of 1

SAMPLE PARTICULARS		STP WATER
Frequency Of Sampling	:	One Grab sample in a Month
Month of Sampling	:	August 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, Free Residual Chlorine and Fecal Coliform.
Sample Collected On	:	23.08.2022
Analysis Start Date	:	25.08.2022
Analysis Completion Date	:	02.09.2022
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	--	7.13	7.72	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	36	15	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	566	372	2100
4	Total Nitrogen	APHA 4500-B	mg/L	63	2.8	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	120	33	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	41	8.1	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	32	1.8	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	137	<1.8	<100

Dr. Subba Reddy Mallampati
 Dy. Manager-Environment



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-330415
Valid upto: 30/06/2026

Industry Colour: RED

Industry Scale: LARGE

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

(This document contains 6 pages including annexure & excluding additional conditions)

SCHEDULE

TERMS AND CONDITIONS

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

1. The discharge from the premises of the occupier shall pass through the terminal manhole/manholes where from the Board shall be free to collect samples in accordance with the provisions of the Act/Rules made there under.

2(a). The sewage/domestic effluent shall be treated in septic tank and with soak pit. No overflow from the soak pit is allowed. The septic tank and soak pit shall be as per IS 2470 Part-I & Part-II.

2(b). The treated sewage effluent discharged shall conform to the standards specified in Annexure-I.

3(a). The trade effluent generated in the industry shall be treated in the ETP and treated effluent shall conform to the standards stipulated by the Board in Annexure-I

3(b). The trade effluent shall be handed over to CETP and maintain logbook of effluent generated & sent every day.

4. The applicant shall install flow measuring/recording devices to record the discharge quantity and maintain the record.

5. The applicant shall not change or alter either the quality or the quantity or the place of discharge or temperature or the point of discharge without the previous consent/ permission of the Board.

6. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises. Storm water shall not be allowed to mix with the effluents on the upstream of the terminal manhole where the flow measuring devices are installed.

7. The daily quantity of domestic effluent and trade effluent from the industry shall not exceed the limits as indicated in this consent order:

8. The applicant shall discharge the effluents only to the place mentioned in the Consent order and discharge of treated/untreated outside the premises is not permitted.

B. EMISSIONS:

1. The discharge of emissions from the premises of the applicant shall pass through the air pollution control equipment and discharged through stacks/chimneys mentioned in **Annexure-II** where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The tolerance limits of the constituents forming the emissions in each of the stacks shall not exceed the limits laid down in Annexure-II.

2. The applicant shall provide port holes for sampling of emission, access platforms for carrying out stack sampling, electrical points and all other necessary arrangements including ladder as indicated in Annexure-II.

3. The applicant shall upgrade/modify/replace the control equipment with prior permission of the Board.

C. MONITORING & REPORTING:

1. The applicant shall get the samples of effluents & emissions collected and get them analyzed once a month/either by in house monitoring laboratory or through EP approved laboratories for the parameters as indicated in Annexure I & II.

2. The applicant shall maintain log books to reflect the working condition of pollution control systems and also self monitoring results and keep it open for inspection.

D. SOLID WASTE (OTHER THAN HAZARDOUS WASTE) DISPOSAL:

1. The applicant shall segregate solid waste from Hazardous Waste, Municipal Solid Waste and store it properly till treatment/disposal without causing pollution to the surrounding Environment.

2. The solid waste generated shall be handled & disposed by scientific method without causing eye sore to the general public and to the surrounding environment.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-330415
Valid upto: 30/06/2026

Industry Colour: RED

Industry Scale: LARGE

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
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Fax: 080-25586321
email id: ho@kspcb.gov.in

(This document contains 6 pages including annexure & excluding additional conditions)

E. NOISE POLLUTION CONTROL:

The applicant shall ensure that the ambient noise levels within its premises during construction and during operational period shall not exceed w.r.t Area/Zone as per Noise Pollution (Regulation and Control) Rules, 2000 as mentioned below:-

- a) In Industrial Area 75 dB(A) Leq during day time and 70 dB(A) Leq during night time.
- b) In Commercial Area 65 dB(A) Leq during day time and 55 dB(A) Leq during night time.
- c) In Residential Area 55 dB(A) Leq during day time and 45 dB(A) Leq during night time.
- d) In Silence Zone 50 dB(A) Leq during day time and 40 dB(A) Leq during night time.

Note: - * Day time shall mean 6 am to 10 pm and Night time shall mean 10 pm to 6 am.

* dB(A) Leq denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing.

* A "decibel" is a unit in which noise is measured.

* "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.

* Leq: It is an energy mean of the noise level over a specified period.

F. HAZARDOUS AND OTHER WASTES (MANAGEMENT & TRANSBOUDARY MOVEMENT)Rules 2016:

The applicant shall comply with the provisions of the Hazardous and other Wastes (Management & Transboundary Movement) Rules 2016.

G. GENERAL CONDITIONS:

1. The applicant shall not allow the discharge from the other premises to mix with the discharge from his premises.
2. The applicant shall promptly comply with all orders and instructions issued by the Board from time to time or any other officers of the Board duly authorized in this behalf.
3. The applicant shall set-up Environmental Cell comprising of qualified and competent personnel for complying with the conditions specified.
4. The Board reserves the right to review, impose additional conditions, revoke, change or alter terms and conditions of this consent.
5. The applicant shall forthwith keep the Board informed of any accidental discharge of emissions/effluents into the atmosphere in excess of the standards laid down by the Board. The applicant shall also take corrective steps to mitigate the impact.
6. The applicant shall provide alternate power supply sufficient to operate all Pollution control equipments.
7. The entire premises shall always be kept clean. The effluent holding area, inspection chambers, outlets, flow measuring points should made easily approachable.
8. The applicant shall display the consent granted in a prominent place for perusal of the inspecting officers of the Board.
9. The applicant his heirs, legal representatives or assignee shall have no claims what so ever to the continuation or renewal of this consent after expiry of the validity of consent.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-330415
Valid upto: 30/06/2026

Industry Colour: RED

Industry Scale: LARGE

Karnataka State Pollution Control Board
Parisara Bhavana No.49, Church
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10. The applicant shall make an application for consent for subsequent period at least 45 days before expiry of this consent.
11. The applicant shall develop and maintain adequate green belt all around the periphery.
12. The applicant shall provide rain water harvesting system and shall provide proper storm water management system.
13. This consent is issued without prejudice to any Court Cases pending in any Hon'ble Court
14. The applicant shall furnish the Environmental statement for every financial year ending with 31st March in Form-V as per Environment (Protection) Rules, 1986. The statement shall be furnished before the end of September.
15. The applicant shall display flow diagram of the pollution control system near the pollution control system/s.

NOTE:

The Conditions 2 (a), 3 (a) and 3 (b) mentioned in the schedule are not applicable.

Additional Conditions:

1) The applicant shall comply the Additional Conditions incorporated in Annexure which is uploaded along with this CFO Order for the period up to 30.06.2026 2) The applicant shall comply the conditions incorporated in E-Waste Rules & Plastic Waste Rules & submit the compliance to the Regional Office



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-330415
Valid upto: 30/06/2026

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Chi m.N o.	Chimney Capacity/ KVA attached to	Minimum chimney height to be provided above ground level (in Mts)	Constituents to be controlled in the emission	Tolerance limits mg/NM3	Fuel	Air pollution Control equipment to be installed, in addition to chimney height as per col.(4)	Date of which air pollution control equipments shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights.
1	D.G. Sets	45 KVA	1 PM(mg/NM3),SO2 (PPM),NOx(PPM)	107,179,0.4 6	DIE	AEC	Before commissioning.
2	D.G. Sets	30 KVA	1 PM(mg/NM3),SO2 (PPM),NOx(PPM)	107,179,0.4 6	DIE	AEC	Before commissioning.
3	D.G. Sets	30kVA	0 PM(mg/NM3),SO2 (PPM),NOx(PPM)	233,3,89,6, 1.24	DIE	N.A	Before commissioning.
4	D.G. Sets	30kVA	0 PM(mg/NM3),SO2 (PPM),NOx(PPM)	143,3,358,4 .507	DIE	N.A	Before commissioning.
5	D.G. Sets	750kVA	6 PM(mg/NM3),SO2 (PPM),NOx(PPM)	83,33,209,4 .051	DIE	AEC	Before commissioning.
6	D.G. Sets	750kVA	6 PM(mg/NM3),SO2 (PPM),NOx(PPM)	20,129,4,2, 81	DIE	AEC	Before commissioning.
7	D.G. Sets	750kVA	14 PM(mg/NM3),SO2 (PPM),NOx(PPM)	163,3,89,6, 0.54	DIE	AEC	Before commissioning.
8	D.G. Sets	750kVA	14 PM(mg/NM3),SO2 (PPM),NOx(PPM)	30,119,5,0, 44	DIE	AEC	Before commissioning.
9	D.G. Sets	750kVA	14 PM(mg/NM3),SO2 (PPM),NOx(PPM)	20,59,73,0, 38	DIE	AEC	Before commissioning.
10	D.G. Sets	500kVA	6 PM(mg/NM3),SO2 (PPM),NOx(PPM)	6,67,59,73, 1	DIE	N.A	Before commissioning.
11	D.G. Sets	250kVA	6 PM(mg/NM3),SO2 (PPM),NOx(PPM)	30,179,2,0, 30	DIE	N.A	Before commissioning.
12	D.G. Sets	160kVA	0 PM(mg/NM3),SO2 (PPM),NOx(PPM)	53,33,109,5 .041	DIE	N.A	Before commissioning.
13	D.G. Sets	25kVA	0 PM(mg/NM3),SO2 (PPM),NOx(PPM)	107,179,0.4 6	DIE	N.A	Before commissioning.
14	D.G. Sets	125kVA	6 PM(mg/NM3),SO2 (PPM),NOx(PPM)	130,219,1	DIE	AEC	Before commissioning.
15	D.G. Sets	125kVA	6 PM(mg/NM3),SO2 (PPM),NOx(PPM)	233,120,1	DIE	AEC	Before commissioning.

Note:

AEC : Acoustic Enclosures

N.A : Not Applicable

Note:

1. The Noise levels within the premises shall not exceed 75 dB (A) leq during day time and 70 dB(A) leq during night time respectively.
2. The DG set shall be provided with acoustic measures as per Sl.No.94 in Schedule-I of Environment (Protection)Rules.
3. There shall be no smell or odour nuisance from the industry.



**Consent For Operation
(CFO-Air,Water)**

Consent No. AW-330415
Valid upto: 30/06/2026

Industry Colour: RED Industry Scale: LARGE

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
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(This document contains 6 pages including annexure & excluding additional
conditions)

LOCATION OF SAMPLING PORTHOLES, PLATFORMS, ELECTRICAL OUTLET.

1. Location of Portholes and approach platform:

Portholes shall be provided for all chimneys, stacks and other sources of emission. These shall serve as the sampling points. The sampling point should be located at a distance equal to atleast eight times the stack or duct diameters downstream and two diarneters upstream from source of low disturbance such as a Bend, Expansion, Construction Valve, Fitting or Visible Flame for rectangular stacks, the equivalent diameter can be calculated from the following equation.

$$\text{Equivalent Diameter} = \frac{2 \text{ (Length} \times \text{Width)}}{(\text{Length} + \text{Width})}$$

2. The diameter of the sampling port should not be less than 100 mm dia". Arrangements should be made so that the porthole is closed firmly during the non sampling period
3. An easily accessible platform to accommodate 3 to 4 persons to conveniently monitor the stack emission from the portholes shall be provided. Arrangements for an Electric Outlet Point of 230 V 15 A with suitable switch control and 3 Pin Point shall be provided at the Porthole location.
4. The ladder shall be provided with adequate safety features so as to approach the monitoring location with ease.

For and on behalf of the
Karnataka State Pollution Control Board

Validity unknown

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ANNEXURE-I

ADDITIONAL CONDITION TO ACCOMPANY CONSENT FOR OPERATION ORDER OF M/S. MANGALURU INTERNATIONAL AIRPORT LIMITED, BAIPE, MANGALURU TALUK, DAKSHINA KANNADA DISTRICT - 574142.

Preamble:

M/S. Mangaluru International Airport Limited, Bajpe, Mangaluru Taluk, Dakshina Kannada District – 574142 is an existing industry & engaged in Airport Operation. Board has issued Consent for operation for the above said products vide combined consent order No. KSPCB/(Non-EIA-OB)/LR/2015-16, Dated: 15.10.2015 for the period ending up to 30.06.2016, later Board issued CFO renewal Order vide No. AWH-304140, PCB ID:11931, Dated: 09.11.2017 for the period ending up to 30.06.2021.

Now, the industry has applied for renewal of CFO for Airport Operation vide online application submitted on 02.11.2021. The issue of CFO was discussed in the Consent Committee Meeting held on 21.12.2021. The Committee recommended for issue of CFO up to 30.06.2026 with conditions.

The Combined Consent Order is valid for the period from **01.07.2021 to 30.06.2026** under Water and Air Acts & the following additional conditions are hereby imposed for compliance.

- As per the Board Office Memorandum issued vide No. PCB/37(Vol-3)/COC/2015/178, Dated: 08.04.2021 regarding payment of new consent fees as per Karnataka Govt Gazette, dated: 12.11.2020 for which consent fees had to be remitted and in view of Board Office Memorandum for which affidavit has been submitted by yourself to remit balance consent fees incase non-revision of consent fees.
- **The CFO issued subjected to realization of consent fees paid by factory authority.**
- As per Hon'ble NGT Directions in O.A. No. 681/2018, Dated: 06.08.2019 and B.O. Order issued vide No. KSPCB/SEO-Infra-DG/Retrofitting/2021-22/2887, Dated: 17.09.2021, all DG Sets of capacity 125 KAV and above are hereby directed to Retrofit the DG Sets with an Emission Control Device/Equipment having a minimum specified Particulate Matter (PM) capturing efficiency of at least 70% in 5 mode D2 cycle and above should result in increase of fuel efficiency are shifting to gas based generators by employing new gas based generators are retrofitting the existing DG Set are partial gas usage.
- Applicant shall furnish due diligence within 3 months regarding applicability of obtaining NOC as per MINISTRY OF JAL SHAKTI (Department of Water Resources, River Development and Ganga Rejuvenation) (CENTRAL GROUND WATER AUTHORITY) New Delhi, Notification No. S.O. 3289(E) Dated: 24th September, 2020.

A. TREATMENT AND DISPOSAL OF EFFLUENTS UNDER THE WATER ACT.

Source of Water from: - from bore well.

1. The daily quantity of effluent discharge shall not exceed the limits and shall not contain the constituents in excess of the tolerance limits laid down as indicated in the table below. The applicant shall monitor the quantity of effluents for the parameters stipulated as per the frequency indicated.

Sl. No.	Usages	Water Consumption in KLD	Effluent generation in KLD	Mode of Disposal
1	Domestic	150	120	On land for irrigation after treating in STP
2	Industrial (Cooling Tower)	5.0	0.0	Recycled
	Total	155	120	

2. The STP site, inspection chambers, Outlets, flow measuring points shall be provided at easily approachable location.
3. There shall not be any discharge of domestic effluent outside the premises at any point of time.
4. The treated domestic effluent shall be used on land for gardening after conforming to standards as per Annexure-I (A).
5. The industry shall upgrade/ modify/ replace the STP units if they are found inadequate to meet the standards stipulated.
6. The applicant shall provide separate flow meter for measuring the quantity of trade effluent/sewage effluent generated.
7. The application shall obtain prior permission of the State Ground Water Board of abstraction of ground water and shall submit copy of such permission issued within a month if ground water is proposed to be drawn for domestic use.

B. AIR POLLUTION CONTROL

1. The discharge of emissions from the premises of the applicant shall pass through stacks/ chimneys mentioned in Annexure-II, where from the Board shall be free to collect the samples at any time in accordance with the provisions of the Act and Rules made there under. The stacks/ chimneys heights shall be as per Annexure-II.
2. The industry shall operate the air pollution control equipment as specified in the Annexure-II **continuously**, so as to ensure that the emission does not exceed the limits specified.
3. The industry shall maintain port holes, access platforms for carrying out stack sampling with electrical outlet points for samples of emissions from port holes in all the stacks, as per the guidelines.

C. SELF-MONITORING AND REPORTING BY THE INDUSTRY:-

1. The applicant shall carryout the continuous ambient air quantity monitoring and submit the report to the Regional Officer of the Board. The AAQM stations shall be carried as per the requirements under the National Ambient Air Quality Monitoring Standards stipulated in Environmental (Protection) Rules, 1986. The Airport Authority shall monitor PM₁₀, PM_{2.5}, SO₂, NO₂, O₃, Co, Ammonia, Pb, Ni, Arisenic, Nickel, Benzene and Benzo pyren and shall furnish compliance to the Regional Officer before 31.07.2022.
2. The applicant shall install continuous noise monitoring system and shall furnish compliance report to levels on the periphery of the industry at five locations and shall submit the monitoring report to the Regional Officer before 31.07.2022.
3. The treated domestic effluent shall be monitored once in a month apart from routine monitoring for process control of STP. The analysis report shall be submitted to Regional Officer regularly.
4. The applicant shall carry out self -monitoring from MoEF approved Laboratories and shall submit the monitoring reports regular to the Regional Office.

D. HAZARDOUS & OTHER WASTE (MANAGEMENT TRANSBOUNDARY MOVEMENT) RULES 2016:

1. The applicant shall comply with the Hazardous and Other Waste (Management and Transboundary Movement) Rules, 2016.
2. The applicant shall provide dedicated storage area with impervious floor so as to store various kinds of hazardous waste generated.

E. SOLID WASTE MANAGEMENT

The applicant shall collect in the factory premises as sweepings, wastage from packaging, empty containers, residue, sludge including those from air pollution control equipments shall be disposed-off scientifically to the satisfaction of the Board so as not to cause fugitive emissions, cause fugitive emissions, dust problems or water pollution problems through leaching etc., of any kind.

F. GENERAL CONDITIONS

1. The applicant shall not change or alter either the quality or rate of emission or install/replace or alter the air pollution control equipment, change in raw material or manufacturing process resulting in change in quality and /or quantity of emissions without the prior permission of the Board.
2. The applicant shall maintain register recording the continuous ambient air quality, stack monitoring and analysis report of treated effluents. The register shall be open for inspection by the Board Officers at all time.
3. An inspection Book shall be opened and made available to the Board Officers during their visit to the factory.
4. The industry shall transport a store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.

5. The industry shall comply with all the consent conditions and furnish report within 30 days to the Regional Officer.
6. The Mangalore International Airport shall take prior EC from competent authority (MoEF & CC/State Environment Impact Assessment Authority) for proposed expansion comprising of construction of additional parking bays, taxi way development, expansion of terminal building etc., before commencement of construction work. If the authorities takes up any additional construction work, which may results in exceeding of approved EC area of 18,200 sqmtrs.


SENIOR ENVIRONMENTAL OFFICER

ANNEXURE - I (A)

**DISCHARGE STANDARDS FOR SEWAGE TREATMENT PLANT
ON LAND FOR IRRIGATION**

Sl.No.	Characteristics	Tolerance Limits
1	pH	6.5-9.0
2	Bio-Chemical Oxygen Demand, (3 days at 27° C) mg/l	Not more than 10
3	Chemical Oxygen Demand, mg/l	Not more than 50
4	Total Suspended Solids mg/l,	Not more than 20
5	Ammoniacal Nitrogen, mg/l	Not more than 5
6	Total Nitrogen, mg/l	Not more than 10
7	Faecal Coliform (MPN/100 ml)	Less than 100

Table
Hydraulic Loading Applicable For Different Soils.

Sl. No.	Soil Texture	Loading rate in M ³ /Hec/day.
1	Sandy	225 to 280
2	Sandy Loam	170 to 225
3	Loam	110 to 170
4	Clay Loam	055 to 110
5	Clayey	035 to 055

20941
Senior Environmental Officer
NEIA-OB

ANNEXURE-II

The Air pollution sources, Chimney height and the control equipments provided by the industry shall be as below and the Air pollution sources mentioned in the main consent shall be replaced with this Annexure-II.

Sl. No.	Chimney Attached to	Minimum Chimney Height to be Provided	Constituen- ts to be controlled in the emission.	Air Pollution Control equipment to be installed in addition to Chimney height as per Col (3)		Date of which air pollution Control equipment shall be provided to achieve the stipulated tolerance limits and chimney heights conforming to stipulated heights	Remarks
				5	6	7	
1.	DG-set of capacity 125KVA- I	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	1. The emission rate of all chimneys shall be reported within 30 days.
2.	DG-set of capacity 125KVA- II	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	2. Details of D.G. Sets if any like KVA rating fuel consumption in Kg/hr, Chimney height above roof level and dia to be furnished within 30 days. D.G. Sets and other noise generating machinery to be provided with Silencers /Mufflers to reduce the noise pollution.
3.	DG-set of capacity 250KVA	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	3. There shall be no smell or odour nuisance from the industry.
4.	DG-set of capacity 500KVA	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	4. There shall be no other sources of air pollution.
5.	DG-set of capacity 750KVA- I	14 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
6.	DG-set of capacity 750KVA- II	14 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
7.	DG-set of capacity 750KVA- III	14 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	

8.	DG-set of capacity 750KVA- IV	14 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	-do-
9.	DG-set of capacity 750KVA- V	14 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
10.	DG-set of capacity 30KVA- I	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
11.	DG-set of capacity 30KVA- II	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
12.	DG-set of capacity 30KVA- III	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
13.	DG-set of capacity 45KVA	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
14.	DG-set of capacity 25 KVA	3 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	
15.	DG-set of capacity 160 KVA	6 AGL m	SO ₂	---	Chimney as per Col. 4 with acoustic enclosure	At all times	

SENIOR ENVIRONMENTAL OFFICER

W. J. S.



Form 2 -[Rule 6(2)] Authorization under Hazardous & Other Wastes [Management & Transboundary Movement]Rules,2016

Authorization No: 332968

Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspeb.gov.in

(This document contains 3 pages excluding annexure)

Authorization No: 332968 **PCB ID:** 11931 **Date:** 30/08/2022

FORM FOR GRANT OR RENEWAL OF AUTHORISATION BY STATE POLLUTION CONTROL BOARD TO THE OCCUPIERS, RECYCLERS, REPROCESSORS, REUSERS, USER AND OPERATORS OF DISPOSAL FACILITIES

Ref: 1. Authorization application submitted by the industry/organization on 02/08/2022 at Regional Office.

2. Inspection of the project site/organization by Regional Officer , Mangalore on 04/08/2022
3. Proceedings of CCM dated: , held on:

1. Number of authorization 332968 and date of issue 30/08/2022

2. Reference of application No. 22220 Inward Date 02/08/2022

3. Chief Airport Officer of Ms. Mangaluru International Airport Limited is hereby granted an authorization based on the enclosed signed inspection report for Generation,Collection,Reception,Disposal or any other use of hazardous or other wastes or both on the premises situated at the location **Address:** Mangalore Airport , Bajpe **Industrial Area** : Mangalore , **Taluk** : Mangalore , **District** : Dakshina Kannada

Details of Authorization:

Category of Hazardous waste as per the Schedule I,II,III & IV of these rules	Description of Hazardous Waste	Quantity/Annum	Unit	Authorized Mode of Disposal or recycling or utilization or co-processing, etc.,
	33.1~Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	1.000	M.T	As Per Annexure
	5.1~Used Spent Oil	4.650	MTA	As Per Annexure
	5.2~Wastes Residues Containing Oil	0.500	M.T	As Per Annexure

1. The authorization shall be valid for a period upto 30/06/2026

A. General Conditions of authorization:

1. The authorized person shall comply with the provisions of the Environment (Protection) Act, 1986 and the Rules made there under.
2. The authorization or its renewal shall be produced for inspection at the request of an Officer authorized by the Karnataka State Pollution Control Board.



Form 2 -[Rule 6(2)] Authorization
under Hazardous & Other Wastes
[Management & Transboundary
Movement]Rules,2016

Authorization No: 332968

Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax:080-25586321
email id: ho@kspcb.gov.in

(This document contains 3 pages excluding annexure)

3. The person authorized shall not rent, lend, sell, transfer or otherwise transport the hazardous wastes and other wastes except what is permitted through this authorization and without obtaining prior permission of the KSPCB.
4. Any unauthorized change in personnel, equipment or working conditions as mentioned in the application by the person authorized shall constitute a breach of this authorization.
5. The person authorized shall implement Emergency Response Procedure (ERP) for which this authorization is being granted considering all site specific possible scenarios such as spillages, leakages, fire etc. and their possible impacts and also carry out mock drill in this regard at regular interval of time.
6. The person authorized shall comply with the provisions outlined in the Central Pollution Control Board guidelines on “Implementing Liabilities for Environmental Damages due to Handling and Disposal of Hazardous Waste and Penalty”.
7. It is the duty of the authorized person to take prior permission of the Karnataka State Pollution Control Board to close down the facility.
8. The imported hazardous and other wastes shall be fully insured for transit as well as for any accidental occurrence and its clean-up operation.
9. The importer or exporter shall bear the cost of import or export and mitigation of damages if any.
10. Any other conditions for compliance as per the Guidelines issued by the Ministry of Environment, Forest and Climate Change or Central Pollution Control Board from time to time.
11. An application for the renewal of an authorization shall be made **'3' months** before the date of expiry.
12. The Person authorized shall bring to the notice of the Board, if any increase in quantity, change in category and handling operation. In such cases, the authorized Person has to obtain fresh authorization.
13. Karnataka State Pollution Control Board reserves the right to review, impose additional condition or conditions, revoke, change or alter the terms and conditions of this authorization or to suspend or cancel this authorization.
14. The Person authorized shall take steps for reduction and prevention of the waste generated or for recycling or reuse.
15. The authorized person shall maintain the records at site in Form-3 and shall submit the annual returns in Form-4 within 30th June every year for the Period April to March and manifest in Form-10.
16. The record of consumption and fate of the imported hazardous and other wastes shall be maintained.
17. The hazardous and other waste which gets generated during recycling or reuse or recovery or per-processing or utilization of imported hazardous or other wastes shall be treated and disposed of as per



Form 2 -[Rule 6(2)] Authorization
under Hazardous & Other Wastes
[Management & Transboundary
Movement]Rules,2016

Authorization No: 332968

Valid upto: 30/06/2026

Karnataka State Pollution Control Board
Parisara Bhavana, No.49, Church
Street, Bengaluru-560001
Tele : 080-25589112/3, 25581383
Fax: 080-25586321
email id: ho@kspcb.gov.in

(This document contains 3 pages excluding annexure)

specific conditions of authorization.

18. The transportation of hazardous waste shall have to be carried out only through registered/authorized vehicles meant for transportation of hazardous waste.
19. The Person Authorized shall not store the Hazardous Waste more than ninety days as per Rule 8 (1).
20. The Person Authorized shall transport and store the raw materials in a manner so as not to cause any damage to environment, life and property. The applicant shall be solely responsible for any damages to environment.
21. Display Boards: The person authorized shall display sign boards at the storage site as "Hazardous Waste Storage Site" and "Danger" and the site shall be provided with accident preventive measures.

Additional Conditions:

The Occupier of the facility shall comply all terms and conditions stipulated in enclosed Annexure.

For and on behalf of the
Karnataka State Pollution Control Board

CHIEF/ SENIOR ENVIRONMENTAL OFFICER

COPY TO:

1. The Environmental Officer, KSPCB, Regional Office, for information and to inspect the industry during your next visit to the area.
2. Master copy (Dispatch).
3. Office copy.

Signature Not Verified

Digitally signed by

Date: 2022.08.30 13:53:52
+05:30



Karnataka Ground Water Authority

K.S.F.C Bhavan, Thimmaiah Road, Bengaluru- 560052, Karnataka.

E-mail: gwdkar@gmail.com, Ph No: 080-22268732

No: DE0011641972608

Dated : 02-02-2022

NO OBJECTION CERTIFICATE - FORM 3A RULE(6)

Permission For Digging/Drilling A Well/ Borewell/ Extraction Of Groundwater For Industrial/
Commercial/ Entertainment Or Other Use

M/s Adani Mangaluru International Airport Limited

*Adani Mangaluru International Airport Limited Bajpe Main Road,
Kenjar, Bajpe P.O, Mangaluru.*



Above Person/Company is permitted for extraction of groundwater at below mentioned location(s):

SL NO.	LOCATION
1	<i>19, Adani Mangaluru International Airport, Near exit , MANGALURU taluk</i>
2	<i>181, Adani Mangaluru International Airport, Near Harsh Construction Office, MANGALURU taluk</i>
3	<i>165, Adani Mangaluru International Airport, Near windsock, MANGALURU taluk</i>
4	<i>144, Adani Mangaluru International Airport, Opposite Bay 8, MANGALURU taluk</i>
5	<i>19, Adani Mangaluru International Airport, Near Domestic cargo, MANGALURU taluk</i>
6	<i>94, Adani Mangaluru International Airport, Near DVOR, MANGALURU taluk</i>
7	<i>77, Adani Mangaluru International Airport, Near MET station, MANGALURU taluk</i>
8	<i>78, Adani Mangaluru International Airport, Behind fire station, MANGALURU taluk</i>
9	<i>78, Adani Mangaluru International Airport, Beside NATS building, MANGALURU taluk</i>
10	<i>137, Adani Mangaluru International Airport, behind MT, MANGALURU taluk</i>
11	<i>19, Adani Mangaluru International Airport, Near OTB, MANGALURU taluk</i>

12	115, Adani Mangaluru International Airport, Near RADAR, MANGALURU taluk
13	115, Adani Mangaluru International Airport, Near CISF Barrack, MANGALURU taluk
14	119, Adani Mangaluru International Airport, Near NDB, MANGALURU taluk
15	67, Adani Mangaluru International Airport, Near Old runway, MANGALURU taluk

From (15) Bore Wells For Infrastructure Use, Subject To The Following Conditions :-

- ❖ The firm may abstract **600 m3/day** (not exceeding **219000 m3/year**) of groundwater through (15) bore wells only. No additional groundwater abstraction structures to be constructed for this purpose without prior approval of the KGWA.
- ❖ This NOC is valid for 5 years from the date of issue of this letter.
- ❖ As per the categorization of taluks, MANGALURU taluk in DAKSHINA KANNADA district fall under Safe taluk category. Hence, the Groundwater Abstraction/Restoration Charges to be paid is Rs. 1200 per day.
- ❖ The Firm at its own cost shall install piezometer/s, at suitable locations and execute groundwater regime monitoring programme in and around the project area on regular basis in consultation with the Senior Geologist, District Groundwater Office, Groundwater Directorate, **DAKSHINA KANNADA** District.

NO. OF PIEZOMETERS	MONITORING MECHANISM		
	MANUAL	DWLR	DWLR WITH TELEMETRY
2	0	1	1

- ❖ The firm shall submit the water audit report through certified auditors within three months of completion of the same to KGWA.
- ❖ The well should not be used for drawing water for any other use other than applied for.
- ❖ The withdrawal of water should be better managed to avoid wastage of water
- ❖ The utilized water should be recycled and reused after necessary treatment
- ❖ The construction of rain water harvesting structures in the vicinity of the well/ bore well shall be as per the technical opinion of Senior Geologist, District Groundwater Office, Groundwater Directorate, **DAKSHINA KANNADA** District.
- ❖ The utilization of water will be subject to the regulation from time to time based on the extraction of water from the well/bore well
- ❖ The pollution of groundwater resources should be avoided
- ❖ Water meter has to be installed and data on groundwater draft is to be maintained and submitted every month to the Authority concerned. The groundwater quality to be monitored twice in a year during pre-monsoon and post monsoon periods.
- ❖ **M/s Adani Mangaluru International Airport Limited** shall, in consultation with the Senior Geologist, District Groundwater Office, Groundwater Directorate, **DAKSHINA KANNADA** District, implement groundwater recharge measures for augmenting the groundwater resources of the area.
- ❖ The photographs of the recharge structures after completion of the same are to be furnished immediately to the Senior Geologist, District Groundwater Office, Groundwater Directorate, **DAKSHINA KANNADA** District, for verification.
- ❖ The abstraction/restoration charges should be deposited to the Karnataka Groundwater Authority account in the form of DD / Cash.
- ❖ The groundwater monitoring data in respect of Point No. 4 & 12 to be submitted to Senior Geologist,

District Groundwater Office, Groundwater Directorate, **DAKSHINA KANNADA** District on regular basis at least once in a year.

- ❖ The permission is liable to be cancelled in case of non-compliance of any of the conditions as mentioned in Point No. 1 to 15.
- ❖ The Karnataka Groundwater (Regulation for Protection of Sources of Drinking Water) Act, 1999 should be followed scrupulously.
- ❖ This NOC is subject to prevailing Central/State Government rules /laws or Court orders related to construction of bore well/ groundwater withdrawal /construction of recharge or conservation structures /discharge of effluents or any such matter as applicable.
- ❖ This NOC does not absolve the applicant / proponent of his obligation / requirement to obtain other statutory and administrative clearances from other statutory and administrative authorities.

BANK ACCOUNT DETAILS ARE GIVEN BELOW

Bank	: CANARA BANK
Account Holder	: CHAIRMAN, KGWA
Account No	: 0788201052332
IFSC	: CNRB0000788
Account Type	: CURRENT ACCOUNT

- ❖ It is also informed that during the renewal of the NOC, depending upon the hydrogeological condition the category of the area and the site conditions, the quantity will vary from permitted quantity. The company should make alternate arrangements for the reducing quantity for sustaining their industrial activity by means of availing water through local bodies or using the urban waste water after proper treatment.
- ❖ The fee that will be levied by the government for the groundwater usage is applicable from the date such orders are issued by the government.
- ❖ The firm is bound to obey the directions of NGT/ court orders that are existing and that may be laid down in future in matters related to Groundwater withdrawal.
- ❖ ADDITIONAL CONDITIONS : 1) M/s. Adani Mangaluru International Airport Limited is permitted to abstract 600m3/day (not exceeding 219000m3/year) of groundwater through Fifteen (15) existing bore wells. No additional groundwater abstraction structures to be constructed for this purpose without prior approval of the KGWA. 2) This NOC is valid for Five years from the date of issue of NOC. 3) As per the categorization of taluks, Mangaluru taluk in Dakshina Kannada district fall under safe taluk category. Hence, the Groundwater Abstraction Charges to be paid is Rs.1200 per day at the rate of Rs.2 per KLD. 4) The Firm at its own cost shall install two piezometers one with DWLR and the other with DWLR with Telemetry, at suitable locations and execute groundwater regime monitoring programme in and around the project area on regular basis in consultation with the Senior Geologist, District Groundwater Office, Groundwater Directorate, Dakshina Kannada District. 5) The firm shall submit the water audit report through certified auditors within one year of completion of the same to KGWA.

*This NOC has been issued as per the proceedings drawn from the meeting held under the Chairmanship of Deputy Commissioner, District Groundwater Committee, **DAKSHINA KANNADA** District on 24-12-2021 and the proceedings drawn from the Karnataka Groundwater Authority meeting held under the Chairmanship of Secretary & Chairman, Minor Irrigation and Groundwater Development Department and Karnataka Groundwater Authority on 21.01.2022..*

To,

M/S Adani Mangaluru International Airport Limited

Adani Mangaluru International Airport Limited Bajpe Main Road,

Kenjar, Bajpe P.O, Mangaluru.





Copy For Information To,

1. The Deputy Commissioner, DAKSHINA KANNADA District
2. Regional Director, Central Groundwater Board, SWR.
3. The Director, Groundwater Directorate and **Member** Secretary, Karnataka Groundwater Authority, KSFC Bhavana, Bengaluru
4. The Deputy Director, Groundwater Directorate, KSFC Bhavana, Bengaluru

Place : DAKSHINA KANNADA

Date : 02-02-2022

(E-SIGN SIGNATURE)

**Signature of Designated Officer
Karnataka Groundwater Authority**

Signature Not Verified

Digital signature by 
Date: 2022.02.15 14:11:06 IST
Reason: Digitally Signed

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22 To : Sep'22
Environment Management Plan		

Environmental Monitoring Plan

Sl. No.	Environmental Issues	Parameters	Locations	Frequency
1.	Ambient Noise Monitoring	Noise Level monitoring for Day & Night	Car Parking, Runway 6, OTB and NATS	Monthly
2.	Noise Monitoring – flight path	Continuous Noise Level monitoring for Day & Night	1. Kenjar 2. Pana College 3. Bailmantha	Once in a quarter
3.	DG Noise Monitoring	Noise Level	All DGs	Once in a quarter
4.	Ambient Air Quality Monitoring	PM 10, PM 2.5, SOx, NOx,	Car Parking, Runway 6, OTB and NATS	Weekly twice
5.	Ambient Air Quality Monitoring	CO, HC, Ozone, Lead (Pb), Ammonia (NH3), Benzene (C6H6), Benzo (a) Pyrene (BaP), Nickel (Ni) and Arsenic (As)	Car Parking, Runway 6, OTB and NATS	Once in a quarter
6.	DG set flue gas stack emission test	SO2, NO2, CO, CH4, Particulate Matter	All DGs	Once in 6 months
7.	STP treated water quality	PH, BOD, COD, SS, Nitrogen, Ammonical nitrogen, Fecal coliform	STP outlet	Once in a Month
8	Ground water Quality	As per drinking water standards IS 10500-2012	borewells	Quarterly

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

ISSUED TO:

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

Report Number : VLL/VLS/22/01163/001
 Issued Date : 2022.05.08
 P. Order Ref : 5700301699
 P.O. Date : 26.10.2021

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Runway 6 (Airside)

Page 1 of 1

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : APRIL 2022
 Sampling &Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.04.2022	32.1	68.1	21.1	24.8
06.04.2022	28.6	60.3	19.3	21.5
11.04.2022	29.6	58.4	20.6	23.3
13.04.2022	31.7	63.1	17.5	21.8
18.04.2022	29.0	68.3	20.1	24.1
20.04.2022	34.2	61.3	18.4	21.7
25.04.2022	30.8	59.8	20.9	23.5
27.04.2022	32.8	63.4	19.4	20.3
Minimum	28.6	58.4	17.5	20.3
Maximum	34.2	68.3	21.1	24.8
Average	31.1	62.8	19.7	22.4
98%ile	34.0	68.3	21.1	24.6
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Dr. SubbaReddyMallampati
 Group Leader-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

**ISSUED TO:**

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

Report Number : VLL/VLS/22/01163/002
 Issued Date : 2022.05.08
 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Car Parking Area

Page 1 of 1

Frequency Of Sampling	Weekly Twice
Time Weighted Average	24 Hours
Month of Monitoring	APRIL 2022
Sampling & Analysis Method	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO ₂ - IS:5182 P2 & NO ₂ - IS:5182 P-6;
Test Required	PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by Vimta labs ltd	

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.04.2022	33.2	70.2	17.3	20.8
06.04.2022	31.0	64.7	20.3	23.3
11.04.2022	29.4	67.2	21.0	23.1
13.04.2022	33.0	66.2	18.4	21.7
18.04.2022	36.4	65.4	19.2	21.0
20.04.2022	34.9	60.3	22.0	25.3
25.04.2022	31.3	67.1	18.0	23.5
27.04.2022	34.5	65.3	19.5	22.5
Minimum	29.4	60.3	17.3	20.8
Maximum	36.4	70.2	22.0	25.3
Average	33.0	65.8	19.5	22.7
98%ile	36.2	69.8	21.9	25.0
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Dr. SubbaReddyMallampati
 Group Leader-Environment

ISSUED TO:

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

Report Number : VLL/VLS/22/01163/003
 Issued Date : 2022.05.08
 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Old Terminal Building

Page 1 of 1

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: APRIL 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by Vimta labs ltd	

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.04.2022	33.3	65.3	17.4	19.4
06.04.2022	30.2	61.1	18.2	22.7
11.04.2022	32.1	59.4	15.7	18.4
13.04.2022	28.8	62.6	17.9	21.6
18.04.2022	29.6	64.3	16.7	20.9
20.04.2022	28.7	60.6	18.3	21.6
25.04.2022	32.9	57.8	13.8	17.7
27.04.2022	33.1	65.3	18.5	22.4
Minimum	28.7	57.8	13.8	17.7
Maximum	33.3	65.3	18.5	22.7
Average	31.1	62.1	17.1	20.6
98%ile	33.3	65.3	18.5	22.7
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³



Dr. SubbaReddyMallampati
 Group Leader-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

**ISSUED TO:**

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

Report Number : VLL/VLS/22/01163/004
 Issued Date : 2022.05.08
 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near NATS Building

Page 1 of 1

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: APRIL 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO ₂ - IS:5182 P2 & NO ₂ - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by Vimta labs ltd	

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.04.2022	32.7	58.3	13.2	19.5
06.04.2022	29.6	62.3	16.3	20.9
11.04.2022	28.3	64.0	17.2	21.4
13.04.2022	31.8	61.3	14.7	19.5
18.04.2022	30.6	59.4	17.0	19.3
20.04.2022	33.3	58.2	14.3	17.2
25.04.2022	30.6	63.5	16.7	20.1
27.04.2022	34.3	60.8	15.1	18.3
Minimum	28.3	58.2	13.2	17.2
Maximum	34.3	64.0	17.2	21.4
Average	31.4	61.0	15.6	19.5
98%le	34.2	63.9	17.2	21.3
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Dr. Subba Reddy Mallampati
 Group Leader-Environment

ISSUED TO:

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

Report Number :
 Issued Date :
 P. Order Ref :
 P.O. Date :

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Runway 6 (Airside)**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: MAY 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by Vimta labs ltd	

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
03.05.2022	29.5	62.4	17.4	22.5
05.05.2022	31.5	65.7	18.1	20.4
10.05.2022	33.4	61.4	19.4	21.4
12.05.2022	28.6	65.2	16.3	19.9
17.05.2022	30.8	66.4	18.9	20.5
19.05.2022	32.9	63.4	20.2	23.5
23.05.2022	33.8	66.7	19.7	21.6
25.05.2022	31.8	65.5	18.2	22.4
Minimum	28.6	61.4	16.3	19.9
Maximum	33.8	66.7	20.2	23.5
Average	31.5	64.6	18.5	21.5
98%ile	33.7	66.7	20.1	23.4
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³



Dr. SubbaReddy Mallampati
Dy. Manager

ISSUED TO:

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

Report Number : VLL/VLS/22/02952/002
 Issued Date : 2022.06.03
 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Car Parking Area**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: MAY 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,

Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
03.05.2022	35.0	63.4	16.1	18.9
05.05.2022	32.8	66.8	19.1	21.4
10.05.2022	31.2	69.3	18.4	21.0
12.05.2022	37.2	71.4	21.3	24.3
17.05.2022	32.5	67.5	18.0	19.1
19.05.2022	34.0	63.2	20.8	24.5
23.05.2022	33.1	69.2	16.8	21.6
25.05.2022	36.3	67.4	17.4	20.6
Minimum	31.2	63.2	16.1	18.9
Maximum	37.2	71.4	21.3	24.5
Average	34.0	67.3	18.5	21.4
98%le	37.1	71.1	21.2	24.5
NAQ Standard	60	100	80	80

All the above values are expressed in µg/m³


Dr. SubbaReddy Mallampati
 Dy. Manager

ISSUED TO:

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 KENJAR HC,
 KARNATAKA 574142.

Report Number : VLL/VLS/22/02952/003
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 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Old Terminal Building**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: MAY 2022
Sampling &Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,

Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
03.05.2022	31.6	62.4	15.3	17.5
05.05.2022	32.1	66.3	17.0	20.8
10.05.2022	33.9	61.5	16.4	19.3
12.05.2022	30.6	64.7	14.3	19.7
17.05.2022	34.2	66.4	15.5	17.8
19.05.2022	30.5	59.3	16.4	19.7
23.05.2022	34.7	63.2	14.6	15.8
25.05.2022	31.5	67.4	17.3	20.5
Minimum	30.5	59.3	14.3	15.8
Maximum	34.7	67.4	17.3	20.8
Average	32.4	63.9	15.9	18.9
98%le	34.6	67.3	17.3	20.8
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³



Dr. SubbaReddy Mallampati
 Dy. Manager

ISSUED TO:

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**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near NATS Building**

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : **MAY 2022**
 Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS ($\mu\text{g}/\text{m}^3$)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
03.05.2022	35.3	62.4	15.3	17.6
05.05.2022	32.5	56.3	13.5	15.3
10.05.2022	30.1	65.7	16.0	20.3
12.05.2022	34.2	63.4	13.5	17.6
17.05.2022	32.4	58.1	15.8	18.3
19.05.2022	27.5	60.3	13.1	21.1
23.05.2022	32.4	65.6	14.2	18.2
25.05.2022	31.6	63.1	13.9	16.4
Minimum	27.5	56.3	13.1	15.3
Maximum	35.3	65.7	16.0	21.1
Average	32.0	61.9	14.4	18.1
98%le	35.1	65.7	16.0	21.0
NAAQ Standard	60	100	80	80

All the above values are expressed in $\mu\text{g}/\text{m}^3$



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**ISSUED TO:**

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Report Number : VLL/VLS/22/04667/001
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 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

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SAMPLE PARTICULARS		AMBIENT AIR QUALITY MONITORING @ Near Runway 6 (Airside)
Frequency Of Sampling	:	Weekly Twice
Time Weighted Average	:	24 Hours
Month of Monitoring	:	June 2022
Sampling & Analysis Method	:	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	:	PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by Vimta labs ltd		

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.06.2022	31.0	65.3	15.8	19.5
03.06.2022	27.9	62.4	16.9	21.3
06.06.2022	34.9	63.3	17.3	19.8
08.06.2022	30.2	60.5	18.1	22.6
13.06.2022	27.8	63.2	17.7	20.8
15.06.2022	29.5	61.6	18.3	21.5
21.06.2022	31.1	64.9	17.7	20.4
23.06.2022	32.8	63.7	19.4	22.1
27.06.2022	28.4	58.3	17.5	20.7
29.06.2022	31.6	62.8	18.2	21.3
Minimum	27.8	58.3	15.8	19.5
Maximum	34.9	65.3	19.4	22.6
Average	30.5	62.6	17.7	21.0
98%ile	34.5	65.2	19.2	22.5
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Dr. SubbaReddy Mallampati
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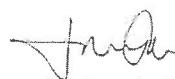
SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Car Parking Area

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : June 2022
 Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS ($\mu\text{g}/\text{m}^3$)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.06.2022	32.6	65.3	14.9	17.3
03.06.2022	34.3	70.5	17.9	19.8
06.06.2022	36.7	67.3	19.1	19.4
08.06.2022	34.1	67.3	20.1	22.7
13.06.2022	30.7	69.4	16.8	18.4
15.06.2022	32.6	61.4	17.4	25.9
21.06.2022	31.7	67.4	18.0	23.8
23.06.2022	34.9	65.6	20.6	22.0
27.06.2022	29.7	63.4	17.7	20.5
29.06.2022	32.1	61.4	19.5	23.1
Minimum	29.7	61.4	14.9	17.3
Maximum	36.7	70.5	20.6	25.9
Average	32.9	65.9	18.2	21.3
98%ile	36.4	70.3	20.5	25.5
NAAQ Standard	60	100	80	80

All the above values are expressed in $\mu\text{g}/\text{m}^3$



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**ISSUED TO:**

M/S. MANGALURU INTERNATIONAL AIRPORT LIMITED.,
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 KARNATAKA 574142.

Report Number : VLL/VLS/22/04667/003
 Issued Date : 2022.07.04
 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Old Terminal Building

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : June 2022
 Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS ($\mu\text{g}/\text{m}^3$)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.06.2022	29.4	64.3	13.8	15.3
03.06.2022	31.6	61.7	16.0	18.3
06.06.2022	35.4	63.4	15.2	17.7
08.06.2022	32.1	65.2	13.1	18.1
13.06.2022	35.7	65.2	16.2	17.3
15.06.2022	29.6	57.5	17.6	19.2
21.06.2022	32.8	61.4	15.8	17.2
23.06.2022	33.1	65.6	17.4	19.6
27.06.2022	28.5	61.7	15.3	17.3
29.06.2022	30.4	62.4	17.1	19.6
Minimum	28.5	57.5	13.1	15.3
Maximum	35.7	65.6	17.6	19.6
Average	31.9	62.8	15.8	18.0
98%le	35.6	65.5	17.6	19.6
NAAQ Standard	60	100	80	80

All the above values are expressed in $\mu\text{g}/\text{m}^3$

Dr. SubbaReddy Mallampati
 Dy. Manager-Environment

ISSUED TO:

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 BAJPE MAIN RD,
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Report Number : VLL/VLS/22/04667/004
 Issued Date : 2022.07.04
 P. Order Ref : 5700301699
 P.O. Date : 26.11.2021

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near NATS Building

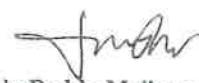
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: June 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,

Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.06.2022	32.9	64.3	13.5	16.0
03.06.2022	33.6	58.2	12.3	17.2
06.06.2022	28.1	62.2	14.8	18.7
08.06.2022	32.5	60.9	12.3	16.0
13.06.2022	30.8	60.0	14.6	15.8
15.06.2022	26.1	58.5	13.3	18.1
21.06.2022	29.9	63.8	15.4	19.6
23.06.2022	28.6	59.2	12.8	14.7
27.06.2022	30.1	63.1	13.4	19.3
29.06.2022	26.8	58.9	15.5	20.1
Minimum	26.1	58.2	12.3	14.7
Maximum	33.6	64.3	15.5	20.1
Average	29.9	60.9	13.8	17.6
98%le	33.5	64.2	15.5	20.0
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³


 Dr. SubbaReddy Mallampati
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Report Number : VLL/VLS/22/06627/001
Issued Date : 2022.08.04
P. Order Ref : 5700312428
P.O. Date : 20.07.2022

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY MONITORING**
@ Near Runway 6 (Airside)

Page 1 of 1

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: July 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by	Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.07.2022	28.5	59.3	17.0	21.2
06.07.2022	32.8	63.7	19.1	23.5
11.07.2022	29.2	57.5	18.7	22.0
13.07.2022	26.1	63.1	16.8	21.9
18.07.2022	30.5	58.3	19.1	22.7
20.07.2022	32.1	59.5	20.1	23.5
25.07.2022	32.3	62.8	19.1	22.1
27.07.2022	28.4	60.2	18.3	20.6
Minimum	26.1	57.5	16.8	20.6
Maximum	32.8	63.7	20.1	23.5
Average	30.0	60.6	18.5	22.2
98%le	32.7	63.6	20.0	23.5
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

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Report Number : VLL/VLS/22/06627/002
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 P. Order Ref : 5790312428
 P.O. Date : 20.07.2022

Page 1 of 1

**SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Car Parking Area**

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: July 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,

Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.07.2022	29.3	62.1	17.1	21.4
06.07.2022	32.5	67.3	18.3	23.1
11.07.2022	30.6	59.3	21.5	24.1
13.07.2022	32.3	64.7	18.9	19.3
18.07.2022	34.8	62.7	19.1	24.5
20.07.2022	30.8	67.1	21.8	26.2
25.07.2022	33.1	65.3	19.4	21.6
27.07.2022	30.4	68.7	18.5	24.1
Minimum	29.3	59.3	17.1	19.3
Maximum	34.8	68.7	21.8	26.2
Average	31.7	64.7	19.3	23.0
98%ile	34.6	68.5	21.8	26.0
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

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 P.O. Date : 20.07.2022

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Old Terminal Building

Page 1 of 1

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: July 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO ₂ - IS:5182 P2 & NO ₂ - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by Vimta labs ltd	

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.07.2022	33.1	58.2	15.2	19.3
06.07.2022	27.1	63.2	14.7	16.3
11.07.2022	32.7	60.1	16.6	20.9
13.07.2022	29.5	63.1	14.5	16.3
18.07.2022	33.9	56.7	15.5	18.3
20.07.2022	30.7	63.2	16.0	20.9
25.07.2022	33.7	57.6	14.8	18.5
27.07.2022	29.5	62.2	15.7	16.8
Minimum	27.1	56.7	14.5	16.3
Maximum	33.9	63.2	16.6	20.9
Average	31.3	60.5	15.4	18.4
98%ile	33.9	63.2	16.5	20.9
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

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 Issued Date : 2022.08.04
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near NATS Building

Page 1 of 1

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : July 2022
 Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 &
 NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS ($\mu\text{g}/\text{m}^3$)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
04.07.2022	30.2	60.3	15.1	18.3
06.07.2022	28.1	62.1	13.7	15.4
11.07.2022	31.6	57.3	15.8	21.8
13.07.2022	29.7	61.3	15.0	17.7
18.07.2022	27.3	56.3	13.5	16.1
20.07.2022	30.5	62.3	14.7	17.1
25.07.2022	28.1	57.2	13.1	15.2
27.07.2022	31.5	61.6	14.2	20.2
Minimum	27.3	56.3	13.1	15.2
Maximum	31.6	62.3	15.8	21.8
Average	29.6	59.8	14.4	17.7
98%le	31.6	62.3	15.7	21.6
NAAQ Standard	60	100	80	80

All the above values are expressed in $\mu\text{g}/\text{m}^3$

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/08033/001
 Issued Date : 2022.09.02
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Runway 6 (Airside)

Page 1 of 1

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: August 2022
Sampling &Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by	Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.08.2022	31.2	62.3	19.4	23.1
03.08.2022	26.9	57.2	17.4	20.8
08.08.2022	33.2	61.4	15.8	19.5
10.08.2022	30.1	58.9	18.6	23.8
16.08.2022	28.9	61.2	20.9	24.6
18.08.2022	29.6	63.0	17.8	21.5
22.08.2022	32.7	58.3	18.2	24.0
24.08.2022	30.2	65.1	20.0	19.4
29.08.2022	27.4	55.7	17.5	22.4
Minimum	26.9	55.7	15.8	19.4
Maximum	33.2	65.1	20.9	24.6
Average	30.0	60.3	18.4	22.1
98%le	33.1	64.8	20.8	24.5
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

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**ISSUED TO:**

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 KARNATAKA 574142.

Report Number : VLL/VLS/22/08033/002
 Issued Date : 2022.09.02
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Car Parking Area

Page 1 of 1

Frequency Of Sampling	Weekly Twice
Time Weighted Average	24 Hours
Month of Monitoring	August 2022
Sampling & Analysis Method	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by Vimta labs ltd	

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.08.2022	33.7	58.4	20.3	24.3
03.08.2022	30.4	64.9	17.7	21.5
08.08.2022	28.4	62.8	18.6	22.6
10.08.2022	31.6	59.4	22.6	25.3
16.08.2022	33.6	60.3	19.6	23.7
18.08.2022	29.3	67.2	18.4	21.6
22.08.2022	35.2	62.9	20.9	23.4
24.08.2022	27.5	65.7	18.4	24.1
29.08.2022	32.6	61.2	16.9	20.6
Minimum	27.5	58.4	16.9	20.6
Maximum	35.2	67.2	22.6	25.3
Average	31.4	62.5	19.2	23.0
98%ile	35.0	67.0	22.3	25.1
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Dr. Subba Reddy Mallampati
 Dy. Manager-Environment

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M/S. MANGALURU INTERNATIONAL AIRPORT
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Report Number : VLL/VLS/22/08033/003
 Issued Date : 2022.09.02
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Old Terminal Building

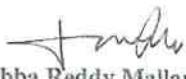
Page 1 of 1

Frequency Of Sampling	Weekly Twice
Time Weighted Average	24 Hours
Month of Monitoring	August 2022
Sampling & Analysis Method	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by	Vimta labs ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.08.2022	28.5	63.2	17.0	22.1
03.08.2022	30.7	57.4	18.1	20.8
08.08.2022	31.8	63.0	16.9	19.4
10.08.2022	27.4	60.2	16.3	18.2
16.08.2022	25.3	63.7	18.0	22.5
18.08.2022	35.6	58.3	17.8	19.2
22.08.2022	28.4	60.5	16.6	20.4
24.08.2022	31.3	56.4	17.5	22.5
29.08.2022	28.4	59.7	16.4	19.9
Minimum	25.3	56.4	16.3	18.2
Maximum	35.6	63.7	18.1	22.5
Average	29.7	60.3	17.2	20.6
98%le	35.0	63.6	18.1	22.5
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³


 Dr. Subba Reddy Mallampati
 Dy. Manager-Environment

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 KARNATAKA 574142.

Report Number : VLL/VLS/22/08033/004
 Issued Date : 2022.09.02
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near NATS Building

Page 1 of 1

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : August 2022
 Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 &
 NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs Ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.08.2022	26.4	55.3	16.6	20.3
03.08.2022	31.5	59.2	15.2	18.3
08.08.2022	27.3	60.4	14.8	16.4
10.08.2022	30.2	58.9	16.9	19.5
16.08.2022	26.4	61.8	14.6	17.9
18.08.2022	29.1	57.4	15.3	19.2
22.08.2022	31.6	60.7	16.2	20.2
24.08.2022	27.5	56.4	15.7	18.5
29.08.2022	32.1	62.7	13.8	16.8
Minimum	26.4	55.3	13.8	16.4
Maximum	32.1	62.7	16.9	20.3
Average	29.1	59.2	15.5	18.6
98%ile	32.0	62.6	16.9	20.3
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Dr. Subba Reddy Mallampati
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Report Number : VLL/VLS/22/09425/001
 Issued Date : 2022.10.06
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

Page 1 of 1

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Runway 6 (Airsde)

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : September 2022
 Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 &
 NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs Ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.09.2022	28.1	58.3	21.2	25.1
05.09.2022	25.4	63.2	18.9	22.6
07.09.2022	30.6	62.7	20.1	23.2
12.09.2022	32.2	61.4	17.4	18.6
14.09.2022	30.6	60.3	22.4	25.4
19.09.2022	31.7	58.5	19.3	23.6
21.09.2022	28.3	62.1	16.5	20.5
26.09.2022	29.5	56.7	19.4	22.3
28.09.2022	31.7	61.8	21.4	25.3
Minimum	25.4	56.7	16.5	18.6
Maximum	32.2	63.2	22.4	25.4
Average	29.8	60.6	19.6	23.0
98%ile	32.1	63.1	22.2	25.4
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³


 Sivakumar Madireddy
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**ISSUED TO:**

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LIMITED.,
BAJPE MAIN RD,
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KARNATAKA 574142.

Report Number : VLL/VLS/22/09425/002
Issued Date : 2022.10.06
P. Order Ref : 5700312428
P.O. Date : 20.07.2022

SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
@ Near Car Parking Area

Page 1 of 1

Frequency Of Sampling	Weekly Twice
Time Weighted Average	24 Hours
Month of Monitoring	September 2022
Sampling & Analysis Method	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ ,
Sample collected by	Vimta Labs Ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.09.2022	30.5	60.9	20.8	22.8
05.09.2022	34.2	57.3	19.2	23.6
07.09.2022	31.7	65.3	20.1	24.7
12.09.2022	27.5	61.9	18.3	21.6
14.09.2022	32.5	62.8	21.1	25.8
19.09.2022	31.4	59.4	23.7	23.7
21.09.2022	26.5	65.4	17.5	21.7
26.09.2022	29.6	59.5	19.9	26.2
28.09.2022	34.7	63.7	18.4	21.4
Minimum	26.5	57.3	17.5	21.4
Maximum	34.7	65.4	23.7	26.2
Average	31.0	61.8	19.9	23.5
98%ile	34.6	65.4	23.3	26.1
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Sivakumar Madireddy
Group Leader-Environment

ISSUED TO:

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

Report Number : VLL/VLS/22/09425/003
 Issued Date : 2022.10.06
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

Page 1 of 1

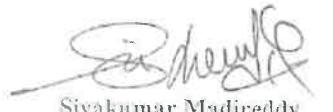
SAMPLE PARTICULARS : AMBIENT AIR QUALITY MONITORING
 @ Near Old Terminal Building

Frequency Of Sampling : Weekly Twice
 Time Weighted Average : 24 Hours
 Month of Monitoring : September 2022
 Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 &
 NO2 - IS:5182 P-6;
 Test Required : PM₁₀, PM_{2.5}, SO₂ and NO₂,
 Sample collected by Vimta labs Ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.09.2022	33.1	56.3	15.4	18.5
05.09.2022	28.3	59.9	16.3	21.5
07.09.2022	33.9	55.7	14.8	17.0
12.09.2022	29.5	53.2	17.8	20.3
14.09.2022	27.4	58.9	15.6	18.6
19.09.2022	31.7	61.6	19.3	20.8
21.09.2022	30.5	56.3	14.9	16.9
26.09.2022	33.4	58.9	16.7	17.4
28.09.2022	30.5	55.8	15.8	18.7
Minimum	27.4	53.2	14.8	16.9
Maximum	33.9	61.6	19.3	21.5
Average	30.9	57.4	16.3	18.9
98%ile	33.8	61.3	19.1	21.4
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³



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Report Number : VLL/VLS/22/09425/004
Issued Date : 2022.10.06
P. Order Ref : 5700312428
P.O. Date : 20.07.2022

Page 1 of 1

SAMPLE PARTICULARS : **AMBIENT AIR QUALITY MONITORING**
@ Near NATS Building

Frequency Of Sampling	Weekly Twice
Time Weighted Average	24 Hours
Month of Monitoring	September 2022
Sampling & Analysis Method	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO ₂ - IS:5132 P2 & NO ₂ - IS:5182 P-6;
Test Required	PM ₁₀ , PM _{2.5} , SO ₂ and NO ₂ .
Sample collected by	Vimta labs Ltd

TEST REPORT

Date of Sampling	RESULTS (µg/m ³)			
	Particulates Matter as PM _{2.5}	Particulates Matter as PM ₁₀	Sulphur Dioxide as SO ₂	Nitrogen Dioxide as NO ₂
01.09.2022	29.4	63.2	18.1	22.4
05.09.2022	34.0	57.5	16.7	20.1
07.09.2022	31.6	64.3	16.3	18.5
12.09.2022	28.5	61.4	18.4	21.6
14.09.2022	30.7	64.3	16.1	20.0
19.09.2022	25.5	59.9	16.8	21.3
21.09.2022	33.7	63.2	18.4	22.3
26.09.2022	30.8	58.9	17.2	20.6
28.09.2022	28.5	60.6	16.4	22.2
Minimum	25.5	57.5	16.1	18.5
Maximum	34.0	64.3	18.4	22.4
Average	30.3	61.5	17.2	21.0
98%le	34.0	64.3	18.4	22.4
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

Sivakumar Madireddy
Group Leader-Environment

ISSUED TO

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 KARNATAKA 574142

Report Number : VLL/VLS/22/04667/014
 Issue Date : 2022.07.05
 P.O. Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-21
Analysis Starting Date :	2022-06-23
Sampling Duration (minutes)	1440
Sampling Location :	Near Runway 6 (Airside)

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	64.9	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	31.1	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	17.7	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	20.4	80
5	Ozone (O ₃)	µg/m ³	Method-411	11.2	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.524	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	µg/m ³	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	NA
11	Benzene (C ₆ H ₆)	ng/m ³	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	µg/m ³ ng/m ³	USEPA 8270D	BDL	NA

Remarks:

Carbon Monoxide detectable Limit 10 µg/m³

Lead Detectable Limit 0.01 µg/m³

Arsenic and Nickel Detectable Limit 2 ng/m³

Benzene Detectable Limit 2 µg/m³

B(a)P Detectable Limit 0.2 ng/m³


 Dr. SubbaReddy Mallampati
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M/S MANGALURU INTERNATIONAL AIRPORT
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 BAJPE MAIN RD, KENJAR H.C,
 KARNATAKA 574142

Report Number : VLL/VLS/22/04667/015
 Issue Date : 2022.07.05
 P.O. Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-21
Analysis Starting Date :	2022-06-23
Sampling Duration (minutes)	1440
Sampling Location :	Near Car Parking Area

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	67.4	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	31.7	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	18.0	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	23.8	80
5	Ozone (O ₃)	µg/m ³	Method-411	12.4	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.502	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	µg/m ³	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	NA
11	Benzene (C ₆ H ₆)	ng/m ³	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	µg/m ³ ng/m ³	USEPA 8270D	BDL	NA

Remarks:

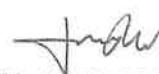
Carbon Monoxide detectable Limit 10µg/m³

Lead Detectable Limit 0.01µg/m³

Arsenic and Nickel Detectable Limit 2ng/m³

Benzene Detectable Limit 2 µg/m³

B(a)P Detectable Limit 0. 2ng/m³


Dr. SubbaReddy Mallampati
 Dy. Manager-Environment

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 BAJPE MAIN RD, KENJAR HC,
 KARNATAKA 574142

Report Number : VLL/VLS/22/04667/016
 Issue Date : 2022.07.05
 P.O. Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-21
Analysis Starting Date :	2022-06-23
Sampling Duration (minutes)	1440
Sampling Location :	Old Terminal Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	61.4	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	32.8	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	15.8	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	17.2	80
5	Ozone (O ₃)	µg/m ³	Method-411	9.6	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.447	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	µg/m ³	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	NA
11	Benzene (C ₆ H ₆)	ng/m ³	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	µg/m ³ ng/m ³	USEPA 8270D	BDL	NA

Remarks

Carbon Monoxide detectable Limit 10µg/m³
 Lead Detectable Limit 0.01µg/m³
 Arsenic and Nickel Detectable Limit 2ng/m³
 Benzene Detectable Limit 2 µg/m³
 B(a)P Detectable Limit 0. 2ng/m³

Dr. SubbaReddy Mallampati
 Dy. Manager-Environment

ISSUED TO

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

Report Number : VLL/VLS/22/04667/017
 Issue Date : 2022.07.05
 P.O. Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-06-21
Analysis Starting Date :	2022-06-23
Sampling Duration (minutes)	1440
Sampling Location :	Near NATS Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	63.8	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	29.9	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	15.4	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	19.6	80
5	Ozone (O ₃)	µg/m ³	Method-411	8.8	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.421	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	µg/m ³	IS-5182 (Part-22)	BDL	NA
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	NA
11	Benzene (C ₆ H ₆)	ng/m ³	ASTM D 3686-95	BDL	NA
12	Benzo (A) Pyrene (BaP)	µg/m ³ ng/m ³	USEPA 8270D	BDL	NA

Remarks:

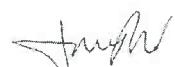
Carbon Monoxide detectable Limit 10µg/m³

Lead Detectable Limit 0.01µg/m³

Arsenic and Nickel Detectable Limit 2ng/m³

Benzene Detectable Limit 2 µg/m³

B(a)P Detectable Limit 0. 2ng/m³


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Report Number : VLL/VLS/22/09425/014
Issue Date : 2022.10.06
P.O. Ref : 5700312428
P.O. Date : 20.07.2022

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-14
Analysis Starting Date :	2022-09-16
Sampling Duration (minutes)	1440
Sampling Location :	Near Runway 6 (Airside)

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	60.3	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	30.6	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	22.4	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	25.4	80
5	Ozone (O ₃)	µg/m ³	Method-411	13.2	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.511	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

RemarksCarbon Monoxide detectable Limit 10µg/m³Lead Detectable Limit 0.01µg/m³Arsenic and Nickel Detectable Limit 2ng/m³Benzene Detectable Limit 2 µg/m³B(a)P Detectable Limit 0.2ng/m³

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Report Number : VLL/VLS/22/09425/015
 Issue Date : 2022.10.06
 P.O. Ref : 5790312428
 P.O. Date : 20.07.2022

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-14
Analysis Starting Date :	2022-09-16
Sampling Duration (minutes)	1440
Sampling Location :	Near Car Parking Area

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	62.8	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	32.5	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	21.1	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	25.8	80
5	Ozone (O ₃)	µg/m ³	Method-411	14.2	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.531	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

RemarksCarbon Monoxide detectable Limit 10µg/m³Lead Detectable Limit 0.01µg/m³Arsenic and Nickel Detectable Limit 2ng/m³Benzene Detectable Limit 2 µg/m³B(a)P Detectable Limit 0. 2ng/m³

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Report Number : VLL/VLS/22/09425/016
 Issue Date : 2022.10.06
 P.O. Ref : 5700312428
 P.O. Date : 20.07.2022

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-14
Analysis Starting Date :	2022-09-16
Sampling Duration (minutes)	1440
Sampling Location :	Old Terminal Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	58.9	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	27.4	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	15.6	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	18.6	80
5	Ozone (O ₃)	µg/m ³	Method-411	10.3	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.463	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

RemarksCarbon Monoxide detectable Limit 10µg/m³Lead Detectable Limit 0.01µg/m³Arsenic and Nickel Detectable Limit 2ng/m³Benzene Detectable Limit 2 µg/m³B(a)P Detectable Limit 0. 2ng/m³

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Report Number : VLL/VLS/22/09425/017
 Issue Date : 2022.10.06
 P.O. Ref : 5700312428
 P.O. Date : 20.07.2022

Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO ₂ , Nitrogen dioxides as NO ₂ ,Ozone (O ₃),Carbon monoxide (CO),Ammonia (NH ₃),Lead (Pb),Arsenic (As),Nickel (Ni),Benzene (C ₆ H ₆) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-09-14
Analysis Starting Date :	2022-09-16
Sampling Duration (minutes)	1440
Sampling Location :	Near NATS Building

TEST REPORT

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m ³	IS-5182(P-23)	64.3	100
2	Particulate Matter as PM2.5	µg/m ³	IS-5182(P-24)	30.7	60
3	Sulphur dioxide as SO ₂	µg/m ³	IS-5182 (Part-02)	16.1	80
4	Nitrogen dioxide as NO ₂	µg/m ³	IS-5182 (Part-06)	20.0	80
5	Ozone (O ₃)	µg/m ³	Method-411	10.0	100
6	Carbon monoxide (CO)	mg/m ³	IS-5182 (Part-10)	0.438	02
7	Ammonia (NH ₃)	µg/m ³	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m ³	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m ³	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m ³	IS-5182 (Part-22)	BDL	20
11	Benzene (C ₆ H ₆)	µg/m ³	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m ³	USEPA 8270D	BDL	01

Remarks:

Carbon Monoxide detectable Limit 10µg/m³Lead Detectable Limit 0.01µg/m³Arsenic and Nickel Detectable Limit 2ng/m³Benzene Detectable Limit 2 µg/m³B(a)P Detectable Limit 0. 2ng/m³

 Sivakumar Madireddy
 Group Leader-Environment

ISSUED TO:

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

Report Number : VLL/VLS/21/00647/001
 Issued Date : 2022.04.14
 P. Order Ref : 5700301699
 P. Order Date : 26.10.2021

Page 1 of 1

SAMPLE PARTICULARS	:	DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED	:	NITB Building
Sampling Date	:	2022.04.09
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	APRIL 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	149	137	146	121	--
5	Velocity of the Flue gas	m/Sec		10.7	10.2	9.8	8.0	--
6	Volumetric Flow rate	Nm ³ /hr		2593	2472	2375	215	--
Chemical Parameters								
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	26.3	20.6	24.0	18.0	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		71.19	58.47	66.05	23.64	≤ 3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr		0.246	0.193	0.209	0.127	
10	Oxides of Nitrogen @ 15% O ₂	mg/Nm ³		185.78	151.82	214.23	111.20	
	Oxides of Nitrogen @ 15% O ₂	gr/kw-hr		0.642	0.500	0.678	0.599	NOx + HC ≤ 4.0
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/ Nm ³		1.30	1.51	2.14	3.43	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr		0.004	0.005	0.007	0.018	
12	Particulate Matter @ 15% O ₂	mg/ Nm ³	USEPA M-5	18.09	15.99	18.30	10.67	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.063	0.053	0.058	0.057	

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



Dr. SubbaReddyMallampati
 Group Leader-Environment

ISSUED TO:

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

Report Number : VLL/VLS/21/00647/002
 Issued Date : 2022.04.14
 P. Order Ref : 5700301699
 P. Order Date : 26.10.2021

Page 1 of 1

SAMPLE PARTICULARS	:	DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED	:	OLD AIRPORT TERMINAL
Sampling Date	:	2022.04.09
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	APRIL 2022

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	°C	USEPA M-2	128	120	106	--
5	Velocity of the Flue gas	m/Sec		11.2	9.3	6.3	--
6	Volumetric Flow rate	Nm ³ /hr		2714	2253	170	--
Chemical Parameters							
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	20.9	15.4	14.6	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		72.86	58.22	40.42	≤ 3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr		0.395	0.525	0.229	
10	Oxides of Nitrogen @ 15% O ₂	mg/Nm ³		178.09	130.09	90.87	NOx + HC ≤ 4.0
	Oxides of Nitrogen @ 15% O ₂	gr/kw-hr		0.967	1.173	0.514	
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/ Nm ³		1.16	2.48	1.99	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr		0.006	0.022	0.011	
12	Particulate Matter @ 15% O ₂	mg/ Nm ³	USEPA M-5	15.99	9.38	7.09	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.087	0.085	0.040	

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



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Report Number : VLL/VLS/21/00647/003
Issued Date : 2022.04.14
P. Order Ref : 5700301699
P. Order Date : 26.10.2021

SAMPLE PARTICULARS	:	DIESEL GENERATOR EMISSION MONITORING
PLACE OF DG SET INSTALLED	:	NATS BUILDING
Sampling Date	:	2022.04.08
Frequency of Monitoring	:	Half Yearly
Monitoring Month	:	APRIL 2022
Sample Collected by Vimta Labs Ltd.		

Page 1 of 1

TEST REPORT

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameters						
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	138	132	--
5	Velocity of the Flue gas	m/Sec		12.6	11.7	--
6	Volumetric Flow rate	Nm ³ /hr		3053	2835	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	16.6	18.3	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		74.75	71.99	≤ 3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr		0.304	0.272	
10	Oxides of Nitrogen @ 15% O ₂	mg/Nm ³		188.29	180.30	NO _x + HC ≤ 4.0
	Oxides of Nitrogen @ 15% O ₂	gr/kw-hr		0.766	0.682	
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/ Nm ³	USEPA M-5	1.69	2.11	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr		0.007	0.008	
12	Particulate Matter @ 15% O ₂	mg/ Nm ³		17.86	14.33	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.073	0.054	

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

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Group Leader-Environment

ISSUED TO:

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

Report Number : VLL/VLS/21/00647/004
 Issued Date : 2022.04.14
 P. Order Ref : 5700301699
 P. Order Date : 26.10.2021

SAMPLE PARTICULARS		DIESEL GENERATOR EMISSION MONITORING		Page 1 of 1		
PLACE OF DG SET INSTALLED		ASR MSSR Area				
Sampling Date		2022.04.09				
Frequency of Monitoring		Half Yearly				
Monitoring Month		APRIL 2022				
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	°C	USEPA M-2	120	126	--
5	Velocity of the Flue gas	m/Sec		9.8	9.3	--
6	Volumetric Flow rate	Nm ³ /hr		264	250	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm ³	USEPA CTM30&34	21.7	17.7	--
8	Carbon Monoxide @ 15% O ₂	mg/Nm ³		53.35	46.38	≤3.5
9	Carbon Monoxide @ 15% O ₂	gr/kw-hr		0.113	0.093	
10	Oxides of Nitrogen @ 15% O ₂	mg/Nm ³		99.25	111.17	NOx + HC ≤ 4.0
	Oxides of Nitrogen @ 15% O ₂	gr/kw-hr		0.209	0.223	
11	Hydro Carbons as CH ₄ @ 15% O ₂	mg/ Nm ³		0.94	0.76	
	Hydro Carbons as CH ₄ @ 15% O ₂	gr/kw-hr		0.002	0.002	
12	Particulate Matter @ 15% O ₂	mg/ Nm ³	USEPA M-5	11.49	10.16	≤ 0.2
	Particulate Matter @ 15% O ₂	gr/kw-hr		0.024	0.020	

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


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ISSUED TO:

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 Issued Date : 2022,06.07
 P. Order Ref : 5700301699
 P.O. Date : 26.10.2021

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SAMPLE PARTICULARS

Frequency Of Sampling	: One Grab sample in a Quarter
Month of Sampling	: MAY 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	: As per IS 10500:2012
Sample Collected On	: 19.05.2022
Analysis Start Date	: 18.05.2022
Analysis Completion Date	: 28.05.2022
Sample collected by Vimta Labs Ltd.,	

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	GW1	GW2	GW3	GW4	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	7.32	7.55	7.25	7.21	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23 rd (2520B)	0.045	0.037	0.040	0.035	--
3	Conductivity	µs/cm	APHA 23 rd (2510B)	225	204	181	208	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	141	130	114	135	500(2000)
5	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	<1	1(5)
6	Chlorides as Cl	mg/l	IS 3025 (Part 32)	25.3	21.0	22.7	19.8	200(600)
7	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	<0.001	0.001(NR)
8	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.01(0.05)
9	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.01(NR)
10	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.05(NR)
11	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	<0.003	0.003(0.003)
12	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	57.5	60.1	47.3	66.2	200(600)
13	Calcium as Ca	mg/l	IS 3025 (part	13.4	11.6	10.1	11.5	75(200)
14	Magnesium as Mg	mg/l	IS 3025 (Part	8.5	9.1	8.4	10.3	30(100)
15	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	19.3	15.5	13.3	14.1	--
16	Potassium as K	mg/l	APHA 23 rd (3500 K)	1.0	1.6	1.3	1.8	--
17	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	14.3	8.3	7.4	6.2	200(400)
18	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	3.1	2.6	2.8	3.3	45(NR)

Ground Water Locations:

GW1: Gate No. 04 Apron Area

GW2: Apron pump

GW3: HSD Area

GW4: MT OTB


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 Issued Date : 2022.06.07
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SAMPLE PARTICULARS : Ground Water

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	GW1	GW2	GW3	GW4	Limits as per IS 10500 : 2012
19	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	<0.02	<0.02	<0.02	<0.02	--
20	Barium as Ba	mg/l	APHA 23 rd 3125	0.014	0.029	0.036	0.025	0.7(NR)
21	Fluoride as F	mg/l	APHA 23 rd (4500)	0.3	0.6	0.4	0.2	1.0(1.5)
22	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	--
23	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.05(1.5)
24	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.1(0.3)
25	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.02(NR)
26	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	68.5	66.4	59.8	71.1	200(600)
27	Iron as Fe	mg/l	APHA 23 rd 3125	0.02	0.06	0.08	0.04	1.0
28	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	0.35	0.41	0.27	0.38	--
29	Zinc as Zn	mg/l	APHA 23 rd 3125	0.23	0.15	0.18	0.26	5(15)
30	Total Coliform	MPN/100	IS 15185 : 2016	Absent	Absent	Absent	Absent	10
31	Fecal Coliform	MPN/100	EPA Method 1681:2008	Absent	Absent	Absent	Absent	10

Ground Water Locations:

GW1: Gate No. 04 Apron Area

GW2: Apron pump

GW3: HSD Area

GW4: MT OTB

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SAMPLE PARTICULARS		Ground Water
Frequency Of Sampling	:	One Grab sample in a Quarter
Month of Sampling	:	September 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	:	As per IS 10500:2012
Sample Collected On	:	15.09.2022
Analysis Start Date	:	17.09.2022
Analysis Completion Date	:	27.09.2022
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No.	Parameter	UoM	Method of Testing	GW1	GW2	GW3	GW4	Limits as per IS 10500 : 2012
1	pH	--	IS 3025 (Part-11)	6.93	6.87	7.25	7.07	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23 rd (2520B)	0.060	0.027	0.049	0.041	--
3	Conductivity	µs/cm	APHA 23 rd (2510B)	293	143	220	173	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	187	86	138	110	500(2000)
5	Turbidity	NTU	IS 3025 (Part 10)	<1	<1	<1	<1	1(5)
6	Chlorides as Cl	mg/l	IS 3025 (Part 32)	33.8	15.4	27.3	23.2	200(600)
7	Mercury as Hg	mg/l	APHA 23 rd 3125	<0.001	<0.001	<0.001	<0.001	0.001(NR)
8	Arsenic as As	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.01(0.05)
9	Lead as Pb	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.01(NR)
10	Chromium as Cr	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.05(NR)
11	Cadmium as Cd	mg/l	APHA 23 rd 3125	<0.003	<0.003	<0.003	<0.003	0.003(0.003)
12	Total Alkalinity as CaCO ₃	mg/l	IS 3025 (Part-23)	25	40	57	45	200(600)
13	Calcium as Ca	mg/l	IS 3025 (part	19.7	8.4	14.3	9.8	75(200)
14	Magnesium as Mg	mg/l	IS 3025 (Part	9.8	5.6	7.9	6.8	30(100)
15	Sodium as Na	mg/l	APHA 23 rd (3500 Na)	24.8	11.9	18.1	14.6	--
16	Potassium as K	mg/l	APHA 23 rd (3500 K)	2.5	1.2	2.1	1.5	--
17	Sulphates as SO ₄	mg/l	IS 3025 (part-24)	18.4	6.7	9.8	5.3	200(400)
18	Nitrates as NO ₃	mg/l	APHA 23 rd (4500)	2.8	1.7	3.5	2.5	45(NR)

Ground Water Locations:

GW1: Gate No. 04 Apron Area

GW2: Apron pump

GW3: HSD Area

GW4: MT OTB

Sivakumar Madireddy
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SAMPLE PARTICULARS : Ground Water

TEST REPORT

Sc.No.	Parameter	UoM	Method of Testing	GW1	GW2	GW3	GW4	Limits as per IS 10500 : 2012
19	Phosphates as PO ₄	mg/l	APHA 23 rd (4500 -P D)	<0.02	<0.02	<0.02	<0.02	--
20	Barium as Ba	mg/l	APHA 23 rd 3125	0.023	0.012	0.010	0.021	0.7(NR)
21	Fluoride as F	mg/l	APHA 23 rd (4500)	0.9	0.5	0.6	0.3	1.0(1.5)
22	Cobalt as Co	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	--
23	Copper as Cu	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.05(1.5)
24	Manganese as Mn	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.1(0.3)
25	Nickel as Ni	mg/l	APHA 23 rd 3125	<0.01	<0.01	<0.01	<0.01	0.02(NR)
26	Total Hardness as CaCO ₃	mg/l	IS 3025 (Part-21)	89.6	44.0	68.3	52.5	200(600)
27	Iron as Fe	mg/l	APHA 23 rd 3125	0.07	0.05	0.03	0.02	1.0
28	Silica as SiO ₂	mg/l	APHA 23 rd (4500 - SiO ₂)	0.28	0.32	0.42	0.19	--
29	Zinc as Zn	mg/l	APHA 23 rd 3125	0.17	0.23	0.19	0.14	5(15)
30	Total Coliform	MPN/100	IS 15185 : 2016	Absent	Absent	Absent	Absent	10
31	Fecal Coliform	MPN/100	EPA Method 1681:2008	Absent	Absent	Absent	Absent	10

Ground Water Locations:

GW1: Gate No. 04 Apron Area

GW2: Apron pump

GW3: HSD Area

GW4: MT OTB

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SAMPLE PARTICULARS	
Frequency Of Sampling	Monthly Once in Each Location
Time Weighted Average	24 Hours
Method of Analysis	IS:9989
Month of Monitoring	APRIL 2022
Test Required	L-Day and L-Night
Sample collected by Vimta labs ltd	

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Near Runway 6 (Air Side)	21.04.2022	68.8	63.1
2	Near Old Terminal Building	12.04.2022	66.2	61.8
3	Near NATS Building	14.04.2022	62.7	59.8
4	Near Car Parking Area	19.04.2022	65.1	60.3
	Noise Standards for Airport Zone		70.0	65.0

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SAMPLE PARTICULARS		AMBIENT NOISE LEVEL MONITORING
Frequency Of Sampling	:	Monthly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	MAY 2022
Test Required	:	L-Day and L-Night

Sample collected by Vimta labs ltd

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Near Runway 6 (Air Side)	19.05.2022	67.2	62.6
2	Near Old Terminal Building	04.05.2022	64.4	60.4
3	Near NATS Building	06.05.2022	63.6	58.3
4	Near Car Parking Area	16.05.2022	66.3	61.7
	Noise Standards for Airport Zone		70.0	65.0

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SAMPLE PARTICULARS		AMBIENT NOISE LEVEL MONITORING
Frequency Of Sampling	:	Monthly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	June 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta Labs ltd		

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Near Runway 6 (Air Side)	09.06.2022	68.3	62.8
2	Near Old Terminal Building	02.06.2022	66.4	59.2
3	Near NATS Building	04.06.2022	65.1	60.3
4	Near Car Parking Area	07.06.2022	67.7	62.5
	Noise Standards for Airport Zone			70.0
				65.0

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SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING

Frequency Of Sampling : Monthly Once in Each Location
 Time Weighted Average : 24 Hours
 Method of Analysis : IS:9989
 Month of Monitoring : July 2022
 Test Required : L-Day and L-Night
 Sample collected by Vimta labs Ltd

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Near Runway 6 (Air Side)	21.07.2022	69.0	63.2
2	Near Old Terminal Building	26.07.2022	67.7	62.1
3	Near NATS Building	14.07.2022	64.8	58.4
4	Near Car Parking Area	12.07.2022	68.1	63.8
Noise Standards for Airport Zone			70.0	65.0

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SAMPLE PARTICULARS		AMBIENT NOISE LEVEL MONITORING
Frequency Of Sampling	:	Monthly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	August 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta labs ltd		

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Near Runway 6 (Air Side)	23.08.2022	67.2	62.7
2	Near Old Terminal Building	02.08.2022	65.1	60.4
3	Near NATS Building	09.08.2022	63.1	56.9
4	Near Car Parking Area	17.08.2022	66.5	61.3
	Noise Standards for Airport Zone		70.0	65.0

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SAMPLE PARTICULARS		AMBIENT NOISE LEVEL MONITORING
Frequency Of Sampling	:	Monthly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS-9989
Month of Monitoring	:	September 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta labs ltd		

TEST REPORT

Sr.No	Name of the Location	Date of Monitoring	L-day	L-night
			dB(A)	
1	Near Runway 6 (Air Side)	14.09.2022	68.4	63.3
2	Near Old Terminal Building	02.09.2022	63.8	57.9
3	Near NATS Building	08.09.2022	62.7	55.8
4	Near Car Parking Area	06.09.2022	67.2	62.2
	Noise Standards for Airport Zone		70.0	65.0

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SAMPLE PARTICULARS		DG NOISE LEVEL MONITORING Monitored at 1 meter Distance from Acoustic Enclosure	Page 1 of 1
Frequency Of Sampling	:	Quarterly Once for Each DG Set	
Type of Measurement	:	SPOT	
Month of Monitoring	:	June 2022	
Test Required	:	Sound Pressure Levels in DG Off and On Conditions	
Sample collected by Vimta labs Ltd			

TEST REPORT

S.No.	Stack ID	Sampling Location	Date of Mesurement	When DG is not in operation (background level)	While DG Running
1	DG 750 kVA -1	New International Terminal Building (NITB)	08.06.2022	55.5	73.2
2	DG 750 kVA - 2			59.5	72.8
3	DG 750 kVA - 3			58.9	74.1
4	DG 750 kVA - 5	NATS Building	08.06.2022	60.2	72.7
5	DG 750 kVA - 6			57.4	73.6
6	DG 500 kVA - 7			55.2	73.1
7	DG 250 kVA - 8			51.4	71.9
8	DG 30 kVA - 9	OTB	08.06.2022	48.5	72.5
9	DG 125 kVA - 10			53.4	74.0
10	DG 125 kVA - 11			52.8	72.5
CPCB DG Noise Standard up to 1000 kva: 75 d(B)A					

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SAMPLE PARTICULARS		FLIGHT PATH AREA NOISE LEVEL MONITORING
Frequency Of Sampling	:	Quarterly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	June 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta Labs ltd		

TEST REPORT

Location Code	FPN-1		
Name of the Location	Kenjar		
GPS Coordinates	12° 56'45.01"N 74°52'1.96"E		
Distance from Airport compound wall in meters→	500		
	Results-d(B)A		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 17 th June 2022	57.0	48.7	53.8
Day-2: 18 th June 2022	54.8	44.6	51.2
Day-3: 19 th June 2022	56.2	48.7	53.4
Day-4: 20 th June 2022	55.4	45.2	51.3
Day-5: 21 st June 2022	56.5	46.3	52.4
Day-6: 22 nd June 2022	57.8	47.3	53.7
Day-7: 23 rd June 2022	58.9	49.3	55.0

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SAMPLE PARTICULARS		FLIGHT PATH AREA NOISE LEVEL MONITORING
Frequency Of Sampling	:	Quarterly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	June 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta labs Ltd		

TEST REPORT

Location Code	FPN-2		
Name of the Location	Bailamaiha		
GPS Coordinates	12° 57'44.20"N 74°54'2.32"E		
Distance from Airport compound wall in meters→	150		
Date of Monitoring	Results-d(B)A		
Day-1: 10 th June 2022	L-Day	L-night	L-equivalent
Day-2: 11 th June 2022	58.6	49.7	55.0
Day-3: 12 th June 2022	55.0	47.5	52.2
Day-4: 13 th June 2022	62.3	51.4	58.7
Day-5: 14 th June 2022	57.5	48.1	54.0
Day-6: 15 th June 2022	56.7	49.0	53.3
Day-7: 16 th June 2022	59.6	51.0	55.2
	62.2	50.8	58.0

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/04667/013
 Issued Date : 2022.07.05
 P. Order Ref : 5700301699
 P.O. Date : 26.10.2021

Page 1 of 1

SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Once in Each Location
 Time Weighted Average : 24 Hours
 Method of Analysis : IS:9989
 Month of Monitoring : June 2022
 Test Required : L-Day and L-Night
 Sample collected by Vimta labs Ltd

TEST REPORT

Location Code	FPN-3		
Name of the Location	Near Pana college		
GPS Coordinates	12° 57'49.18"N 74°54'32.71"E		
Distance from Airport compound wall in meters→	1100		
Results-d(B)A			
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 24 th June 2022	56.8	49.6	54.0
Day-2: 25 th June 2022	54.3	42.5	50.1
Day-3: 26 th June 2022	52.8	47.0	50.4
Day-4: 27 th June 2022	55.4	45.2	51.3
Day-5: 28 th June 2022	53.4	44.6	49.8
Day-6: 29 th June 2022	54.3	45.1	50.8
Day-7: 30 th June 2022	52.2	42.0	48.1

Dr. SubbaReddy Mallampati
 Dy. Manager-Environment

Vimta Labs Limited

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**ISSUED TO:**

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

Report Number : VLL/VLS/22/09425/018
 Issued Date : 2022.10.06
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

SAMPLE PARTICULARS : DG NOISE LEVEL MONITORING

Monitored at 1 meter Distance from Acoustic Enclosure

Frequency Of Sampling	Quarterly Once for Each DG Set
Type of Measurement	SPOT
Month of Monitoring	September 2022
Test Required	Sound Pressure Levels in DG Off and On Conditions
Sample collected by Vimta Labs ltd	

Page 1 of 1

TEST REPORT

S.No.	Stack ID	Sampling Location	Date of Mesurement	When DG is not in operation (background level)	While DG Running
1	DG 750 kVA -1	New International Terminal Building (NITB)	13.09.2022	57.2	71.7
2	DG 750 kVA - 2			55.9	74.0
3	DG 750 kVA - 3			60.3	72.8
4	DG 40 kVA - 4			52.4	70.3
5	DG 750 kVA - 5	NATS Building	14.09.2022	57.7	74.1
6	DG 750 kVA - 6			58.0	70.4
7	DG 500 kVA - 7			56.2	71.8
8	DG 250 kVA - 8			53.4	73.0
9	DG 30 kVA - 9	OTB	14.09.2022	50.3	69.4
10	DG 125 kVA - 10			55.2	71.8
11	DG 125 kVA - 11			54.0	73.9
CPCB DG Noise Standard up to 1000 kva: 75 d(B)A					

Sivakumar Madireddy
 Group Leader-Environment

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 P.O. Date : 26.10.2021

Page 1 of 1

SAMPLE PARTICULARS		FLIGHT PATH AREA NOISE LEVEL MONITORING
Frequency Of Sampling	:	Quarterly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	June 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta labs ltd		

TEST REPORT

Location Code	FPN-1		
Name of the Location	Kenjar		
GPS Coordinates	12° 56'45.01"N 74°52'1.96"E		
Distance from Airport compound wall in meters→	500		
	Results-d(B)A		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 17 th June 2022	57.0	48.7	53.8
Day-2: 18 th June 2022	54.8	44.6	51.2
Day-3: 19 th June 2022	56.2	48.7	53.4
Day-4: 20 th June 2022	55.4	45.2	51.3
Day-5: 21 st June 2022	56.5	46.3	52.4
Day-6: 22 nd June 2022	57.8	47.3	53.7
Day-7: 23 rd June 2022	58.9	49.3	55.0

Dr. SubbaReddy Mallampati
 Dy. Manager-Environment

ISSUED TO:

M/s. MANGALURU INTERNATIONAL AIRPORT
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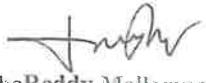
Report Number : VLL/VLS/22/04667/012
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Page 1 of 1

SAMPLE PARTICULARS		FLIGHT PATH AREA NOISE LEVEL MONITORING
Frequency Of Sampling	:	Quarterly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	June 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta labs Ltd		

TEST REPORT

Location Code	FPN-2		
Name of the Location	Bailamatha		
GPS Coordinates	12° 57'44.20"N 74°54'2.32"E		
Distance from Airport compound wall in meters→	150		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 10 th June 2022	58.6	49.7	55.0
Day-2: 11 th June 2022	55.0	47.5	52.2
Day-3: 12 th June 2022	62.3	51.4	58.7
Day-4: 13 th June 2022	57.5	48.1	54.0
Day-5: 14 th June 2022	56.7	49.0	53.3
Day-6: 15 th June 2022	59.6	51.0	55.2
Day-7: 16 th June 2022	62.2	50.8	58.0


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Page 1 of 1

SAMPLE PARTICULARS		FLIGHT PATH AREA NOISE LEVEL MONITORING
Frequency Of Sampling	:	Quarterly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	June 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta Labs Ltd		

TEST REPORT

Location Code	FPN-3		
Name of the Location	Near Pana college		
GPS Coordinates	12° 57'49.18"N 74°54'32.71"E		
Distance from Airport compound wall in meters→	1100		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 24 th June 2022	56.8	49.6	54.0
Day-2: 25 th June 2022	54.3	42.5	50.1
Day-3: 26 th June 2022	52.8	47.0	50.4
Day-4: 27 th June 2022	55.4	45.2	51.3
Day-5: 28 th June 2022	53.4	44.6	49.8
Day-6: 29 th June 2022	54.3	45.1	50.8
Day-7: 30 th June 2022	52.2	42.0	48.1

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 KARNATAKA 574142.

Report Number : VLL/VLS/22/09425/011
 Issued Date : 2022.10.06
 P. Order Ref : 5700312428
 P.O. Date : 20.07.2022

Page 1 of 1

SAMPLE PARTICULARS		FLIGHT PATH AREA NOISE LEVEL MONITORING
Frequency Of Sampling	:	Quarterly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	September 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta labs Ltd		

TEST REPORT

Location Code	FPN-1		
Name of the Location	Kenjar		
GPS Coordinates	12° 56' 45.01"N 74° 52' 1.96"E		
Distance from Airport compound wall in meters—	500		
	Results-d(B)A		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 07 th September 2022	53.2	44.1	50.3
Day-2: 08 th September 2022	54.7	43.5	51.2
Day-3: 09 th September 2022	51.5	42.5	48.3
Day-4: 10 th September 2022	53.7	43.0	50.6
Day-5: 11 th September 2022	52.8	44.2	49.5
Day-6: 12 th September 2022	54.4	42.8	51.4
Day-7: 13 th September 2022	52.9	43.7	48.9

Siyakumar Mardreddy
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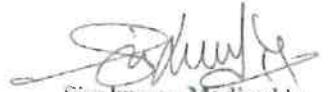
Page 1 of 1

SAMPLE PARTICULARS : FLIGHT PATH AREA NOISE LEVEL MONITORING

Frequency Of Sampling : Quarterly Once in Each Location
 Time Weighted Average : 24 Hours
 Method of Analysis : IS:9989
 Month of Monitoring : September 2022
 Test Required : L-Day and L-Night
 Sample collected by Vimta Labs Ltd

TEST REPORT

Location Code	FPN-2		
Name of the Location	Bailamatha		
GPS Coordinates	12° 57'44.20"N 74°54'2.32"E		
Distance from Airport compound wall in meters—	150		
Date of Monitoring	L-Day	L-night	L-equivalent
Day-1: 15 th September 2022	52.5	43.2	48.8
Day-2: 16 th September 2022	51.6	42.8	47.4
Day-3: 17 th September 2022	53.2	41.6	49.7
Day-4: 18 th September 2022	52.8	44.2	50.1
Day-5: 19 th September 2022	50.4	43.1	47.5
Day-6: 20 th September 2022	51.6	42.8	48.3
Day-7: 21 st September 2022	53.7	44.0	50.4



Sivakumar Madireddy
 Group Leader-Environment

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SAMPLE PARTICULARS		FLIGHT PATH AREA NOISE LEVEL MONITORING
Frequency Of Sampling	:	Quarterly Once in Each Location
Time Weighted Average	:	24 Hours
Method of Analysis	:	IS:9989
Month of Monitoring	:	September 2022
Test Required	:	L-Day and L-Night
Sample collected by Vimta labs Ltd		

TEST REPORT

Location Code	FPN-3		
	Near Pana college		
GPS Coordinates	12° 57'49.18"N 74°54'32.71"E		
Distance from Airport compound wall in meters→	1100		
Date of Monitoring	Results-d(B)A		
	L-Day	L-night	L-equivalent
Day-1: 22 nd September 2022	52.3	42.1	49.3
Day-2: 23 rd September 2022	54.0	43.7	50.7
Day-3: 24 th September 2022	51.3	41.5	48.7
Day-4: 25 th September 2022	53.3	44.6	50.2
Day-5: 26 th September 2022	52.6	43.5	48.8
Day-6: 27 th September 2022	54.2	42.8	51.4
Day-7: 28 th September 2022	53.7	43.2	49.9

Sivakumar Madireddy
 Group Leader-Environment

Vimta Labs Limited

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 BAJPE MAIN RD,
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Report Number : VLL/VLS/22/09425/019
 Issued Date : 2022.10.06
 P. Order Ref : 5700312428
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Page 1 of 2

SAMPLE PARTICULARS	
Frequency Of Sampling	: Soil Sample Quality
Month of Sampling	: One Grab sample in a Six Months
Quantity Collected for Analysis	: September 2022
Type of Container used for sampling	: 1Kg
Test Required	: Leak Proof ZIP Lock Cover
Sample Collected On	: As per ML Jackson Book
Analysis Start Date	: 15.09.2022
Analysis Completion Date	: 17.09.2022
Sample collected by Vimta Labs Ltd.,	

TEST REPORT

Sr.No	Parameters	UoM	S1	S2	S3	S4
1	Textural Class	----	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
a	Sand	%	47	51	49	46
b	Silt	%	12	13	17	15
c	Clay	%	41	36	34	39
2	Bulk Density	g/cc	1.28	1.34	1.23	1.29
3	pH (1:5 Aq. Extraction)	----	7.36	7.68	7.74	7.57
4	Conductivity (1:5 Aq. Extraction)	µS/cm	243	228	197	264
5	Exchangeable Calcium as Ca	mg/kg	3047	2654	3164	2649
6	Exchangeable Magnesium as Mg	mg/kg	857	765	989	677
7	Exchangeable Sodium as Na	mg/kg	69.2	57.8	92.4	89.9
8	Sodium Absorption Ratio (SAR)	----	0.13	0.11	0.16	0.18
9	Available Nitrogen as N	Kg/hac	41.5	50.2	43.1	61.1
10	Available Phosphorous as P	Kg/hac	60.5	69.3	52.7	65.9
11	Available Potassium as K	Kg/hac	116.3	152.5	123.7	139.6
12	Organic Carbon	%	0.19	0.22	0.21	0.28
13	Organic Matter	%	0.33	0.39	0.36	0.49
14	Water Soluble Chlorides as Cl	mg/kg	59.7	76.0	69.1	74.4
15	Water Soluble Sulphates as SO ₄	mg/kg	38.4	49.2	52.5	62.6

Soil Sampling Locations

S1 - Soil Sample Collected at Parking Area
 S2 - Soil Sample Collected at Old Airport Area
 S3 - Soil Sample Collected at NATS
 S4 - Soil Sample Collected at Runway No :6

Sivakumar Madireddy
 Group Leader-Environment

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Page 2 of 2

SAMPLE PARTICULARS		Soil Sample Quality
Frequency Of Sampling	:	One Grab sample in a Six Months
Month of Sampling	:	September 2022
Quantity Collected for Analysis	:	1Kg
Type of Container used for sampling	:	Leak Proof ZIP Lock Cover
Test Required	:	As per ML Jackson Book
Sample Collected On	:	15.09.2022
Analysis Start Date	:	17.09.2022
Analysis Completion Date	:	27.09.2022
Sample collected by Vimta Labs Ltd.,		

TEST REPORT

Sr.No	Parameters	UoM	S1	S2	S3	S4
16	Aluminium as Al	%	0.64	0.86	0.72	0.54
17	Total Iron as Fe	%	1.98	2.15	1.76	1.82
18	Manganese as Mn	mg/kg	412	524	368	426
19	Boron as B	mg/kg	26.5	36.7	32.2	29.4
20	Zinc as Zn	mg/kg	39.2	47.4	56.4	41.3
21	Total Chromium as Cr	mg/kg	1.9	2.3	1.7	1.5
22	Lead as Pb	mg/kg	<1.0	<1.0	<1.0	<1.0
23	Nickel as Ni	mg/kg	2.4	1.7	1.5	2.1
24	Arsenic as As	mg/kg	<1.0	<1.0	<1.0	<1.0
25	Mercury as Hg	mg/kg	<1.0	<1.0	<1.0	<1.0
26	Cadmium as Cd	mg/kg	<1.0	<1.0	<1.0	<1.0
27	Exchangeable Calcium	meq/100g	15.24	13.27	15.82	13.25
28	Exchangeable Magnesium	meq/100g	7.14	6.38	8.24	5.64
29	Exchangeable Sodium	meq/100g	0.30	0.25	0.40	0.39
30	Exchangeable Potassium	meq/100g	0.15	0.19	0.17	0.18
31	Cation Exchange Capacity	meq/100g	22.83	20.08	24.63	19.46

Soil Sampling Locations

S1- Soil Sample Collected at Parking Area
 S2 - Soil Sample Collected at Old Airport Area
 S3 - Soil Sample Collected at NATS
 S4 - Soil Sample Collected at Runway No :6

Sivakumar Madireddy
 Group Leader-Environment



Ref. No.: MIAL/CAO/Environment/2022/ 235

Date: 21st May 2022

To

Addl. Principal Chief Conservator of Forest (C),
Ministry of Env., Forest and Climate Change,
Regional Office (SZ), Kendriya Sadan, 4th Floor, EBF Wings, 17th Main Road,
Koramangala II Block, Bangalore 560034

Sub.: Half yearly Compliance report for Environment Clearance for "Construction of New Integrated Passenger Terminal Building and Apron at Mangaluru Airport".

Ref.: 1) Environment clearance granted for "Construction of New Integrated Passenger Terminal Building and Apron" at Mangaluru Airport, Bajpe Mangaluru vide letter dated 1st Nov 2007 bearing MoEF letter No. F. No. 10-79/2007-IA-III.
2) Transfer of Environment Clearance from Airport Authority of India (AAI) to Adani Mangaluru International Airport Limited (AMIAL) vide letter dated 3rd Aug 2021 bearing MoEFCC letter No. F. No. 10-79/2007-IA-III.
3) Name Change in EC from Adani Mangaluru International Airport Limited (AMIAL) to Mangaluru International Airport Limited (MIAL) vide MoEFCC letter No. F. No. 10-79/2007-IA-III dated 16th Feb 2022.

Dear Sir,

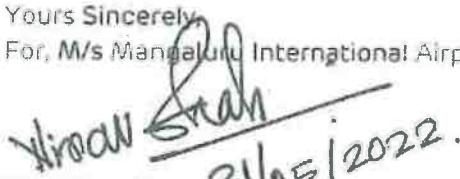
With reference to the above, Mangaluru International Airport Limited is hereby submitting the half yearly compliance report for the period of October-2021 to March-2022 through soft copy (e-mail communication).

Request for your kind consideration and acknowledgment.

Thank you,

Yours Sincerely,

For, M/s Mangaluru International Airport Limited


Mr. Nirav Shah 21/05/2022.
Chief Airport Officer

Encl: As above

Copy to:

1) The Director (IA Division), Ministry of Environment, Forests & Climate Change, Indira Paryavaran Bhawan, Jor Bagh Road, New Delhi-110003

Mangaluru International Airport Limited
(Formerly Adani Mangaluru International Airport Limited)
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- 2) Regional Director CPCB Bangalore, Nisarga Bhavan, Thimmaiah Road, 7th D Main Rd Shivanagar, Bengaluru, Karnataka 560079
- 3) Member Secretary, Karnataka State Pollution Control Board, "Parisara" Bhavan", No# 49, Church Street Bengaluru 560001
- 4) Environment Officer, Regional Officer Karnataka State Pollution Control Board Plot No.10 B, Balkampady Industrial Area, Mangalore-575011
- 5) Airport Authority of India, Mangaluru International Airport,

Mangaluru International Airport Limited
(Formerly Adani Mangaluru International Airport Limited)
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CIN: U63030GJ2019PLC110062

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adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22 To : Sep'22
Environment Management Plan		

Environment Management Plan

MIAL is effectively implementing Environment Management Plan across the site, as an environmentally responsible organization MIAL is IMS certified (ISO 9001, ISO 14001, & ISO 45001) and is regularly carrying out Environment monitoring with respect to Air, Noise, Water, Soil etc. and reports are being submitted to all the regulatory authorities, as a part of Six-Monthly Compliance report.

Following are the environment management plans implemented in Mangaluru International Airport.

❖ **Wastewater Treatment and Disposal /Recycling**

- ✓ 0.15 MLD of Sewage Treatment Plant (STP) with Moving Bed Bio-Reactor technology (MBBR) technology is operational at MIA.
- ✓ Another 0.5 MLD STP with Membrane Bioreactor (MBR) technology is under construction to meet the future sewage treatment.

Sewage Treatment Plant (STP) with Moving Bed Bio-Reactor technology (MBBR) is installed at site for treating the domestic sewage generated from airport premises. The treated wastewater generated from the STP is utilized for gardening and horticulture activity within MIA premises to conserve the freshwater consumption.



Photographs (1): Sewage Treatment Plant of 0.15 MLD under operation at MIAL

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22
		To : Sep'22
Environment Management Plan		

❖ **Solid Waste Management plan**

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

Source Segregation:

The waste generated in the airport is segregated at source in the bins having compartment for biodegradable and non-biodegradable waste. The segregated waste is transported to the temporary storage area.

Secondary transportation and Processing:

Mangaluru International Airport is working on Solid Waste management to achieve 'Zero Waste Landfill', as part of this, MIA has set up of 3 Tons Per Day Solid Waste processing facility.

An outsourced agency M/s. KNN Enterprises is appointed for transportation and processing of the waste in solid waste processing facility which consists of dry waste segregation area and Wet waste processing area.

The Solid Waste processing facility is having wet waste/ organic waste processing area with Organic Waste Converter (OWC) of 500 kg capacity with curing crates and shelves. The daily food waste generated at airport canteens, flight kitchens are treated in organic waste converter (OWC 500KG Capacity). The compost generated from OWC is used for horticulture purpose at MIAL premises.

Dry waste segregation area consists of demarcated compartments like plastic, plastic bottles, paper, glass bottles and PPE waste. The dry waste will be segregated in these compartments and sent to recyclers for further recycling.

❖ **Water Conservation:**

- ✓ As part of water conservation, all the sensor-based water taps and urinals have been installed.
- ✓ 5000 KL of rainwater storage/ collection tank is provided to collect rainwater.
- ✓ Treated sewage from the STP is utilized for gardening & horticulture purpose.

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22 To : Sep'22
Environment Management Plan		



Photograph (2) & (3): Sensor based Taps and Urinals at MIAL terminal

❖ **Noise Control:**

Following safeguard measures are taken for abatement of dust and noise emissions:

- ✓ D.G. Set having acoustic enclosures and regular noise monitoring carried out at all the DG locations in MIAL premises.
- ✓ Regular Noise Monitoring is being carried out at 04 locations through MoEFCC/ NABL approved laboratory & additionally, continuous (7 days) flight path noise monitoring carried out at 3 locations to monitor the Noise generated through Aircrafts.

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22 To : Sep'22
Environment Management Plan		



(3)



(4)



(5)

Photograph (3), (4) & (5): DG set with acoustic enclosure, DG set noise monitoring and ambient noise monitoring at MIAL

❖ **Air Management:**

- ✓ Ambient Air Quality Monitoring is carried out at 4 locations by engaging 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.
- ✓ Adequate green cover of about 6 Acres has been developed as part of MIAL.

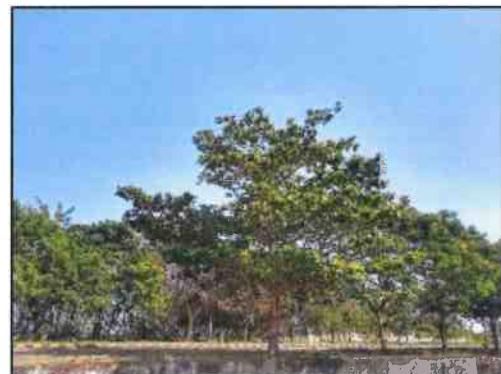
adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22 To : Sep'22
Environment Management Plan		



(6)



(7)



(8)

Photograph (6): Ambient air quality monitoring location at MIAL premises
Photograph (7) & (8): Greenbelt at MIAL premises

❖ **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.

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22 To : Sep'22
Environment Management Plan		

❖ **Energy Savings**

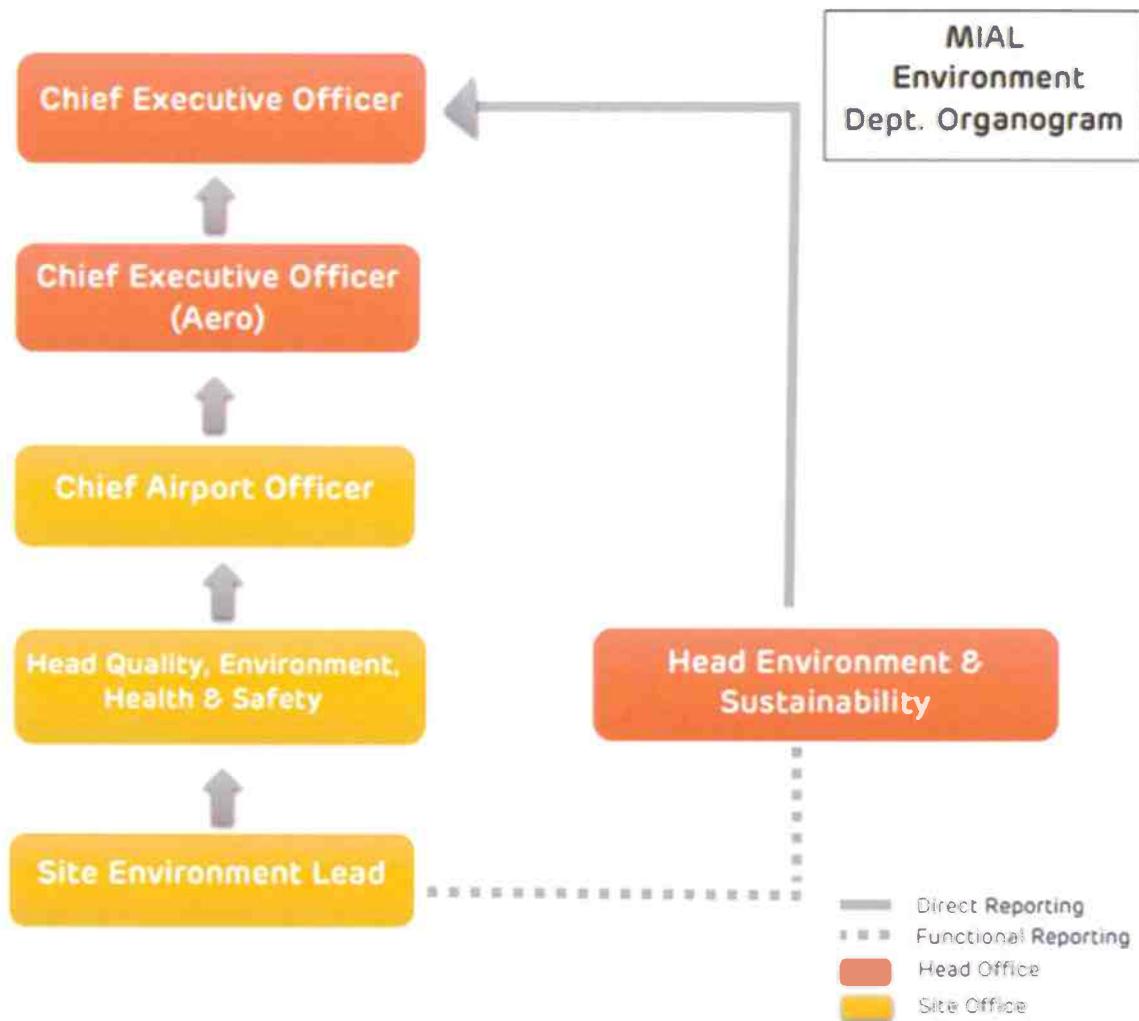
- ✓ We have Converted of 948 no.s conventional lights to LED lights. Achieved an annual energy savings of 626 GJ and overall emission reduction of 137 tCO2 in FY22.
- ✓ The temperature of the Chillers is increased from 7°C to 11-12°C as part of maintenance & controlling the temperature inside the Terminal.
- ✓ The number of chillers at airport premises are reduced by combining the chiller lines of Arrival & Departure areas as part of energy conservation.
- ✓ Temperature Controllers are installed for AHU operations.
- ✓ Server rooms' air-condition is localized in place of centralized system to reduce energy consumption.
- ✓ 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.

Other Initiatives- Carbon Neutrality vision

Carbon Emission Reduction initiatives taken at MIAL.

1. Transitioned 3 no.s of airport owned conventional vehicles to Electric Vehicles (EV)
1. Installed 01 Electric Vehicle Charging station (EVCS) in Landside to facilitate usage of electric vehicles for airport operations and passenger travel
2. Replaced 151 no.s of CO2 type fire extinguishers in FY 22 with a lower Global Warming Potential ABC type fire extinguishers.
3. Replaced 59 no.s air conditioners of R22 refrigerants with lower Global Warming Potential refrigerant (R22 to R32).
4. Achieved an annual energy savings of 626 GJ through conversion of 948 no.s conventional lights to LED achieving an overall emission reduction of 137 tCO2 in FY22.
5. Energy audit to enable energy efficiency and reduction in carbon emissions.

adani	Mangaluru International Airport Limited (MIAL)	From : Apr'22 To : Sep'22
Environment Cell Organogram		



F. No. No. 10-79/2007-IA.III
Government of India
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan,
Jor Bagh Road, New Delhi – 110003

3rd August, 2021

To,

Chief Airport Officer
Adani Mangaluru International Airport Ltd,
Bajpee Main Road, Kenjar, PO Bajpee,
Mangaluru, Dakshina Kannada,
Karnataka – 574142.
Email: suhas.patil1@adani.com

Subject: Construction of New Integrated Passenger Building and Apron at Mangaluru Airport - Transfer of Environmental Clearance(EC)- regarding.

Sir,

This has reference to your online application/proposal No. IA/KA/MIS/215585/2021 dated 25.06.2021 through Parivesh Portal regarding transfer of EC to the above mentioned project from M/s Airport Authority of India(AAI) to M/s Adani Mangaluru International Airport Limited (AMIAL), Mangaluru.

2. The Ministry had earlier issued EC to the project for Construction of New Integrated Passenger Building and Apron at Mangaluru Airport by Airport Authority of India at Mangaluru.

3. M/s Adani Mangaluru International Airport Limited has informed that the concession agreement has signed on 14.02.2020 for Operation, maintenance, management & development New Integrated Passenger Building and Apron at Mangaluru Airport between M/s AAI and M/s Adani Mangaluru International Airport Limited(AMIAL), Mangaluru. As per the agreement, with effect from the commercial operation i.e. 31.10.2020, AMIAL is responsible to comply to all the applicable conditions, as stipulated under the issued EC for New Integrated Passenger Building and Apron at Mangaluru Airport issued by the Ministry vide even number dated 01.11.2007.

4. M/s Adani Mangaluru International Airport Limited has submitted a copy of undertaking/NOC as signed by the authorized signatory to abide by the terms and conditions stipulated in the EC granted vide letter No.10-79/2007-IA.III dated 01.11.2007 issued by the Ministry of Environment, Forest and Climate Change to the M/s Airport Authority of India (AAI).



5. As per the relevant provisions of the EIA Notification 2006, the EC to the project for Construction of new International Terminal Building at Mangaluru Airport, Mangaluru granted by the Ministry of Environment, Forest and Climate Change vide letter No. No.10-79/2007-IA.III dated 01.11.2007 is hereby transferred from M/s Airport Authority of India (AAI) to M/s Adani Mangaluru International Airport Limited(AMIAL), on the same terms and conditions.

6. This issues with the approval of the competent authority.


(Dr. Dharmendra Kumar Gupta)
Director (S)

Copy to:

1. The Principal Secretary, Department of Environment, Government of Karnataka, Benagaluru-560001.
2. The Addl. Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office (S2), Kendriya Sadan, 4th Floor, E&F Wing, 17th Main Road, 1-Block, Koramangala, Bengaluru-560034.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, Karnataka State Pollution Control Board, Parisar Bhawan, 49, 4th and 5th Floor, Church Road, Benagluru-560001
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board
7. MoEF&CC website.


(Dr. Dharmendra Kumar Gupta)
Director (S)

File No. 10-79/2007-IA-III
Government of India/Bharat Sarkar
Ministry of Environment, Forest and Climate Change
(IA.III Section)

Indira Paryavaran Bhawan
Jor Bagh Road, New Delhi-110003
16th February, 2022

To,

The Chief Airport Officer
(Shri Nirav Shah)
Mangaluru International Airport Limited,
Adani Corporate House,
Shantigram, Near Vaishno Devi circle,
S.G. Highway, Khudiyar,
Ahmedabad-382421
Gujarat, India.

Subject: Environment Clearance for "Construction of New Integrated Passenger Terminal Building & Apron at Mangaluru Airport" - Name Change in EC - regarding.

Sir,

This has reference to your online application/proposal No. IA/KA/MIS/250312/2022 through Parivesh Portal regarding name change in EC granted to the above mentioned project from M/s Adani Mangaluru International Airport Limited to M/s Mangaluru International Airport Limited.

2. The Ministry had earlier issued EC dated 01.11.2007 to the project for Construction of New Integrated Passenger Building and Apron at Mangaluru Airport by Airport Authority of India. Later, the EC has been transferred from M/s Airport Authority of India to M/s Adani Mangaluru International Airport Limited vide letter No. 10-79/2007-IA-III dated 03.08.2021.

3. Since, the project proponent name has been changed from M/s Adani Mangaluru International Airport Limited to M/s Mangaluru International Airport Limited. M/s Mangaluru International Airport Limited has submitted a copy of undertaking/NOC as signed by the authorized signatory to abide by the terms and conditions stipulated in the EC granted vide letter No. 10-79/2007-IA-III dated 01.11.2007 & 03.08.2021 issued by the Ministry of Environment, Forest and Climate Change to the M/s Airport Authority of India.



4. As per the relevant provisions of the EIA Notification 2006, the project proponent name, "M/s Adani Mangaluru International Airport Limited" in EC already granted by Ministry of Environment, Forest and Climate Change vide letter No. 10-79/2007-IA-III dated 03.08.2021 is hereby changed to "M/s Mangaluru International Airport Limited", on the same terms and conditions specified in the EC granted vide letter No. 10-79/2007-IA-III dated 01.11.2007 & 03.08.2021.

5. This issues with the approval of Competent Authority.


(Dr. Dharmendra Kumar Gupta)
Director (S)

Copy to:

1. The Principal Secretary, Department of Environment, Government of Karnataka, Bengaluru - 560001
2. The Addl. Principal Chief Conservator of Forests (C), Ministry of Environment, Forest and Climate Change, Integrated Regional Office, Kendriya Sadan, 4th Floor, E&F Wings, 17th Main Road, Koramangala II Block, Bangalore - 560034.
3. The Chairman, Central Pollution Control Board Parivesh Bhavan, CBD-cum-Office Complex, East Arjun Nagar, New Delhi - 110 032.
4. The Member Secretary, Karnataka State Pollution Control Board, Parisara Bhavan, No. 49, Church Street, Bengaluru - 560001.
5. Monitoring Cell, MoEF&CC, Indira Paryavaran Bhavan, New Delhi.
6. Guard File/ Record File/ Notice Board/MoEF&CC website.


(Dr. Dharmendra Kumar Gupta)
Director (S)

Corporation Bank

ಕಾರ್ಡ್-576119. ಫೋನ್: 08252-570673, 570116

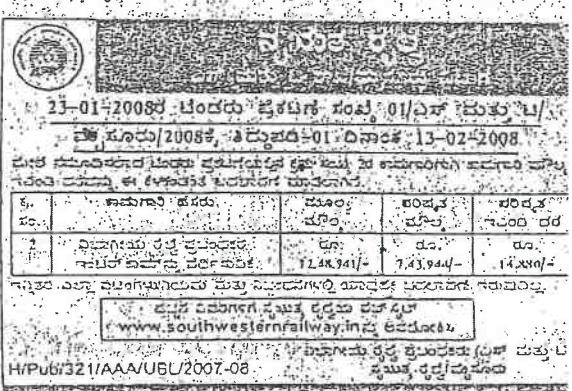
ಕರ್ತವ್ಯದ ವ್ಯಾಪಕ ದಾಖಲೆ ಮತ್ತು ವಿವರಗಳನ್ನು ನಿರ್ದಿಷ್ಟ ಮಾಡಿದ ವರ್ತತನೆ (ಉತ್ತರ)	ಹಣದಿಗೆ ಮತ್ತು ವಿವರಗಳನ್ನು ನಿರ್ದಿಷ್ಟ ಮಾಡಿದ ವರ್ತತನೆ	ಹಣದಿಗೆ ನಿರ್ದಿಷ್ಟ ಕೊಳ್ಳಲು ಬೇಕಾಗಿರುವ ವರ್ತತನೆ	ಹಣದಿಗೆ ನಿರ್ದಿಷ್ಟ ಕೊಳ್ಳಲು ದಿನ ಮತ್ತು ಸಂಖ್ಯೆ
ರೂ.43,783.00 ಮತ್ತು ಕ್ರೆಡಿಟ್ ಪ್ರಮಾಣ 12.00 ರಿಂದ ದಿನ 15.10.2006 ರಿಂದ	ಉತ್ತರ ಕಾಲುಕಣ ಕೆರ್ನಾಲ್ ಸ್ಟ್ರೀಟ್ ಮ್ಯಾನ್ ನಂ.4-171 ಬ್ಲಾಂಡ್‌ಪ್ಲಾಟ್ ಕ್ರೆಡಿಟ್ ನಂ. 164/311, ಪಿ.ಎ.ನಂ. 3123 ಬ್ಲಾಂಡ್‌ಪ್ಲಾಟ್ 10.75 ಕೋಟ್ಟು ರಾಗಿ	ರೂ.10.19 ಟ್ರೆ	24.03.2008 ದಿನ ಹಣದಿಗೆ ನಂ.3.30
ರೂ.7,65,410.00 ಮತ್ತು ಅವಕಾಶ ಪ್ರಮಾಣ ಕ್ರೆಡಿಟ್ ರಿಂದ ದಿನ 01.04.2007 ರಿಂದ	ಉತ್ತರ ಕಾಲುಕಣ ಮ್ಯಾನ್ ಸ್ಟ್ರೀಟ್ ಕ್ರೆಡಿಟ್ ನಂ. 284-1-215 (284-2) ಬ್ಲಾಂಡ್‌ಪ್ಲಾಟ್ ನಂ. 1 (ಪ್ರಾರಂಭಿಕ) ರಾಗಿ ಮತ್ತು ಸ್ಟ್ರೀಟ್ ಕಾಲುಕಣ ನಿರ್ದಿಷ್ಟ	ರೂ.3.44 ಟ್ರೆ	24.03.2008 ದಿನ ಹಣದಿಗೆ ನಂ.3.45
ರೂ.14,85,207.00 ಮತ್ತು ಕ್ರೆಡಿಟ್ ಮ್ಯಾನ್ ಪ್ರಮಾಣ ಕ್ರೆಡಿಟ್ ರಿಂದ ದಿನ 18.02.2007 ರಿಂದ	ಉತ್ತರ ಕಾಲುಕಣ ಅಪ್ಲಿಕೇಶನ್ ಸ್ಟ್ರೀಟ್ ಕ್ರೆಡಿಟ್ ನಂ.4 (8/40 ಹಣದಿಗೆ 110ಕ್ಕೆ (10 ಕೋಟ್ಟು ಪ್ರಾರಂಭಿಕ) ರಾಗಿ ಮತ್ತು ಅಪ್ಪಾನ ಕಾಲುಕಣ ನಿರ್ದಿಷ್ಟ ನಂ. 6-90/1	ರೂ.7.68 ಟ್ರೆ	24.03.2008 ದಿನ ಹಣದಿಗೆ ನಂ.4.00
ರೂ.15,81,254.00 ಮತ್ತು ಅವಕಾಶ ಪ್ರಮಾಣ ಕ್ರೆಡಿಟ್ ರಿಂದ ದಿನ 18.01.2007 ರಿಂದ	ಉತ್ತರ ಕಾಲುಕಣ ಕೊಡತ್ತು ಮತ್ತು ಸ್ಟ್ರೀಟ್ 1. ಕ್ರೆಡಿಟ್ 244-6 (244-645) ನಿಂದ ಯಾರಿಂದ 10 ಕೋಟ್ಟು ರಾಗಿ 2. ಕ್ರೆಡಿಟ್ 244-6 (244- 645) ನಿಂದ ಯಾರಿಂದ 23. ಕೋಟ್ಟು ರಾಗಿ ಕಾರ್ಬನ್ ಅರ್ಪಣೆ ಕಾರ್ಬನ್ ನಿರ್ದಿಷ್ಟ ನಂ. 28/82	ರೂ.3.74 ಟ್ರೆ	24.03.2008 ದಿನ ಹಣದಿಗೆ ನಂ.4.15

ఇచ్చంచేతన బాధకపేచ్చించుగా, తల్లికి తెలుగు



Sub : Construction of New Integrated Terminal Building and Apron at Mangalore Airport.

MOEF vide their letter No. 15-79/2007-T(A)-III dated 01.11.2007 has accorded Environmental clearance to the above project and copies of clearance letters are available with the State Pollution Control Committee and may also be seen at Website of the Ministry of Environment & Forest at <http://www.envfornic.in>



ಕರ್ನಾಟಕ ಸರ್ಕಾರ

జరువుకొనువుకురిగాను, పుట్టుకూ మాట ప్రశ్న అల్పచ్ఛ్రితిప్రాప్తి, సర్వార యంతెకి ప్రాలముందిరి, కౌమిద్య చోఇంగ్ కాయోని, క్రిస్తువిషయమై - 577 102

ಡಿ.ಪಿ.ಆರ್.ಆರ್.ಪಿ. / ಬ್ರಾಹ್ಮಣ / ನಂ/ 07-08/351

ಮಾಲ್ಕರ ಪತ್ತಿಗೆ ಸೆರವು