



Ref: MglAL/Operations/Env/2023-24/ 2460

26<sup>th</sup> May 2023

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 October-2022 to March-2023.

**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: 28<sup>th</sup> 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 October-2022 to March-2023.

This report is being uploaded on to the 'PARIVESH 2.0' online portal.

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

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



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.

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

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

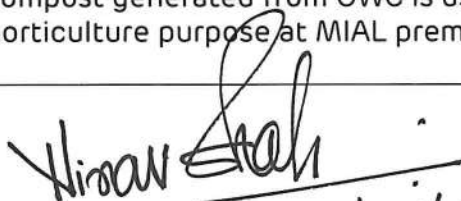
	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

**Compliance Report of  
Environment Clearance  
dated. 1<sup>st</sup> November 2007.**

	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

**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 31 <sup>th</sup> March' 2023
<b>A. Specific Conditions</b>		
I.	No additional land should be acquired for the project outside the existing airport limits.	<b>Complied.</b> 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.
II.	The project proponent should ensure that afforestation will be carried out thrice the number of trees that have been cut.	<b>Noted.</b> 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 <b>Annexure-1</b> . Other existing green areas within the airport boundary are also being maintained.
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.	<b>Complied</b>  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.

  
26/05/2023



	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

Sr. No.	Conditions	Status as on 31 <sup>th</sup> March' 2023
		The Solid Waste Management Plan for Mangaluru International Airport is attached as <b>Annexure-2</b> .
IV.	The project proponent should install adequate measures to harvest rainwater to meet at least 25% of the water requirement of the airport.	<p><b>Complied.</b></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 <b>Annexure-3</b>.</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> <ol style="list-style-type: none"> <li>Installation of sensor-based taps and urinals in terminal.</li> <li>Installation of aerators in washbasin taps for water saving. 100% of treated sewage from STP is being reused in gardening.</li> </ol>
V.	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><b>Complied</b></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 October-2022 to March-2023 are attached as <b>Annexure-4</b>.</p> <p>Further, the entire treated sewage is used for gardening/ green belt development.</p>

  
26/05/2023

<b>adani</b>	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

<b>Sr. No.</b>	<b>Conditions</b>	<b>Status as on 31<sup>th</sup> March' 2023</b>
		To provide adequate treatment to the <b>quantities of sewage, an additional treatment plant</b> of 500 KLD STP is under construction.
VI.	The quarry material required for construction of the project should be brought from approved quarries.	<b>Complied.</b> Construction activity has already completed.
VII.	All conditions stipulated by the State Pollution Control Board, Groundwater Authority etc., should be strictly implemented.	<b>Complied</b> Consent for Operation from KSPCB has been renewed vide dtd. 18 <sup>th</sup> March 2022. Copy attached as <b>Annexure-5</b> .  Hazardous Waste Authorization is obtained on 30 <sup>th</sup> August 2022. Copy attached as <b>Annexure-6</b> .  Approval for Groundwater extraction of 600 KLD is received from Karnataka Ground Water Authority vide dtd. 02 <sup>nd</sup> February 2022. Copy attached as <b>Annexure-7</b> .
<b>A. General Conditions</b>		
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.	<b>Complied.</b>  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	<b>Complied.</b>  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.

*Vijay Shah*  
26/05/2023



	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

Sr. No.	Conditions	Status as on 31 <sup>th</sup> March' 2023
	Bangalore) and State Pollution Control Board.	Environmental Monitoring Plan and analysis reports are attached in <b>Annexure-8</b> . Previous six-monthly compliance report submitted to MoEFCC RO for the period April-22 to Sept-2022 is attached as <b>Annexure-9</b> .
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.	<b>Complied.</b> 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.	<b>Complied as Point No. V of Specific Condition.</b>
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.	<b>Complied as Point No. VI of Specific Condition.</b>
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

*Vinod Shah*  
26/05/2023

<b>adani</b>	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

Sr. No.	Conditions	Status as on 31 <sup>th</sup> March' 2023
		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.	<b>Complied</b>  Best practices and Environment Management Plan being implemented are annexed as <b>Annexure-10</b> . 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.	<b>Complied</b>  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 <b>Annexure-11</b> .
X.	The project affected people, if any should be properly compensated and rehabilitated.	<b>Not applicable</b>
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.	<b>Complied</b>  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.213 Lacs has been spent for environmental management measures (Environment Monitoring, Horticulture, Solid Waste Management,

*Vinod*  
26/05/2023



	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

Sr. No.	Conditions	Status as on 31 <sup>th</sup> March' 2023
		STP O&M, Awareness, ESG initiatives etc) during Oct-2022 to March 2022. During the compliance period (Apr2-2022 to September 2022) INR 113 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.	<b>Being Complied</b> 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. IRO, Bangalore visited the site on 05-09-2022. Based on the observations of compliance of EC conditions, IRO issued certificate of compliance of Environmental Clearance conditions on 22-09-2022
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.	<b>Complied.</b> 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 <b>Annexure-12.</b> Further, the Name change in EC from AMIAL to MIAL has been obtained on 16 <sup>th</sup> February 2022. Copy attached as <b>Annexure-13.</b>
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.	<b>Point Noted</b>
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.	<b>Point Noted</b>
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	<b>Complied</b>

<b>adani</b>	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From: October 2022 To: March 2023</b>
<b>Status of the conditions stipulated in Environment Clearance</b>		

<b>Sr. No.</b>	<b>Conditions</b>	<b>Status as on 31<sup>th</sup> March' 2023</b>
	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 <a href="http://www.envforin.in">http://www.envforin.in</a> . 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 <b>Annexure-14</b> .
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.	<b>Complied.</b>  Construction activity has already been completed and presently the project is under operation Phase.  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 14 <sup>th</sup> February' 2020. As per the above said Concession Agreement, MIAL has commenced the operation with effect from the Commercial Operation Date (COD) i.e. 31 <sup>st</sup> October' 2020.

*Wiroan Sah*  
26/05/2023.



	Mangaluru International Airport Limited (MIAL)	From : Oct' 2022 To : Mar' 2023
Green Cover at Mangaluru International Airport		Annexure-1



Avenue Plantation at parking area



Avenue Plantation at parking area



Green cover near New Terminal Building



	Mangaluru International Airport Limited (MIAL)	From : Oct' 2022 To : Mar' 2023
Green Cover at Mangaluru International Airport		Annexure-1



Aesthetic plantation in terminal building



	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From : Oct' 2022 To : Mar' 2023</b>
<b>Green Cover at Mangaluru International Airport</b>		<b>Annexure-1</b>

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	Acasia 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 iniphyllum
24	Canna india dwarf
25	Caralia anteggerima
26	Caryota urens
27	Caryota urens
28	Cassia alata
29	Cassia alata
30	cassia fistuala
31	Casuarina equisetifolia
32	Chasalia curviflora
33	Clerodendron paniculatam
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

	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From : Oct' 2022 To : Mar' 2023</b>
<b>Green Cover at Mangaluru International Airport</b>		<b>Annexure-1</b>

49	Dracaena victoriae
50	Dracena tricolor
9	Epiprenum 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	Hibisucs 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	Peltaphorum 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 albam
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	Terminlaia catappa
60	Vernonia SP.
61	Wadelia sp
62	Zamia zamiculus

	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From : Oct '2022 To : Mar'2023</b>
<b>Solid Waste Management Plan</b>		<b>Annexure-2</b>

## Solid Waste Management Plan - Mangaluru International Airport

### Generation:

At present, Mangaluru International Airport generates an average of around 100 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. MS Scrap 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.

	Mangaluru International Airport Limited (MIAL)	From : Oct '2022 To : Mar'2023
Solid Waste Management Plan		Annexure-2



**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



	Mangaluru International Airport Limited (MIAL)	From : Oct '2022 To : Mar'2023
Solid Waste Management Plan		Annexure-2



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



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

	Mangaluru International Airport Limited (MIAL)	From : Oct '2022 To : Mar'2023
Solid Waste Management Plan		Annexure-2



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

	Mangaluru International Airport Limited (MIAL)	From : Oct' 2022 To : Mar' 2022
Rainwater Collection tank at Mangaluru International Airport		Annexure-3



(a)

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



Driven by Quality. Inspired by Science.

**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/22/11204/006  
Issued Date : 2022.11.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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**SAMPLE PARTICULARS****: STP WATER**

Frequency Of Sampling : One Grab sample in a Month  
Month of Sampling : October 2022  
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 : 19.10.2022  
Analysis Start Date : 21.10.2022  
Analysis Completion Date : 31.10.2022  
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	7.35	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	32	12.4	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	645	561	2100
4	Total Nitrogen	APHA 4500-B	mg/L	43	3.8	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	142	39.5	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	51.2	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	36	<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	233	10.6	<100

GPS - STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E

STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Sivakumar Madireddy  
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/22/13052/006  
Issued Date : 2022.12.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

**SAMPLE PARTICULARS : STP WATER**

Frequency Of Sampling : One Grab sample in a Month  
Month of Sampling : November 2022  
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 : 22.11.2022  
Analysis Start Date : 24.11.2022  
Analysis Completion Date : 02.12.2022  
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	--	7.54	7.92	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	52	16.6	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	754	661	2100
4	Total Nitrogen	APHA 4500-B	mg/L	51	6.8	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	182	22.7	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	60.7	7.7	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	43	<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	412	28.6	<100

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

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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



Driven by Quality. Inspired by Science.

**ISSUED TO:**

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

Report Number : VLL/VLS/22/15057/006  
Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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**SAMPLE PARTICULARS**

: STP WATER

Frequency Of Sampling : One Grab sample in a Month  
Month of Sampling : December 2022  
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 : 20.12.2022  
Analysis Start Date : 22.12.2022  
Analysis Completion Date : 31.12.2022  
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	--	7.04	7.12	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	67	18.2	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	602	524	2100
4	Total Nitrogen	APHA 4500-B	mg/L	44.7	8.2	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	125	20	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	43.8	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	35	<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	386	42	<100

GPS - STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E

STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. 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/22/17258/006  
Issued Date : 2023.02.06  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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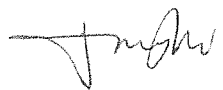
**SAMPLE PARTICULARS : STP WATER**

Frequency Of Sampling : One Grab sample in a Month  
Month of Sampling : January 2023  
Test Required : pH; Total Suspended Solids; Total Dissolved Solids; Total Nitrogen; Chemical Oxygen Demand; Biological Oxygen Demand; Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.  
Sample Collected On : 24.01.2023  
Analysis Start Date : 25.01.2023  
Analysis Completion Date : 04.02.2023  
Sample collected by Vimta Labs Ltd.,

**TEST REPORT**

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.53	7.31	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	48	15.2	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	755	582	2100
4	Total Nitrogen	APHA 4500-B	mg/L	34.3	6.8	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	125	34	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	43.8	7.3	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	43	<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	462	68	<100

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

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment



**Vimta Labs Limited**

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

**ISSUED TO:**

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

Report Number : VLL/VLS/22/19360/006  
Issued Date : 2023.03.11  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

**SAMPLE PARTICULARS : STP WATER**

Frequency Of Sampling : One Grab sample in a Month  
Month of Sampling : February 2023  
Test Required : pH: Total Suspended Solids: Total Dissolved Solids: Total Nitrogen: Chemical Oxygen Demand: Biological Oxygen Demand: Oil and Grease: and Ammonical Nitrogen. Free Residual Chlorine and Fecal Coliform.  
Sample Collected On : 22.02.2023  
Analysis Start Date : 24.02.2023  
Analysis Completion Date : 06.03.2023  
Sample collected by Vimta Labs Ltd.,

**TEST REPORT**

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.34	6.98	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	52.7	10.5	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	723	510	2100
4	Total Nitrogen	APHA 4500-B	mg/L	29.7	5.1	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	220	30	50
6	Biological Oxygen Demand at 27°C. 3 days	IS:3025 P-44	mg/L	49.1	8.0	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	37	<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	714	85	<100

GPS - STP Inlet water : 12° 57'02.147"N. 74°52'15.003"E

STP Outlet Water : 12° 57'01.682"N. 74°52'14.651"E

Dr. 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

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

Report Number : VLL/VLS/22/21053/006  
Issued Date : 2023.04.05  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

**SAMPLE PARTICULARS : STP WATER**

Frequency Of Sampling : One Grab sample in a Month  
Month of Sampling : March 2023  
Test Required : pH: Total Suspended Solids: Total Dissolved Solids: Total Nitrogen: Chemical Oxygen Demand: Biological Oxygen Demand: Oil and Grease; and Ammonical Nitrogen, Free Residual Chlorine and Fecal Coliform.  
Sample Collected On : 15.03.2023  
Analysis Start Date : 17.03.2023  
Analysis Completion Date : 29.03.2023  
Sample collected by Vimta Labs Ltd.,

**TEST REPORT**

Sr.No	Parameters	Method Adopted	UoM	STP Inlet Water	STP Outlet Water	KSPCB Standard
1	pH	IS:3025 P-11	--	7.80	7.05	6.5 - 9.0
2	Total Suspended Solids	IS:3025 P-17	mg/L	63.2	12.5	20
3	Total Dissolved Solids	IS:3025 P-16	mg/L	804	581	2100
4	Total Nitrogen	APHA 4500-B	mg/L	25.4	6.6	10
5	Chemical Oxygen Demand	APHA 5220B	mg/L	123	28	50
6	Biological Oxygen Demand at 27°C, 3 days	IS:3025 P-44	mg/L	41.6	7.5	10
7	Oil and Grease	APHA 5520-C	mg/L	<1.0	<1.0	10
8	Ammonical Nitrogen	APHA 4500-F	mg/L	45.2	<0.1	5
9	Total Residual Chlorine	IS:3025 P-26	mg/L	<0.1	<0.1	1
10	Fecal Coliform	EPA Method 1681: 2006	MPN/100ml	830	46	<100

GPS - STP Inlet water : 12° 57'02.147"N, 74°52'15.003"E

STP Outlet Water : 12° 57'01.682"N, 74°52'14.651"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment



Consent For Operation  
(CFO-Air,Water)

Consent No. AW-330415  
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

Annexure-5

Industry Colour: RED Industry Scale: LARGE

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

Combined Consent Order No. AW-330415 PCB ID: 11931 Date: 18/03/2022

Combined consent for discharge of effluents under the Water (Prevention and Control of Pollution) Act, 1974 and emission under the Air (Prevention and Control of Pollution) Act, 1981

- Ref: 1. Application filed by the applicant/organization on 10/12/2021  
2. Inspection of the Industry/organization/by RO, on 10/12/2021  
3. Proceedings of the ECM dated 01/01/2022, held on 21/12/2022

Consent is hereby granted to the Occupier under Section 25(4) of the Water (Prevention & Control of Pollution) Act, 1974 (herein referred to as the Water Act) & Section 21 of Air (Prevention & Control of Pollution) Act, 1981, (herein referred to as the Air Act) and the Rules and Orders made there under and authorized the Occupier to operate /carryout industry/activity & to make discharge of the effluents & emissions confirming to the stipulated standards from the premises mentioned below and subject to the terms and conditions as detailed in the Schedule Annexed to this order.

Location:

Name of the Industry: Ms. Mangaluru International Airport Limited  
Address: Mangalore Airport, Bajpe  
Industrial Area: Not In I.A, Mangalore,  
Taluk: Mangalore, District: Dakshina Kannada

CONDITIONS:

a) Discharge of effluents under the Water Act:

Sr	Water Code	WC(KLD)	WWG(KLD)	Remark
1	Cooling Water	5.000	0.000	Recycled
2	Domestic Purpose	150.000	120.000	

b) Discharge of Air emissions under the Air Act from the following stacks etc.

Sl. No.	Description of chimney/outlet	Limits specified refer schedule
The details of Sources, control equipments and its specification, type of fuel, constituents to be controlled in emissions etc. are detailed in Annexure-II.		

The consent for operation is granted considering the following activities/Products;

Sr	Product Name	Applied Qty/Month	Unit
1	Airport operations	1.0000	NOS

This consent is valid for the period from 01/07/2021 to 30/06/2026

To,  
Ms. Mangaluru International Airport Limited  
Mangalore

COPY TO:

The Environmental Officer, KSPCB, Regional Office Mangalore for information and necessary action.

2. Master Register.  
3. Case file.

Consent Fee paid : Rs. 4000000





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

**Consent No. AW-330415  
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**

Industry Colour: RED      Industry Scale: LARGE

(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 confirm 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**

**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**

Industry Colour: RED      Industry Scale: LARGE

(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 & TRANSBOUNDARY 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 be 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**

**Karnataka State Pollution Control Board  
Parisara Bhavana, No.49, Church  
Street, Bengaluru-560001  
Tele : 080-25589112/3, 25581383  
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Industry Colour: RED

Industry Scale: LARGE

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

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

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

Chimney No.	Chimney attached to	Capacity/ KVA Rating	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)	107,179,0.46	DIE	AEC	Before commissioning.
2	D.G. Sets	30 KVA	1	PM(mg/NM3), SO2 (PPM), NOx(PPM)	107,179,0.46	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)	143.3,358.4,5.07	DIE	N.A	Before commissioning.
5	D.G. Sets	750kVA	6	PM(mg/NM3), SO2 (PPM), NOx(PPM)	83.33,209.4,0.51	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)	53.33,109.5,0.41	DIE	N.A	Before commissioning.
13	D.G. Sets	25kVA	0	PM(mg/NM3), SO2 (PPM), NOx(PPM)	107,179,0.46	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 : Accoustic Enclosures  
N.A : Not Applicable

- Note:**
- 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.
  - The DG set shall be provided with acoustic measures as per SI.No.94 in Schedule-I of Environment (Protection) Rules.
  - 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**

**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**

Industry Colour: RED      Industry Scale: LARGE

(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 diameters 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.

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

- 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
- 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.
- 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

**Signature Not Verified**

Digitally signed by  
Date: 2022.03.18 12:01:54  
+05:30



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**

**Annexure-6**

(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.,
I	33.1~Empty barrels/containers/liners contaminated with hazardous chemicals /wastes	1.000	M.T	As Per Annexure
I	5.1~Used Spent Oil	4.650	MTA	As Per Annexure
I	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**  
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**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

Annexure-7

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 3 A 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	19, Adani Mangaluru International Airport, Near exit , MANGALURU taluk
2	181, Adani Mangaluru International Airport, Near Harsh Construction Office, MANGALURU taluk
3	165, Adani Mangaluru International Airport, Near windsock, MANGALURU taluk
4	144, Adani Mangaluru International Airport, Opposite Bay 8, MANGALURU taluk
5	19, Adani Mangaluru International Airport, Near Domestic cargo, MANGALURU taluk
6	94, Adani Mangaluru International Airport, Near DVOR, MANGALURU taluk
7	77, Adani Mangaluru International Airport, Near MET station, MANGALURU taluk
8	78, Adani Mangaluru International Airport, Behind fire station, MANGALURU taluk
9	78, Adani Mangaluru International Airport, Beside NATS building, MANGALURU taluk
10	137, Adani Mangaluru International Airport, behind MT, MANGALURU taluk
11	19, Adani Mangaluru International Airport, Near OTB, MANGALURU taluk



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**

Digitally signed by  
Date: 2022.02.15 14:11:03 IST  
Reason: Digitally Signed





**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

**Vimta**

Driven by Quality. Inspired by Science.

**ISSUED TO:**

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

Report Number : VLL/VLS/22/11204/001  
Issued Date : 2022.11.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

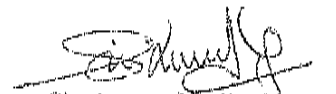
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: October 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM10, PM2.5, SO2 and NO2,
Sample collected by	Vimta labs Ltd

**TEST REPORT**

Date of Sampling	RESULTS ( $\mu\text{g}/\text{m}^3$ )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
03.10.2022	25.3	61.4	17.3	20.4
06.10.2022	30.5	57.3	20.2	24.1
10.10.2022	27.4	60.4	21.4	25.3
12.10.2022	30.4	59.1	18.7	20.1
17.10.2022	28.8	58.0	23.7	26.9
19.10.2022	29.9	56.1	20.6	25.1
25.10.2022	31.6	60.3	17.8	22.0
27.10.2022	27.8	54.4	20.7	24.1
Minimum	25.3	54.4	17.3	20.1
Maximum	31.6	61.4	23.7	26.9
Average	29.0	58.4	20.1	23.5
98%ile	31.4	61.3	23.4	26.7
NAAQ Standard	60	100	80	80

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

GPS - AAQ1: Near Runway 6 (Airside). 12° 56.876' N, 74° 52.466' E

  
Sivakumar Madireddy  
Group Leader-Environment

**ISSUED TO:**

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

Report Number : VLL/VLS/22/11204/002  
Issued Date : 2022.11.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

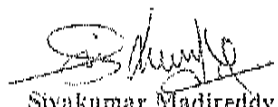
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: October 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM10, PM2.5, SO2 and NO2.
Sample collected by Vimta labs Ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
03.10.2022	28.6	58.5	19.4	24.5
06.10.2022	31.9	60.2	20.6	25.3
10.10.2022	29.8	62.9	21.5	26.4
12.10.2022	25.6	59.5	19.7	23.3
17.10.2022	30.6	55.3	22.5	27.3
19.10.2022	29.5	57.0	25.1	25.4
23.10.2022	32.8	63.0	20.2	23.4
27.10.2022	25.8	56.3	21.3	27.9
Minimum	25.6	55.3	19.4	23.3
Maximum	32.8	63.0	25.1	27.9
Average	29.3	59.1	21.3	25.5
98%ile	32.7	63.0	24.7	27.8
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ2: Near Car Parking Area: 12° 57'05.71"N, 74°52'18.65"E

  
Sivakumar Madireddy  
Group Leader-Environment

**ISSUED TO:**

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

Report Number : VLL/VLS/22/11204/003  
Issued Date : 2022.11.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

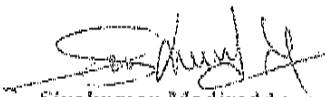
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: October 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2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

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
03.10.2022	30.8	52.4	16.6	20.3
06.10.2022	26.2	57.5	20.1	23.1
10.10.2022	28.3	53.3	16.0	18.6
12.10.2022	27.4	50.8	19.0	23.2
17.10.2022	32.1	56.5	16.8	20.2
19.10.2022	29.6	57.3	20.5	22.4
25.10.2022	28.4	59.6	16.1	19.3
27.10.2022	31.3	55.3	17.9	20.1
Minimum	26.2	50.8	16.0	18.6
Maximum	32.1	59.6	20.5	23.2
Average	29.3	55.3	17.9	20.9
98%ile	32.0	59.3	20.4	23.2
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ3: Near Old Terminal Building: 12° 57'49.47"N, 74°53'27.51"E

  
Sivakumar Madireddy  
Group Leader-Environment



**ISSUED TO:**

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

Report Number : VLL/VLS/22/11204/004  
Issued Date : 2022.11.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

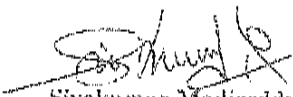
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: October 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2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

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
03.10.2022	27.3	56.3	16.8	24.0
06.10.2022	32.7	62.4	19.2	21.7
10.10.2022	29.5	61.9	17.5	20.1
12.10.2022	24.5	59.0	19.6	23.2
17.10.2022	27.4	61.9	17.3	24.1
19.10.2022	26.3	62.1	18.0	22.9
25.10.2022	31.6	56.3	19.6	24.0
27.10.2022	28.7	60.1	18.4	22.2
Minimum	24.5	56.3	16.8	20.1
Maximum	32.7	62.4	19.6	24.1
Average	28.5	60.0	18.3	22.8
98%ile	32.5	62.4	19.6	24.1
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ4: Near NATS Building: 12° 57'33.60"N, 74°53'13.99"E

  
Sivakumar Madireddy  
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.,  
BAIPE MAIN RD,  
KENJAR HC,  
KARNATAKA 574142.

Report Number : VLL/VLS/22/13052/001  
Issued Date : 2022.12.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

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

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.11.2022	29.2	56.3	19.1	23.1
03.11.2022	28.6	55.1	22.0	26.0
07.11.2022	30.2	58.2	24.6	27.2
09.11.2022	28.5	56.9	20.5	22.0
14.11.2022	27.1	55.8	19.4	22.1
16.11.2022	26.8	59.6	22.4	25.6
21.11.2022	28.1	58.1	19.6	23.9
23.11.2022	26.4	52.2	23.4	26.0
28.11.2022	29.5	55.3	18.9	21.7
30.11.2022	27.2	58.2	21.8	24.3
Minimum	26.4	52.2	18.9	21.7
Maximum	30.2	59.6	24.6	27.2
Average	28.2	56.6	21.2	24.2
98%ile	30.1	59.3	24.4	27.0
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ1: Near Runway 6 (Airside). 12° 56.876' N, 74° 52.466' E

**Dr. Subba Reddy Mallampati**  
Dy. Manager-Environment

**Vimta Labs Limited**

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

**ISSUED TO:**

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

Report Number : VLL/VLS/22/13052/002  
Issued Date : 2022.12.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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	: November 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> .
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS ( $\mu\text{g}/\text{m}^3$ )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.11.2022	25.8	55.2	21.2	23.6
03.11.2022	28.4	58.0	22.4	27.2
07.11.2022	27.9	60.7	23.3	28.3
09.11.2022	30.4	57.3	21.5	25.2
14.11.2022	28.7	53.1	24.3	26.2
16.11.2022	27.6	54.8	18.4	23.6
21.11.2022	30.9	60.8	22.0	25.3
23.11.2022	27.4	53.6	20.4	23.2
28.11.2022	29.5	61.8	25.3	27.4
30.11.2022	26.7	57.4	23.7	25.1
Minimum	25.8	53.1	18.4	23.2
Maximum	30.9	61.8	25.3	28.3
Average	28.3	57.4	22.3	25.5
98%ile	30.8	61.6	25.1	28.1
NAAQ Standard	60	100	80	80

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

GPS - AAQ2: Near Car Parking Area: 12° 57'05.71"N, 74°52'18.65"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment



**Vimta Labs Limited**

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

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Report Number : VLL/VLS/22/13052/003  
Issued Date : 2022.12.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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	: November 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24, SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub>
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (ug/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.11.2022	26.4	55.8	19.3	22.2
03.11.2022	28.1	51.5	20.4	25.0
07.11.2022	26.4	56.2	17.8	20.5
09.11.2022	25.5	48.6	21.5	25.1
14.11.2022	29.4	54.3	18.6	22.1
16.11.2022	27.7	55.1	17.3	20.8
21.11.2022	33.5	57.4	17.9	21.2
23.11.2022	27.5	53.1	19.7	22.0
28.11.2022	31.4	49.3	20.3	24.2
30.11.2022	28.4	54.2	18.4	21.6
Minimum	25.5	48.6	17.3	20.5
Maximum	33.5	57.4	21.5	25.1
Average	28.4	53.5	19.1	22.5
98%ile	33.1	57.2	21.3	25.1
NAAQ Standard	60	100	80	80

All the above values are expressed in ug/m<sup>3</sup>

GPS - AAQ3: Near Old Terminal Building: 12° 57'49.47"N, 74°53'27.51"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

Registered Office

142, IDA Phase II, Cherlapally

Hyderabad-500 051, Telangana, India

T : +91 40 2726 4141

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P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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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	: November 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182 P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM10, PM2.5, SO2 and NO2.
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m³)			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.11.2022	25.4	54.1	18.6	22.8
03.11.2022	30.8	60.2	21.0	23.6
07.11.2022	27.6	59.7	19.3	22.0
09.11.2022	22.6	56.8	21.4	25.1
14.11.2022	25.5	59.7	19.1	22.4
16.11.2022	24.4	59.9	17.3	21.8
21.11.2022	29.7	54.1	21.4	25.9
23.11.2022	26.8	57.9	20.2	24.1
28.11.2022	24.6	64.8	17.3	25.1
30.11.2022	31.8	59.1	19.3	21.4
Minimum	22.6	54.1	17.3	21.4
Maximum	31.8	64.8	21.4	25.9
Average	26.9	58.6	19.5	23.4
98%ile	31.6	64.0	21.4	25.8
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

GPS - AAQ4: Near NATS Building: 12° 57'33.60"N, 74°53'13.99"E

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
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Report Number : VLL/VLS/22/15057/001  
Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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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 : December 2022  
Sampling & Analysis Method : PM<sub>10</sub> - IS:5182 P-23; PM<sub>2.5</sub> - IS:5182 P-24; SO<sub>2</sub> - IS:5182 P2 &  
NO<sub>2</sub> - IS:5182 P-6;  
Test Required : PM<sub>10</sub>, PM<sub>2.5</sub>, SO<sub>2</sub> and NO<sub>2</sub>.  
Sample collected by Vimta labs ltd

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
05.12.2022	32.4	60.1	22.3	26.4
07.12.2022	31.8	58.9	20.7	23.4
12.12.2022	33.4	62.3	23.5	24.5
14.12.2022	31.7	58.3	22.2	27.4
19.12.2022	30.3	55.3	21.1	24.2
21.12.2022	30.0	63.4	24.1	30.4
26.12.2022	31.3	61.9	21.3	26.0
28.12.2022	29.6	56.0	25.1	28.1
Minimum	29.6	55.3	20.7	23.4
Maximum	33.4	63.4	25.1	30.4
Average	31.3	59.5	22.5	26.3
98%ile	33.3	63.2	25.0	30.1
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ1: Near Runway 6 (Airside); 12° 56.876' N, 74° 52.466' E

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

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Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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	: December 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, PM2.5, 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 <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
05.12.2022	23.7	52.7	19.5	24.5
07.12.2022	26.4	56.2	24.6	26.2
12.12.2022	29.4	53.7	21.4	25.5
14.12.2022	31.9	53.4	23.7	27.6
19.12.2022	30.2	56.6	26.5	31.5
21.12.2022	29.1	58.3	20.6	26.0
26.12.2022	24.6	54.2	24.2	29.5
28.12.2022	28.9	57.1	22.6	25.6
Minimum	23.7	52.7	19.5	24.5
Maximum	31.9	58.3	26.5	31.5
Average	28.0	55.3	22.9	27.1
98%ile	31.7	58.1	26.2	31.2
NAAQ Standard	60	100	80	80

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

GPS - AAQ2:Near Car Parking Area: 12° 57'05.71"N, 74°52'18.65"E

Dr. SubbaReddyMallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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Report Number : VLL/VLS/22/15057/003  
Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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 : December 2022  
Sampling & Analysis Method : PM10 - IS:5182 P-23; PM2.5 - IS:5182 P-24; SO2 - IS:5182 P2 &  
NO2 - IS:5182 P-6;  
Test Required : PM10, PM2.5, SO2 and NO2.  
Sample collected by Vimta labs ltd

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
05.12.2022	22.6	52.9	21.5	24.1
07.12.2022	26.7	49.2	22.5	26.9
12.12.2022	25.0	46.2	19.2	22.4
14.12.2022	24.1	50.4	22.9	27.0
19.12.2022	26.8	55.4	20.0	24.0
21.12.2022	26.3	52.8	21.1	22.7
26.12.2022	28.1	55.1	19.3	23.1
28.12.2022	25.6	50.8	21.1	25.3
Minimum	22.6	46.2	19.2	22.4
Maximum	28.1	55.4	22.9	27.0
Average	25.7	51.6	21.0	24.4
98%ile	27.9	55.4	22.8	27.0
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ3: Near Old Terminal Building: 12° 57'49.47"N, 74°53'27.51"E

Dr. SubbaReddy Mallampati  
Dy. Manager-Environment

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KARNATAKA 574142.

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Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

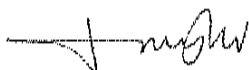
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: December 2022
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub>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

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
05.12.2022	24.0	51.8	23.6	27.2
07.12.2022	29.4	57.9	22.4	25.5
12.12.2022	26.2	57.4	20.7	26.3
14.12.2022	21.2	54.5	22.8	28.6
19.12.2022	24.1	57.4	21.4	24.3
21.12.2022	23.0	57.6	18.7	23.7
26.12.2022	28.3	51.8	22.8	27.8
28.12.2022	25.4	55.6	19.4	22.6
Minimum	21.2	51.8	18.7	22.6
Maximum	29.4	57.9	23.6	28.6
Average	25.2	55.5	21.5	25.8
98%ile	29.2	57.9	23.5	28.5
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ4: Near NATS Building: 12° 57'33.60"N, 74°53'13.99"E

  
Dr. SubbaReddy Mallampati  
Dy. Manager-Environment

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Report Number : VLL/VLS/22/17258/001  
Issued Date : 2023.02.06  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

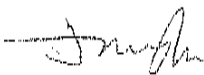
Frequency Of Sampling	Weekly Twice
Time Weighted Average	24 Hours
Month of Monitoring	January 2023
Sampling & Analysis Method	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> .
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
02.01.2023	34.8	63.2	19.9	23.9
04.01.2023	36.2	57.2	22.4	25.1
09.01.2023	35.8	65.4	21.1	27.4
11.01.2023	34.0	68.3	24.7	32.5
16.01.2023	32.6	56.3	23.6	27.4
18.01.2023	32.3	66.7	20.5	28.2
23.01.2023	33.6	65.2	22.2	29.2
25.01.2023	31.9	59.3	25.3	31.3
30.01.2023	35.2	63.1	22.8	27.1
Minimum	31.9	56.3	19.9	23.9
Maximum	36.2	68.3	25.3	32.5
Average	34.0	62.7	22.5	28.0
98%ile	36.1	68.0	25.2	32.3
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ1: Near Runway 6 (Airside) 12° 56.876' N, 74° 52.466' E

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment



Vimta Labs Limited  
Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
F : +91 40 2726 3667



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Report Number : VLL/VLS/22/17258/002  
Issued Date : 2023.02.06  
P. Order Ref : 5700315733  
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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	: January 2023
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> .
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
02.01.2023	30.2	55.9	22.1	27.6
04.01.2023	34.1	62.3	22.6	28.1
09.01.2023	32.6	56.9	24.0	28.6
11.01.2023	29.7	60.3	21.7	25.4
16.01.2023	33.4	59.8	28.2	34.6
18.01.2023	32.3	65.2	23.2	29.1
23.01.2023	27.8	57.4	26.8	32.6
25.01.2023	32.1	60.3	25.2	28.7
30.01.2023	34.2	63.3	21.5	33.5
Minimum	27.8	55.9	21.5	25.4
Maximum	34.2	65.2	28.2	34.6
Average	31.8	60.2	23.9	29.8
98%ile	34.2	64.9	28.0	34.4
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ2: Near Car Parking Area: 12° 57'05.71"N, 74°52'18.65"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

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



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Issued Date : 2023.02.06  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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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	: January 2023
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, PM2.5, SO2 and NO2.
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m³)			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
02.01.2023	25.8	47.3	17.5	27.2
04.01.2023	24.5	52.5	19.6	24.7
09.01.2023	28.2	54.2	21.8	25.5
11.01.2023	26.4	47.3	17.4	22.3
16.01.2023	24.4	58.6	20.5	27.1
18.01.2023	29.5	56.0	18.4	25.8
23.01.2023	24.5	49.6	20.6	26.2
25.01.2023	28.8	54.0	16.5	28.4
30.01.2023	30.2	51.6	18.5	23.7
Minimum	24.4	47.3	16.5	22.3
Maximum	30.2	58.6	21.8	28.4
Average	26.9	52.3	19.0	25.7
98%ile	30.1	58.2	21.6	28.2
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

GPS - AAQ3: Near Old Terminal Building: 12° 57'49.47"N, 74°53'27.51"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

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



**ISSUED TO:**

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

Report Number : VLL/VLS/22/17258/004  
Issued Date : 2023.02.06  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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	: January 2023
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, PM2.5, SO2 and NO2.
Sample collected by	Vimta labs ltd

**TEST REPORT**

Date of Sampling	RESULTS (µg/m³)			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
02.01.2023	27.2	55.0	19.5	24.6
04.01.2023	23.8	54.8	20.4	22.5
09.01.2023	28.3	50.4	17.5	25.1
11.01.2023	25.3	60.2	20.8	26.4
16.01.2023	27.3	54.3	18.4	23.5
18.01.2023	26.2	52.6	21.3	26.8
23.01.2023	24.5	55.0	16.7	24.5
25.01.2023	28.6	58.8	20.7	22.7
30.01.2023	25.9	53.2	19.4	24.7
Minimum	23.8	50.4	16.7	22.5
Maximum	28.6	60.2	21.3	26.8
Average	26.3	54.9	19.4	24.5
98%ile	28.6	60.0	21.2	26.7
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

GPS - AAQ4; Near NATS Building: 12° 57'33.60"N, 74°53'13.99"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**ISSUED TO:**

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LIMITED.,  
BAJPE MAIN RD,  
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KARNATAKA 574142.

Report Number : VLL/VLS/22/19360/004  
Issued Date : 2023.03.11  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

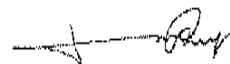
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: February 2023
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5- IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub>
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.02.2023	24.8	57.7	16.3	21.6
06.02.2023	28.1	62.1	15.9	19.5
08.02.2023	26.5	55.7	14.5	23.6
13.02.2023	23.5	52.5	18.9	21.8
15.02.2023	29.7	61.5	14.6	22.0
20.02.2023	24.4	58.2	15.4	20.8
22.02.2023	27.4	62.8	14.3	23.0
27.02.2023	26.8	55.4	18.5	23.0
Minimum	23.5	52.5	14.3	19.5
Maximum	29.7	62.8	18.9	25.0
Average	26.4	58.2	16.1	22.2
98%ile	29.5	62.7	18.8	24.8
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ4: Near NATS Building: 12° 57'33.60"N, 74° 53'13.99"E

  
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/22/19360/003  
Issued Date : 2023.03.11  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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	: February 2023
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 <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> .
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.02.2023	27.5	50.0	15.6	25.7
06.02.2023	22.7	55.2	17.7	33.2
08.02.2023	25.3	56.9	19.9	24.0
13.02.2023	28.3	50.0	15.5	20.8
15.02.2023	22.6	61.3	18.6	25.6
20.02.2023	27.7	58.7	16.5	24.3
22.02.2023	29.4	55.1	18.7	23.1
27.02.2023	27.0	60.3	14.6	26.9
Minimum	22.6	50.0	14.6	20.8
Maximum	29.4	61.3	19.9	26.9
Average	26.3	55.9	17.1	24.2
98%ile	29.2	61.2	19.7	26.7
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ3: Near Old Terminal Building: 12° 57'49.47"N, 74°53'27.51"E

**Dr. SubbaReddy Mallampati**  
Dy. Manager-Environment

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LIMITED.,  
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Report Number : VLL/VLS/22/19360/002  
Issued Date : 2023.03.11  
P. Order Ref : 5700315735  
P.O. Date : 04.10.2022

Page 1 of 1

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

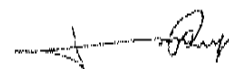
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: February 2023
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> .
Sample collected by Vimta labs Ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.02.2023	33.1	64.2	19.5	30.2
06.02.2023	28.4	58.4	21.7	26.6
08.02.2023	30.8	63.5	20.9	25.3
13.02.2023	32.8	65.3	19.8	30.5
15.02.2023	29.3	63.1	23.8	32.5
20.02.2023	35.2	67.9	24.3	27.6
22.02.2023	30.3	62.4	25.1	31.1
27.02.2023	34.1	64.7	25.1	31.6
Minimum	28.4	58.4	19.5	25.3
Maximum	35.2	67.9	25.1	32.5
Average	31.8	63.7	22.3	29.4
98 %ile	35.0	67.5	25.0	32.4
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ2:Near Car Parking Area: 12° 57'05.71" N, 74°52'18.65" E



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 3857

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KARNATAKA 574142.

Report Number : VLL/VLS/22/19360/001  
Issued Date : 2023.03.11  
P. Order Ref : 5760315733  
P.O. Date : 04.10.2022

Page 1 of 1

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

Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: February 2023
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182 P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6;
Test Required	: PM10, PM2.5, SO2 and NO2.
Sample collected by Vimta labs hd	

**TEST REPORT**

Date of Sampling	RESULTS ( $\mu\text{g}/\text{m}^3$ )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.02.2023	36.6	65.8	20.3	27.4
06.02.2023	33.2	60.3	17.8	26.3
08.02.2023	37.6	63.8	23.8	28.1
13.02.2023	35.8	59.3	23.5	30.6
15.02.2023	34.4	58.9	20.5	22.7
20.02.2023	34.1	69.3	16.4	20.4
22.02.2023	35.4	70.3	21.0	26.6
27.02.2023	33.7	61.9	20.9	24.2
Minimum	33.2	58.9	16.4	20.4
Maximum	37.6	70.3	23.8	30.6
Average	35.1	63.7	20.5	25.8
98%ile	37.5	70.2	23.8	30.3
NAAQ Standard	60	100	80	80

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

GPS - AAQ1: Near Runway 6 (Airside) 12° 56.876' N, 74° 52.466' E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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KARNATAKA 574142.

Report Number : VLL/VLS/23/21053/001  
Issued Date : 2023.04.05  
P. Order Ref : 5700315723  
P.O. Date : 04.10.2022

Page 1 of 1

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


Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: March 2023
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	: PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub>
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>10</sub>	Particulates Matter as PM <sub>2.5</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.03.2023	39.4	72.4	18.3	25.3
06.03.2023	35.2	67.3	15.9	23.2
08.03.2023	40.8	74.2	21.3	25.0
13.03.2023	38.6	63.0	19.6	28.5
15.03.2023	37.2	70.2	22.1	20.6
20.03.2023	36.9	73.0	18.6	18.3
22.03.2023	39.1	66.2	21.8	23.5
27.03.2023	42.5	57.8	18.4	21.1
29.03.2023	37.6	72.5	21.5	24.6
Minimum	35.2	57.8	15.9	18.3
Maximum	42.5	74.2	22.1	28.5
Average	38.6	68.5	19.7	23.3
98%ile	42.2	74.0	22.1	28.0
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ1 Near Runway 6 (Airside) 12° 56.876' N, 74° 53.466' E

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment



**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
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Report Number : VLL/VLS/22-21053/002  
Issued Date : 2023/04/05  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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	March 2023
Sampling & Analysis Method	PM10 - IS:5182 P-23; PM2.5 - IS:5182P-24; SO <sub>2</sub> - IS:5182 P2 & NO <sub>2</sub> - IS:5182 P-6;
Test Required	PM <sub>10</sub> , PM <sub>2.5</sub> , SO <sub>2</sub> and NO <sub>2</sub> .
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m <sup>3</sup> )			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.03.2023	36.1	67.9	22.6	27.5
06.03.2023	31.6	61.7	19.2	23.5
08.03.2023	28.2	59.4	18.4	27.1
13.03.2023	35.6	69.0	22.9	28.4
15.03.2023	32.1	66.8	23.4	30.4
20.03.2023	38.0	70.3	18.4	25.5
22.03.2023	27.7	58.3	22.6	28.0
27.03.2023	31.5	60.6	20.6	25.8
29.03.2023	34.7	68.3	23.7	30.4
Minimum	27.7	58.3	18.4	23.5
Maximum	38.0	70.3	23.7	30.4
Average	32.8	64.7	21.3	27.4
98%ile	37.7	70.1	23.7	30.4
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m<sup>3</sup>

GPS - AAQ2, Near Car Parking Area: 12° 57'05.71"N, 74° 52'18.65"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**ISSUED TO:**

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

Report Number : VLL/VLS 22 21053-003  
Issued Date : 2023/04/05  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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	March 2023
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, PM2.5, 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 <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.03.2023	30.3	60.3	18.7	23.6
06.03.2023	26.1	51.1	15.2	20.1
08.03.2023	33.6	57.3	17.4	23.7
13.03.2023	31.1	53.7	18.6	24.1
15.03.2023	25.4	65.0	15.5	23.5
20.03.2023	30.5	62.4	17.3	27.1
22.03.2023	26.8	51.0	16.2	20.0
27.03.2023	24.4	56.2	14.8	23.8
29.03.2023	32.8	66.4	17.1	25.2
Minimum	24.4	51.0	14.8	20.0
Maximum	32.8	66.4	18.7	27.1
Average	28.4	58.2	16.8	23.5
98%ile	32.6	66.2	18.7	26.8
NAAQ Standard	60	100	80	80

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

GPS - AAQ3: Near Old Terminal Building: 12° 57'49.47"N, 74°55'27.51"E



Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**ISSUED TO:**

M/S. MANGALURU INTERNATIONAL AIRPORT  
LIMITED.,  
BAJPE MAIN RD,  
KENJAR BC,  
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Report Number : VLL/VLS/22-21053/004  
Issued Date : 2023/04/05  
P. Order Ref : 5700015733  
P.O. Date : 04/10/2022

Page 1 of 1

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

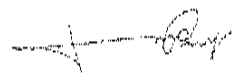
Frequency Of Sampling	: Weekly Twice
Time Weighted Average	: 24 Hours
Month of Monitoring	: March 2023
Sampling & Analysis Method	: PM10 - IS:5182 P-23; PM2.5 - IS:5182 P-24; SO2 - IS:5182 P2 & NO2 - IS:5182 P-6.
Test Required	: PM10, PM2.5, SO2 and NO2.
Sample collected by Vimta labs ltd	

**TEST REPORT**

Date of Sampling	RESULTS (µg/m³)			
	Particulates Matter as PM <sub>2.5</sub>	Particulates Matter as PM <sub>10</sub>	Sulphur Dioxide as SO <sub>2</sub>	Nitrogen Dioxide as NO <sub>2</sub>
01.03.2023	27.6	61.4	19.4	23.8
06.03.2023	25.5	58.0	13.4	16.4
08.03.2023	23.9	51.5	12.0	20.5
13.03.2023	26.3	56.2	14.3	19.7
15.03.2023	32.3	65.2	17.7	25.3
20.03.2023	27.2	61.9	18.2	20.8
22.03.2023	24.8	58.7	12.9	19.9
27.03.2023	28.4	51.3	16.0	21.9
29.03.2023	33.7	66.3	14.3	23.8
Minimum	23.9	51.3	12.0	16.4
Maximum	33.7	66.3	19.4	25.3
Average	27.8	59.0	15.4	21.3
98%ile	33.5	66.1	19.2	25.1
NAAQ Standard	60	100	80	80

All the above values are expressed in µg/m³

GPS - AAQ4: Near NATS Building: 12° 57'31.60"N, 74°53'13.99"E

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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KARNATAKA 574142

Report Number : VLL/VLS/22/15057/014  
Issue Date : 2023.01.09  
P.O. Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 1

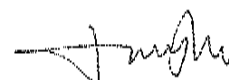
Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO <sub>2</sub> , Nitrogen dioxides as NO <sub>2</sub> , Ozone (O <sub>3</sub> ), Carbon monoxide (CO), Ammonia (NH <sub>3</sub> ), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C <sub>6</sub> H <sub>6</sub> ) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-12-21
Analysis Starting Date :	2022-12-23
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 <sup>3</sup>	IS-5182(P-23)	63.4	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	30.0	60
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-02)	24.1	80
4	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-06)	30.4	80
5	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Method-411	15.2	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	532	02
7	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks:**

Carbon Monoxide detectable Limit 10µg/m<sup>3</sup>  
Lead Detectable Limit 0.01µg/m<sup>3</sup>  
Arsenic and Nickel Detectable Limit 2ng/m<sup>3</sup>  
Benzene Detectable Limit 2 µg/m<sup>3</sup>  
Ba(P) Detectable Limit 0. 2ng/m<sup>3</sup>



Dr. Subba Reddy Mallampati  
Dy. Manager-Environment



**Vimta Labs Limited**

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

**ISSUED TO**

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

Report Number : VLL/VLS/22/15057/015  
Issue Date : 2023.01.09  
P.O. Ref : 5700315733  
P.O. Date : 04.10.2022

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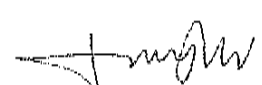
Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO <sub>2</sub> , Nitrogen dioxides as NO <sub>2</sub> , Ozone (O <sub>3</sub> ), Carbon monoxide (CO), Ammonia (NH <sub>3</sub> ), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C <sub>6</sub> H <sub>6</sub> ) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-12-21
Analysis Starting Date :	2022-12-23
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 <sup>3</sup>	IS-5182(P-23)	58.3	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	29.1	60
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-02)	20.6	80
4	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-06)	26.0	80
5	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Method-411	13.7	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	517	02
7	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks:**

Carbon Monoxide detectable Limit 10µg/m<sup>3</sup>  
Lead Detectable Limit 0.01µg/m<sup>3</sup>  
Arsenic and Nickel Detectable Limit 3ng/m<sup>3</sup>  
Benzene Detectable Limit 2 µg/m<sup>3</sup>  
B(a)P Detectable Limit 0.2ng/m<sup>3</sup>

  
Dr. Subha Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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KARNATAKA 574142

Report Number : VLL/VLS/22/15057/016  
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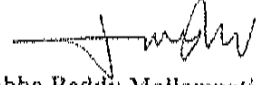
Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO <sub>2</sub> , Nitrogen dioxides as NO <sub>2</sub> , Ozone (O <sub>3</sub> ), Carbon monoxide (CO), Ammonia (NH <sub>3</sub> ), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C <sub>6</sub> H <sub>6</sub> ) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-12-21
Analysis Starting Date :	2022-12-23
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 <sup>3</sup>	IS-5182(P-23)	52.8	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	26.3	60
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-02)	21.1	80
4	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-06)	22.7	80
5	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Method-411	11.4	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	0.481	02
7	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks**

Carbon Monoxide detectable Limit 10µg/m<sup>3</sup>  
Lead Detectable Limit 0.01µg/m<sup>3</sup>  
Arsenic and Nickel Detectable Limit 2ng/m<sup>3</sup>  
Benzene Detectable Limit 2 µg/m<sup>3</sup>  
BaP Detectable Limit 0.2ng/m<sup>3</sup>

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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Report Number : VLL/VLS/22/15057/017  
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P.O. Ref : 5700315733  
P.O. Date : 04.10.2022

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Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO2, Nitrogen dioxides as NO2, Ozone (O3), Carbon monoxide (CO), Ammonia (NH3), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C6H6) and Benzo (A) Pyrene (BaP).
Sampling Date :	2022-12-21
Analysis Starting Date :	2022-12-23
Sampling Duration (minutes)	1440
Sampling Location :	Near NALS Building

**TEST REPORT**

Sr. No	Test parameters	UoM	Method of Testing	Results	NAAQS Limits
1	Particulate Matter as PM10	µg/m <sup>3</sup>	IS-5182(P-23)	57.6	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	23.0	60
3	Sulphur dioxide as SO2	µg/m <sup>3</sup>	IS-5182 (Part-02)	18.7	80
4	Nitrogen dioxide as NO2	µg/m <sup>3</sup>	IS-5182 (Part-06)	23.7	80
5	Ozone (O3)	µg/m <sup>3</sup>	Method-411	8.8	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	0.452	02
7	Ammonia (NH3)	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C6H6)	µg/m <sup>3</sup>	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks:**

Carbon Monoxide detectable Limit 10µg/m<sup>3</sup>  
Lead Detectable Limit 0.01µg/m<sup>3</sup>  
Arsenic and Nickel Detectable Limit 2ng/m<sup>3</sup>  
Benzene Detectable Limit 2 µg/m<sup>3</sup>  
BaP Detectable Limit 0. 2ng/m<sup>3</sup>



Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

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KARNATAKA 574142**

Report Number : VLL/VLS/22/21053/015  
Issue Date : 2023.04.05  
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 <sub>2</sub> , Nitrogen dioxides as NO <sub>2</sub> , Ozone (O <sub>3</sub> ), Carbon monoxide (CO), Ammonia (NH <sub>3</sub> ), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C <sub>6</sub> H <sub>6</sub> ) and Benzo (A) Pyrene (BaP).
Sampling Date :	2023-03-09
Analysis Starting Date :	2023-03-11
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 <sup>3</sup>	IS-5182(P-23)	72.4	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	39.3	60
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-02)	19.1	80
4	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-06)	27.1	80
5	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Method-411	13.9	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	0.517	02
7	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	ASTM D 3656-95	BDL	05
12	Benzo (A) Pyrene (BaP)	µg/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks:**

Carbon Monoxide detectable Limit 10 µg/m<sup>3</sup>  
Lead Detectable Limit 0.1 µg/m<sup>3</sup>  
Arsenic and Nickel Detectable Limit 2 µg/m<sup>3</sup>  
Benzene Detectable Limit 2 µg/m<sup>3</sup>  
BaP Detectable Limit 0.2 µg/m<sup>3</sup>

  
Dr. Subha Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

Registered Office

142, IDA Phase II, Cherlapally

Hyderabad-500 051, Telangana, India

T : +91 40 2726 4141

F : +91 40 2726 3657



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Report Number : VLL/VLS/22-21053 016

Issue Date : 2023.04.05

P.O. Ref : 3700312428


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 <sub>2</sub> , Nitrogen dioxides as NO <sub>2</sub> , Ozone (O <sub>3</sub> ), Carbon monoxide (CO), Ammonia (NH <sub>3</sub> ), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C <sub>6</sub> H <sub>6</sub> ) and Benzo (A) Pyrene (BaP).
Sampling Date :	2023-03-21
Analysis Starting Date :	2023-03-23
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 <sup>3</sup>	IS-5182(P-23)	67.4	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	36.5	60
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-02)	21.8	80
4	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-06)	28.7	80
5	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Method-411	12.8	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	0.492	02
7	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks**Carbon Monoxide detectable Limit 10 µg/m<sup>3</sup>Lead Detectable Limit 0.1 µg/m<sup>3</sup>Arsenic and Nickel Detectable Limit 2 ng/m<sup>3</sup>Benzene Detectable Limit 2 µg/m<sup>3</sup>BaP Detectable Limit 0.1 ng/m<sup>3</sup>
  
 Dr. Subba Reddy Mallampati  
 Dy. Manager-Environment



**Vimta Labs Limited**

Registered Office

142, IDA Phase II, Cherlapally

Hyderabad-500 051, Telangana, India

T : +91 40 2726 4141

F : +91 40 2726 3857



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KARNATAKA 574142

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Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO <sub>2</sub> , Nitrogen dioxides as NO <sub>2</sub> , Ozone (O <sub>3</sub> ), Carbon monoxide (CO), Ammonia (NH <sub>3</sub> ), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C <sub>6</sub> H <sub>6</sub> ) and Benzo (A) Pyrene (BaP).
Sampling Date :	2023-03-14
Analysis Starting Date :	2023-03-15
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 <sup>3</sup>	IS-5182(P-23)	64.8	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	30.7	60
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-02)	15.8	80
4	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-06)	25.4	80
5	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Method-411	11.8	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	0.466	02
7	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks:**Carbon Monoxide detectable Limit 10µg/m<sup>3</sup>Lead Detectable Limit 0.01µg/m<sup>3</sup>Arsenic and Nickel Detectable Limit 1ng/m<sup>3</sup>Benzene Detectable Limit 2µg/m<sup>3</sup>BaP Detectable Limit 0.1ng/m<sup>3</sup>

Dr. Subba Reddy Mallampati

Dy. Manager-Environment

**Vimta Labs Limited**

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

**ISSUED TO**

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LIMITED.,  
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KARNATAKA 574142

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Page 1 of 1

Sample Name :	Ambient Air Quality Monitoring
Test Required :	Particulate Matter(PM10), Particulate Matter(PM2.5), Sulphur dioxide as SO <sub>2</sub> , Nitrogen dioxides as NO <sub>2</sub> , Ozone (O <sub>3</sub> ), Carbon monoxide (CO), Ammonia (NH <sub>3</sub> ), Lead (Pb), Arsenic (As), Nickel (Ni), Benzene (C <sub>6</sub> H <sub>6</sub> ) and Benzo (A) Pyrene (BaP).
Sampling Date :	2023-03-28
Analysis Starting Date :	2023-03-30
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 <sup>3</sup>	IS-5182(P-23)	59.3	100
2	Particulate Matter as PM2.5	µg/m <sup>3</sup>	IS-5182(P-24)	28.7	60
3	Sulphur dioxide as SO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-02)	17.5	80
4	Nitrogen dioxide as NO <sub>2</sub>	µg/m <sup>3</sup>	IS-5182 (Part-06)	23.9	80
5	Ozone (O <sub>3</sub> )	µg/m <sup>3</sup>	Method-411	9.2	100
6	Carbon monoxide (CO)	mg/m <sup>3</sup>	IS-5182 (Part-10)	0.438	02
7	Ammonia (NH <sub>3</sub> )	µg/m <sup>3</sup>	Indophenol Blue Method	BDL	400
8	Lead (Pb)	µg/m <sup>3</sup>	IS-5182 (Part-22)	BDL	01
9	Arsenic (As)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	06
10	Nickel (Ni)	ng/m <sup>3</sup>	IS-5182 (Part-22)	BDL	20
11	Benzene (C <sub>6</sub> H <sub>6</sub> )	µg/m <sup>3</sup>	ASTM D 3686-95	BDL	05
12	Benzo (A) Pyrene (BaP)	ng/m <sup>3</sup>	USEPA 8270D	BDL	01

**Remarks:**

Carbon Monoxide detectable Limit: 15 µg/m<sup>3</sup>  
Lead Detectable Limit: 0.1 µg/m<sup>3</sup>  
Arsenic and Nickel Detectable Limit: 20 ng/m<sup>3</sup>  
Benzene Detectable Limit: 1 µg/m<sup>3</sup>  
BaP Detectable Limit: 0.1 µg/m<sup>3</sup>

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

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P.O. Date : 04.10.2022

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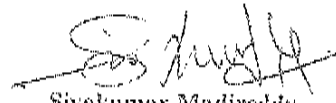
**SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING**

Frequency Of Sampling	: Monthly Once in Each Location
Time Weighted Average	: 24 Hours
Method of Analysis	: IS:9989
Month of Monitoring	: October 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)	20.10.2022	69.1	62.8
2	Near Old Terminal Building	11.10.2022	62.4	56.3
3	Near NATS Building	07.10.2022	63.5	57.4
4	Near Car Parking Area	18.10.2022	66.7	60.9
	Noise Standards for Airport Zone		70.0	65.0

GPS – 1. Near Runway 6 (Air Side) : 12° 56.876' N, 74° 52.466' E  
2. Near Old Terminal Building : 12° 57'49.538"N, 74°53'27.43"E  
3. Near NATS Building : 12° 57'33.582"N, 74°53'14.238"E  
4. Near Car Parking Area : 12° 57'05.502"N, 74°52'19.902"E

  
Sivakumar Madireddy  
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

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Report Number : VLL/VLS/22/13052/005  
Issued Date : 2022.12.07  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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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 : November 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)	22.11.2022	68.9	63.7
2	Near Old Terminal Building	02.11.2022	63.6	58.1
3	Near NATS Building	08.11.2022	64.2	56.2
4	Near Car Parking Area	15.11.2022	65.9	58.7
	Noise Standards for Airport Zone		70.0	65.0

GPS - 1. Near Runway 6 (Air Side) : 12° 56.876' N, 74° 52.466' E  
2. Near Old Terminal Building : 12° 57'49.538"N, 74°53'27.43"E  
3. Near NATS Building : 12° 57'33.582"N, 74°53'14.238"E  
4. Near Car Parking Area : 12° 57'05.502"N, 74°52'19.902"E

Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
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Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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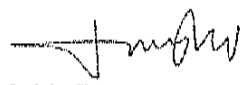
**SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING**

Frequency Of Sampling : Monthly Once in Each Location  
Time Weighted Average : 24 Hours  
Method of Analysis : IS:9989  
Month of Monitoring : December 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)	21.12.2022	69.0	62.9
2	Near Old Terminal Building	20.12.2022	63.7	56.5
3	Near NATS Building	22.12.2022	66.1	57.8
4	Near Car Parking Area	06.12.2022	67.7	60.3
	Noise Standards for Airport Zone		70.0	65.0

GPS - 1. Near Runway 6 (Air Side) : 12° 56.876' N, 74° 52.466' E  
2. Near Old Terminal Building : 12° 57'49.538"N, 74°53'27.43"E  
3. Near NATS Building : 12° 57'33.582"N, 74°53'14.238"E  
4. Near Car Parking Area : 12° 57'05.502"N, 74°52'19.902"E

  
Dr. SubbaReddyMallampati  
Dy. Manager-Environment



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



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Issued Date : 2023.02.06  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

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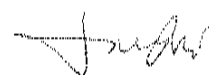
**SAMPLE PARTICULARS : AMBIENT NOISE LEVEL MONITORING**

Frequency Of Sampling : Monthly Once in Each Location  
Time Weighted Average : 24 Hours  
Method of Analysis : IS:9989  
Month of Monitoring : January 2023  
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)	23.01.2023	68.1	64.0
2	Near Old Terminal Building	17.01.2023	64.7	58.3
3	Near NATS Building	03.01.2023	65.8	59.1
4	Near Car Parking Area	10.01.2023	66.4	58.8
	Noise Standards for Airport Zone		70.0	65.0

GPS - 1. Near Runway 6 (Air Side) : 12° 56.876' N, 74° 52.466' E  
2. Near Old Terminal Building : 12° 57'49.558"N, 74°53'27.43"E  
3. Near NATS Building : 12° 57'33.582"N, 74°53'14.238"E  
4. Near Car Parking Area : 12° 57'05.502"N, 74°52'19.902"E

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

Registered Office  
 #2, JDA Phase II, Cherlapally  
 Hyderabad-500 051, Telangana, India  
 T : +91 40 2726 4141  
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 Issued Date : 2023.03.11  
 P. Order Ref : 5700315733  
 P.O. Date : 04.10.2022

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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	: February 2023
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)	21.02.2023	67.2	63.4
2	Near Old Terminal Building	07.02.2023	63.9	57.1
3	Near NATS Building	16.02.2023	64.3	57.7
4	Near Car Parking Area	14.02.2023	65.1	56.9
Noise Standards for Airport Zone			70.0	65.0

GPS - 1.Near Runway 6 (Air Side) : 12° 56.876' N, 74° 52.466' E

2. Near Old Terminal Building : 12° 57'49.538"N, 74°53'27.43"E

3. Near NATS Building : 12° 57'33.582"N, 74°53'14.238"E

4. Near Car Parking Area : 12° 57'05.502"N, 74°52'19.902"E

Dr. SubbaReddy Mallampati  
 Dy. Manager-Environment

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Issued Date : 2023.04.05  
P. Order Ref : 57-0315733  
P.O. Date : 04.10.2022


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<b>SAMPLE PARTICULARS</b>	<b>AMBIENT NOISE LEVEL MONITORING</b>
Frequency Of Sampling	Monthly Once in Each Location
Time Weighted Average	24 Hours
Method of Analysis	IS:9989
Month of Monitoring	March 2023
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)	31.03.2023	68.6	61.8
2	Near Old Terminal Building	04.03.2023	65.1	56.4
3	Near NATS Building	28.03.2023	63.4	55.3
4	Near Car Parking Area	21.03.2023	66.7	58.2
	Noise Standards for Airport Zone		70.0	65.0

GPS - 1. Near Runway 6 (Air Side) : 12° 56.876' N, 74° 52.466' E  
2. Near Old Terminal Building : 12° 57' 09.538" N, 74° 53' 27.43" E  
3. Near NATS Building : 12° 57' 33.382" N, 74° 57' 14.238" E  
4. Near Car Parking Area : 12° 57' 05.502" N, 74° 52' 19.802" E

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

Vimta Labs Limited  
Registered Office  
142, IDA Phase II, Cheriapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
F : +91 40 2726 3057



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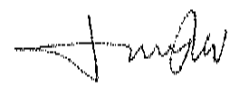
Page 1 of 1

**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 : December 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		
Date of Monitoring	Results-d(B)A		
	L-Day	L-night	L-equivalent
Day-1: 01 <sup>st</sup> December 2022	51.6	42.5	48.3
Day-2: 02 <sup>nd</sup> December 2022	53.1	41.6	49.8
Day-3: 03 <sup>rd</sup> December 2022	52.7	43.1	48.0
Day-4: 04 <sup>th</sup> December 2022	54.2	42.3	50.7
Day-5: 05 <sup>th</sup> December 2022	53.8	43.8	49.5
Day-6: 06 <sup>th</sup> December 2022	51.6	42.6	47.4
Day-7: 07 <sup>th</sup> December 2022	53.0	44.2	50.1

  
Dr. SubbaReddyMallampati  
Dy. Manager-Environment

Vimta Labs Limited  
Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
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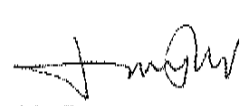
Page 1 of 1

**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 : December 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	Results-d(B)A		
	L-Day	L-night	L-equivalent
Day-1: 08 <sup>th</sup> December 2022	54.0	42.7	51.3
Day-2: 09 <sup>th</sup> December 2022	52.5	41.6	48.9
Day-3: 10 <sup>th</sup> December 2022	51.6	43.2	47.5
Day-4: 11 <sup>th</sup> December 2022	49.8	42.7	47.1
Day-5: 12 <sup>th</sup> December 2022	53.2	41.8	50.3
Day-6: 13 <sup>th</sup> December 2022	51.3	43.5	48.7
Day-7: 14 <sup>th</sup> December 2022	52.1	42.1	49.2

  
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Dy. Manager-Environment



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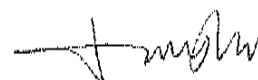
Page 1 of 1

**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:9959  
Month of Monitoring : December 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: 15 <sup>th</sup> December 2022	53.6	44.5	50.4
Day-2: 16 <sup>th</sup> December 2022	56.2	42.7	53.4
Day-3: 17 <sup>th</sup> December 2022	54.2	45.2	51.2
Day-4: 18 <sup>th</sup> December 2022	52.9	43.6	49.5
Day-5: 19 <sup>th</sup> December 2022	54.1	41.7	51.0
Day-6: 20 <sup>th</sup> December 2022	53.7	43.8	49.8
Day-7: 21 <sup>st</sup> December 2022	55.2	44.6	52.0



Dr. SubbaReddyMallampati  
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 3557

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P. Order Ref : 5700315733  
P.O. Date : 04.10.2022


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 : March 2023  
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: 15 <sup>th</sup> March 2023	52.9	43.8	50.2
Day-2: 16 <sup>th</sup> March 2023	51.4	42.6	48.8
Day-3: 17 <sup>th</sup> March 2023	54.0	41.4	52.3
Day-4: 18 <sup>th</sup> March 2023	53.2	43.0	51.1
Day-5: 19 <sup>th</sup> March 2023	52.7	42.1	49.3
Day-6: 20 <sup>th</sup> March 2023	50.8	42.8	48.1
Day-7: 21 <sup>st</sup> March 2023	52.4	41.7	49.4

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**  
Registered-Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
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P. O. Date : 04.10.2022


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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 : March 2023  
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		
	Results-d(B)A		
Date of Monitoring	L-Day	L-Night	L-equivalent
Day-1: 01 <sup>st</sup> March 2023	52.3	43.5	49.7
Day-2: 02 <sup>nd</sup> March 2023	50.8	42.0	47.7
Day-3: 03 <sup>rd</sup> March 2023	53.2	41.8	51.2
Day-4: 04 <sup>th</sup> March 2023	52.9	43.2	48.2
Day-5: 05 <sup>th</sup> March 2023	50.7	42.8	47.6
Day-6: 06 <sup>th</sup> March 2023	54.0	41.8	51.3
Day-7: 07 <sup>th</sup> March 2023	53.8	43.1	50.8

  
**Dr. Subba Reddy Mallampati**  
Dy. Manager-Environment

Vimta Labs Limited  
Registered Office  
142, IDA Phase II, Cherlapally  
Hyderabad-500 051, Telangana, India  
T : +91 40 2726 4141  
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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 : March 2023  
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	Results-d(B)A		
	L-Day	L-night	L-equivalent
Day-1: 08 <sup>th</sup> March 2023	51.6	42.7	48.3
Day-2: 09 <sup>th</sup> March 2023	54.6	43.3	52.2
Day-3: 10 <sup>th</sup> March 2023	53.8	44.8	51.1
Day-4: 11 <sup>th</sup> March 2023	51.5	42.1	48.6
Day-5: 12 <sup>th</sup> March 2023	55.1	43.0	53.1
Day-6: 13 <sup>th</sup> March 2023	54.1	41.7	52.3
Day-7: 14 <sup>th</sup> March 2023	52.8	42.6	49.5

  
Dr. Subha Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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P. Order Ref : 5700315733  
P. Order Date : 04.10.2022


Page 1 of 1

SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING  
PLACE OF DG SET INSTALLED : NITB Building  
Sampling Date : 2023.01.25  
Frequency of Monitoring : Half Yearly  
Monitoring Month : January 2023  
Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	* Limits
Physical Parameters								
1	Capacity	KVA	-	750	750	750	40	--
2	Stack diameter	m	-	0.3	0.3	0.3	0.1	--
3	Area of the Stack	m <sup>2</sup>	-	0.071	0.071	0.071	0.008	--
4	Flue gas Temperature	°C	USEPA M-2	136.8	140.4	131.8	136.8	--
5	Velocity of the Flue gas	m/Sec		11.1	10.5	10.3	9.0	--
6	Volumetric Flow rate	Nm <sup>3</sup> /hr		2690	2344	2496	242	--
Chemical Parameters								
7	Sulphur Dioxide	mg/Nm <sup>3</sup>	USEPA CTM30&34	14	15.43	14.74	9.4	--
8	Carbon Monoxide @ 15% O2	mg/Nm <sup>3</sup>		298.93	279.54	288.26	346.82	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.072	0.948	0.959	2.101	
10	Oxides of Nitrogen@ 15% O2	mg/Nm <sup>3</sup>		659.11	644.89	651.93	442.07	NO <sub>x</sub> + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.364	2.188	2.169	2.678	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm <sup>3</sup>		1.39	2.72	3.48	3.89	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.005	0.009	0.012	0.024	
12	Particulate Matter@15% O2	mg/ Nm <sup>3</sup>	USEPA M-5	22.03	24.47	22.07	14.99	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.079	0.083	0.073	0.091	

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

  
Dr. SubbaReddy Mallampati  
Dy. Manager-Environment

**ISSUED TO:**

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

Report Number : VLI/VLS/22/17258/010  
Issued Date : 2023.02.06  
P. Order Ref : 5700315733  
P. Order Date : 04.10.2022

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

Sampling Date : 2023.01.25  
Frequency of Monitoring : Half Yearly  
Monitoring Month : January 2023  
Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	DG4	* Limits
Physical Parameters								
1	Capacity	KVA	-	750	750	750	40	--
2	Stack diameter	m	-	0.3	0.3	0.3	0.1	--
3	Area of the Stack	m <sup>2</sup>	-	0.071	0.071	0.071	0.008	--
4	Flue gas Temperature	°C	USEPA M-2	136.8	140.4	131.8	136.8	--
5	Velocity of the Flue gas	m/Sec		11.1	10.5	10.3	9.0	--
6	Volumetric Flow rate	Nm <sup>3</sup> /hr		2690	2544	2496	242	--
Chemical Parameters								
7	Sulphur Dioxide	mg/Nm <sup>3</sup>	USEPA CTM30&34	14	15.43	14.74	9.4	--
8	Carbon Monoxide @ 15% O2	mg/Nm <sup>3</sup>		298.93	279.54	288.26	346.82	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.072	0.948	0.959	2.101	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		659.11	644.89	651.93	442.07	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		2.364	2.188	2.169	2.678	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm <sup>3</sup>		1.39	2.72	3.48	3.89	≤ 0.2
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.005	0.009	0.012	0.024	
12	Particulate Matter@15% O2	mg/ Nm <sup>3</sup>	USEPA M-5	22.03	24.47	22.07	14.99	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.079	0.083	0.073	0.091	

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

  
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

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LIMITED.,  
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SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING  
PLACE OF DG SET INSTALLED : OLD AIRPORT TERMINAL

Sampling Date : 2023.01.24  
Frequency of Monitoring : Half Yearly  
Monitoring Month : January 2023  
Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	DG3	* Limits
Physical Parameter							
1	Capacity	KVA	-	500	250	30	--
2	Stack diameter	m	-	0.3	0.3	0.1	--
3	Area of the Stack	m <sup>2</sup>	-	0.071	0.071	0.008	--
4	Flue gas Temperature	°C	USEPA M-2	113.1	107.0	109.3	--
5	Velocity of the Flue gas	m/Sec		10.2	8.6	7.0	--
6	Volumetric Flow rate	Nm <sup>3</sup> /hr		2472	2084	188	--
Chemical Parameters							
7	Sulphur Dioxide	mg/Nm <sup>3</sup>	USEPA CTM30&34	22.9	20.0	9.1	--
8	Carbon Monoxide @ 15% O2	mg/Nm <sup>3</sup>		203.69	91.73	54.03	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.007	0.765	0.339	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		353.10	289.34	91.57	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.745	2.412	0.575	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm <sup>3</sup>		2.47	2.26	1.17	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr	0.012	0.019	0.007		
12	Particulate Matter@15% O2	mg/ Nm <sup>3</sup>	USEPA M-5	15.23	10.53	5.65	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.075	0.088	0.035	

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

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Dy. Manager-Environment

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

Sampling Date : 2023.01.24  
Frequency of Monitoring : Half Yearly  
Monitoring Month : January 2023  
Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	750	750	--
2	Stack diameter	m	-	0.3	0.3	--
3	Area of the Stack	m <sup>2</sup>	-	0.071	0.071	--
4	Flue gas Temperature	°C	USEPA M-2	102.8	101.7	--
5	Velocity of the Flue gas	m/Sec		11.7	11.3	--
6	Volumetric Flow rate	Nm <sup>3</sup> /hr		2835	2738	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm <sup>3</sup>	USEPA CTM30&34	20.0	19.7	--
8	Carbon Monoxide @ 15% O2	mg/Nm <sup>3</sup>		366.10	548.27	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.384	2.002	
10	Oxides of Nitrogen@ 15% O2	mg/Nm <sup>3</sup>		322.51	350.73	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		1.219	1.280	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm <sup>3</sup>		2.79	2.67	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.011	0.010	
12	Particulate Matter@ 15% O2	mg/ Nm <sup>3</sup>	USEPA M-5	21.65	21.00	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.082	0.077	

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

  
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

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

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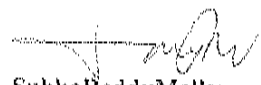
SAMPLE PARTICULARS : DIESEL GENERATOR EMISSION MONITORING  
PLACE OF DG SET INSTALLED : ASR MSSR Area

Sampling Date : 2023.01.24  
Frequency of Monitoring : Half Yearly  
Monitoring Month : January 2023  
Sample Collected by Vimta Labs Ltd.

**TEST REPORT**

Sr. No.	PARAMETERS	UoM	METHOD OF TESTING	DG1	DG2	* Limits
Physical Parameter						
1	Capacity	KVA	-	125	125	--
2	Stack diameter	m	-	0.3	0.3	--
3	Area of the Stack	m <sup>2</sup>	-	0.071	0.071	--
4	Flue gas Temperature	°C	USEPA M-2	112.7	126.6	--
5	Velocity of the Flue gas	m/Sec		10.1	9.6	--
6	Volumetric Flow rate	Nm <sup>3</sup> /hr		272	258	--
Chemical Parameters						
7	Sulphur Dioxide	mg/Nm <sup>3</sup>	USEPA CTM30&34	22.9	14.3	--
8	Carbon Monoxide @ 15% O2	mg/Nm <sup>3</sup>		549.82	598.68	≤ 3.5
9	Carbon Monoxide @ 15% O2	gr/kw-hr		1.196	1.238	
10	Oxides of Nitrogen@ 15% O2	mg/Nm3		186.74	320.72	NOx + HC ≤ 4.0
	Oxides of Nitrogen@ 15% O2	gr/kw-hr		0.406	0.663	
11	Hydro Carbons as CH4@ 15% O2	mg/ Nm <sup>3</sup>		3.46	2.30	
	Hydro Carbons as CH4@ 15% O2	gr/kw-hr		0.008	0.005	
12	Particulate Matter@ 15% O2	mg/ Nm <sup>3</sup>	USEPA M-5	25.50	22.04	≤ 0.2
	Particulate Matter @ 15% O2	gr/kw-hr		0.055	0.046	

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

  
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 2725 3657

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Report Number : VLL/VLS/22/15057/018  
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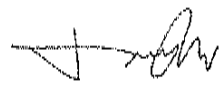
**SAMPLE PARTICULARS : DG NOISELEVEL MONITORING**

Monitored at 1 meter Distance from Acoustic Enclosure

Frequency Of Sampling	: Quarterly Once for Each DG Set
Type of Measurement	: SPOT
Month of Monitoring	: December 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 Measurement	When DG is not in operation (background level)	While DG Running
1	DG 750 kVA - 1	New International Terminal Building (NITB)	23.12.2022	55.3	73.2
2	DG 750 kVA - 2			55.2	72.8
3	DG 750 kVA - 3			57.2	74.2
4	DG 40 kVA - 4			54.8	73.1
5	DG 750 kVA - 5	NATS Building	23.12.2022	55.8	71.8
6	DG 750 kVA - 6			53.8	74.2
7	DG 500 kVA - 7			58.2	73.5
8	DG 250 kVA - 8	OTB	22.12.2022	55.7	72.0
9	DG 30 kVA - 9			53.2	70.3
10	DG 125 kVA - 10			57.2	74.1
11	DG 125 kVA - 11	ASR/MSSR Building	22.12.2022	52.8	73.5
CPCB DG Noise Standard up to 1000 kva: 75 d(B)A					

  
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 3667

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LIMITED.,  
BAJPE MAIN RD.,  
KENJAR HCL,  
KARNATAKA 574142.

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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	: March 2023
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 Measurement	When DG is not in operation (background level)	While DG Running
1	DG 750 kVA - 1	New International Terminal Building (NITB)	22.03.2023	58.1	72.8
2	DG 750 kVA - 2			56.7	74.1
3	DG 750 kVA - 3			55.3	73.7
4	DG 40 kVA - 4			52.0	72.3
5	DG 750 kVA - 5			56.2	73.1
6	DG 750 kVA - 6	NATS Building	22.03.2023	54.2	73.6
7	DG 800 kVA - 7			56.1	71.5
8	DG 250 kVA - 8			56.7	70.7
9	DG 30 kVA - 9	ASR-MSSR Building	22.03.2023	53.3	69.3
10	DG 125 kVA - 10			55.7	72.8
11	DG 125 kVA - 11			56.2	71.6
CPCB DG Noise Standard up to 1000 kva: 75 dB(A)					

Dr. Subha Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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**SAMPLE PARTICULARS** : Soil Sample Quality  
Frequency Of Sampling : One Grab sample in a Six Months  
Month of Sampling : March 2023  
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 : 15.03.2023  
Analysis Start Date : 17.03.2023  
Analysis Completion Date : 29.03.2023  
Sample collected by Vimta Labs Ltd.,

**TEST REPORT**

Sr.No	Parameters	UnM	S1	S2	S3	S4
1	Textural Class	---	Sandy Clay	Sandy Clay	Sandy Clay	Sandy Clay
a	Sand	%	48	45	46	51
b	Silt	%	14	14	15	12
c	Clay	%	38	41	39	37
2	Bulk Density	g/cc	1.23	1.27	1.36	1.34
3	pH (1:5 Aq. Extraction)	---	7.28	7.54	7.62	7.35
4	Conductivity (1:5 Aq. Extraction)	uS/cm	256	212	237	289
5	Exchangeable Calcium as Ca	mg/kg	3254	2983	3647	2834
6	Exchangeable Magnesium as Mg	mg/kg	938	678	1024	791
7	Exchangeable Sodium as Na	mg/kg	72.3	62.4	89.2	84.6
8	Sodium Absorption Ratio (SAR)	---	0.14	0.12	0.19	0.16
9	Available Nitrogen as N	Kg/hae	46.2	54.5	58.6	57.3
10	Available Phosphorous as P	Kg/hae	54.8	72.6	59.3	69.5
11	Available Potassium as K	Kg/hae	121.2	147.6	155.3	142.4
12	Organic Carbon	%	0.16	0.24	0.19	0.26
13	Organic Matter	%	0.28	0.41	0.33	0.45
14	Water Soluble Chlorides as Cl	mg/kg	63.5	82.4	58.4	71.6
15	Water Soluble Sulphates as SO <sub>4</sub>	mg/kg	41.6	52.6	37.8	48.7

**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

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment



**Vimta Labs Limited**

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



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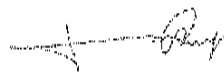
**SAMPLE PARTICULARS** : Soil Sample Quality  
Frequency Of Sampling : One Grab sample in a Six Months  
Month of Sampling : March 2023  
Quantity Collected for Analysis : 1Kg  
Type of Container used for sampling : Leak Proof ZIP Lock Cover  
Test Required : As per ML Jackson Book  
Sample Collected On : 15.03.2023  
Analysis Start Date : 17.03.2023  
Analysis Completion Date : 29.03.2023  
Sample collected by Vimta Labs Ltd.,

**TEST REPORT**

Sr.No	Parameters	UoM	S1	S2	S3	S4
16	Aluminum as Al	%	0.58	0.76	0.64	0.48
17	Total Iron as Fe	%	1.86	2.03	1.56	1.73
18	Manganese as Mn	mg/kg	396	489	385	415
19	Boron as B	mg/kg	25.6	31.5	27.5	23.8
20	Zinc as Zn	mg/kg	42.5	62.3	51.2	36.7
21	Total Chromium as Cr	mg/kg	1.4	1.9	1.5	1.8
22	Lead as Pb	mg/kg	<1.0	<1.0	<1.0	<1.0
23	Nickel as Ni	mg/kg	3.4	2.5	3.1	2.7
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	21.37	19.11	23.75	18.93
28	Exchangeable Magnesium	meq/100g	10.27	7.24	11.11	8.81
29	Exchangeable Sodium	meq/100g	0.41	0.35	0.51	0.49
30	Exchangeable Potassium	meq/100g	0.48	0.59	0.54	0.57
31	Cation Exchange Capacity	meq/100g	32.53	27.28	35.91	28.80

**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

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

**ISSUED TO:**

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BAJPE MAIN RD, KENJAR HC,  
KARNATAKA 574142S

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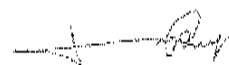
SAMPLE PARTICULARS : Ground Water

**TEST REPORT**

Sr.No.	Parameter	UoM	Method of Testing	GW1	GW2	GW3	GW4	Limits as per IS 10500 : 2012
19	Phosphates as PO <sub>4</sub>	mg/l	APHA 23 <sup>rd</sup> (4500 -P D)	<0.02	<0.02	<0.02	<0.02	--
20	Barium as Ba	mg/l	APHA 23 <sup>rd</sup> 3125	0.015	0.018	0.013	0.011	0.7(NR)
21	Fluoride as F	mg/l	APHA 23 <sup>rd</sup> (4500)	0.2	0.4	0.3	0.5	1.0(1.5)
22	Cobalt as Co	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	--
23	Copper as Cu	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.05(1.5)
24	Manganese as Mn	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.1(0.3)
25	Nickel as Ni	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.02(NR)
26	Total Hardness as CaCO <sub>3</sub>	mg/l	IS 3025 (Part-21)	70.9	56.8	79.1	68.0	200(600)
27	Iron as Fe	mg/l	APHA 23 <sup>rd</sup> 3125	0.06	0.03	0.05	0.02	1.0
28	Silica as SiO <sub>2</sub>	mg/l	APHA 23 <sup>rd</sup> (4500 - SiO <sub>2</sub> )	0.34	0.27	0.23	0.20	--
29	Zinc as Zn	mg/l	APHA 23 <sup>rd</sup> 3125	0.21	0.16	0.12	0.20	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 GTB

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

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M/S. MANGALURE INTERNATIONAL AIRPORT LIMITED.,  
BAJPE MAIN RD, KENJAR H.C.,  
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**SAMPLE PARTICULARS**

Ground Water

Frequency Of Sampling : One Grab sample in a Quarter  
Month of Sampling : March 2023  
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 : 15.03.2023  
Analysis Start Date : 17.03.2023  
Analysis Completion Date : 29.03.2023  
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)	7.02	7.38	6.92	7.44	6.5-8.5 (NR)
2	Salinity	ppt	APHA 23 <sup>14</sup> (2520B)	0.051	0.035	0.053	0.039	--
3	Conductivity	µs/cm	APHA 23 <sup>14</sup> (2510B)	243	176	251	217	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	150	112	158	141	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)	28.4	19.6	35.2	21.0	200(600)
7	Mercury as Hg	mg/l	APHA 23 <sup>16</sup> 3125	<0.001	<0.001	<0.001	<0.001	0.001(NR)
8	Arsenic as As	mg/l	APHA 23 <sup>16</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.01(0.05)
9	Lead as Pb	mg/l	APHA 23 <sup>16</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.01(NR)
10	Chromium as Cr	mg/l	APHA 23 <sup>16</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.05(NR)
11	Cadmium as Cd	mg/l	APHA 23 <sup>16</sup> 3125	<0.003	<0.003	<0.003	<0.003	0.003(0.003)
12	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS 3025 (Part-23)	60.2	50.1	53.8	63.0	200(600)
13	Calcium as Ca	mg/l	IS 3025 (Part-23)	12.4	10.2	14.7	12.7	75(300)
14	Magnesium as Mg	mg/l	IS 3025 (Part-23)	9.7	7.6	10.3	8.8	30(100)
15	Sodium as Na	mg/l	APHA 23 <sup>14</sup> (3500 Na)	22.4	12.6	20.1	17.9	--
16	Potassium as K	mg/l	APHA 23 <sup>14</sup> (3500 K)	1.3	1.2	2.1	1.5	--
17	Sulphates as SO <sub>4</sub>	mg/l	IS 3025 (part-24)	17.3	2.3	16.9	10.5	200(400)
18	Nitrates as NO <sub>3</sub>	mg/l	APHA 23 <sup>17</sup> (4500)	1.7	1.9	4.1	2.7	45(NR)


**Ground Water Locations:**

GW1: Gate No. 04 Apron Area

GW2: Apron pump

GW3: USD Area

GW4: MT OTB

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**ISSUED TO:**

M/S.MANGALURU INTERNATIONAL AIRPORT LIMITED.,  
BAJPE MAIN RD, KENJAR HC,  
KARNATAKA 5741428

Report Number : VLL/VLS/22/15057/010  
Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

SAMPLE PARTICULARS : Ground Water

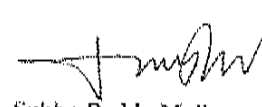
Page 2 of 2

**TEST REPORT**

Sr.No.	Parameter	UoM	Method of Testing	GW1	GW2	GW3	GW4	Limits as per IS 10500 : 2012
19	Phosphates as PO <sub>4</sub>	mg/l	APHA 23 <sup>rd</sup> (4500 -P D)	<0.02	<0.02	<0.02	<0.02	--
20	Barium as Ba	mg/l	APHA 23 <sup>rd</sup> 3125	0.011	0.020	0.016	0.025	0.7(NR)
21	Fluoride as F	mg/l	APHA 23 <sup>rd</sup> (4500)	0.2	0.3	0.8	0.3	1.0(1.5)
22	Cobalt as Co	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	--
23	Copper as Cu	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.05(1.5)
24	Manganese as Mn	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.1(0.3)
25	Nickel as Ni	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.02(NR)
26	Total Hardness as CaCO <sub>3</sub>	mg/l	IS 3025 (Part-21)	58.3	49.8	64.2	53.5	200(600)
27	Iron as Fe	mg/l	APHA 23 <sup>rd</sup> 3125	0.03	0.02	0.04	0.02	1.0
28	Silica as SiO <sub>2</sub>	mg/l	APHA 23 <sup>rd</sup> (4500 - SiO <sub>2</sub> )	0.18	0.12	0.21	0.27	--
29	Zinc as Zn	mg/l	APHA 23 <sup>rd</sup> 3125	0.08	0.06	0.11	0.09	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

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Vimta Labs Limited**

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

# Vimta

Driven by Quality. Inspired by Science.

**ISSUED TO:**

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

Report Number : VLL/VLS/22/15057-010  
Issued Date : 2023.01.09  
P. Order Ref : 5700315733  
P.O. Date : 04.10.2022

Page 1 of 2

**SAMPLE PARTICULARS** : Ground Water


Frequency Of Sampling : One Grab sample in a Quarter  
Month of Sampling : December 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 : 20.12.2022  
Analysis Start Date : 22.12.2022  
Analysis Completion Date : 31.12.2022  
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)	6.87	6.76	6.98	6.92	6.5-8.5 (NR)
2	Salinity	gpt	APHA 23 <sup>nd</sup> (2520B)	0.040	0.035	0.044	0.034	--
3	Conductivity	us/cm	APHA 23 <sup>rd</sup> (2510B)	181	159	202	153	--
4	Total Dissolved Solids	mg/l	IS 3025 (Part 16)	115	98	126	96	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)	22.3	19.8	24.6	18.9	200(600)
7	Mercury as Hg	mg/l	APHA 23 <sup>rd</sup> 3125	<0.001	<0.001	<0.001	<0.001	0.001(NR)
8	Arsenic as As	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.01(0.05)
9	Lead as Pb	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.01(NR)
10	Chromium as Cr	mg/l	APHA 23 <sup>rd</sup> 3125	<0.01	<0.01	<0.01	<0.01	0.05(NR)
11	Cadmium as Cd	mg/l	APHA 23 <sup>rd</sup> 3125	<0.003	<0.003	<0.003	<0.003	0.003(0.003)
12	Total Alkalinity as CaCO <sub>3</sub>	mg/l	IS 3025 (Part-23)	47	39	55	42	200(600)
13	Calcium as Ca	mg/l	IS 3025 (part)	10.5	8.9	11.7	12.2	75(200)
14	Magnesium as Mg	mg/l	IS 3025 (Part)	7.8	6.7	8.5	5.6	30(100)
15	Sodium as Na	mg/l	APHA 23 <sup>rd</sup> (3500 Na)	14.3	12.2	15.1	10.3	--
16	Potassium as K	mg/l	APHA 23 <sup>rd</sup> (3500 K)	1.1	2.1	3.2	1.2	--
17	Sulphates as SO <sub>4</sub>	mg/l	IS 3025 (part-24)	9.6	8.4	7.1	6.2	200(400)
18	Nitrates as NO <sub>3</sub>	mg/l	APHA 23 <sup>rd</sup> (4500)	2.3	3.1	2.7	1.8	45(NR)

**Ground Water Locations:**

GW1: Gate No. 04 Apron Area  
GW2: Apron pump  
GW3: HSD Area  
GW4: MT OTB

  
Dr. Subba Reddy Mallampati  
Dy. Manager-Environment

**Shridhar Mahavarkar**

---

**From:** Shridhar Mahavarkar  
**Sent:** Thursday, December 1, 2022 6:39 PM  
**To:** rosz.bng-mefcc@gov.in  
**Cc:** mefcc.ia3@gmail.com; monitoring-ec@nic.in; ssuresh.cpcb@nic.in;  
ho@kspcb.gov.in; mangalore@kspcb.gov.in; CAO - Mangaluru Airport; Vijayamohan  
Kondeti  
**Subject:** Submission of Half yearly EC Compliance report April-2022 to September 2022-  
Mangaluru International Airport Limited- Reg  
**Attachments:** Mangalore International Airport Half Yearly EC Compliance Report (Apr22 to  
Sep22).pdf

Dear Sir/ Madam,

Mangaluru International Airport Limited (Formerly known as Adani Mangaluru International Airport Limited) is hereby submitting Half yearly Environment Clearance Compliance report for the period April-2022 to September 2022 for your kind perusal and record please.

EC No.10-79/2007-IA-III dated: 1<sup>st</sup> November' 2007.

Thanks and regards,

Shridhar Mahavarkar,  
Environment Department,  
Mangaluru International Airport Limited,  
Mangaluru 574142, Karnataka  
Ph: 8088448464





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

30<sup>th</sup> 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: 28<sup>th</sup> 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

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



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

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

	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From : Oct'2022 To : Mar'2023</b>
<b>Environment Management Plan</b>		<b>Annexure-10</b>

### 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

	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From : Oct'2022 To : Mar'2023</b>
<b>Environment Management Plan</b>		<b>Annexure-10</b>

#### ❖ **Solid Waste Management plan**

At present, Mangaluru International Airport generates an average of around 100 kgs of municipal solid waste. The generation varies with the passengers and visitors' influx. 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 segregates 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. MS Scrap 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.

	Mangaluru International Airport Limited (MIAL)	From : Oct'2022 To : Mar'2023
Environment Management Plan		Annexure-10



**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.

	Mangaluru International Airport Limited (MIAL)	From : Oct'2022 To : Mar'2023
Environment Management Plan		Annexure-10



(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.



	Mangaluru International Airport Limited (MIAL)	From : Oct'2022 To : Mar'2023
Environment Management Plan		Annexure-10



(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.

	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From : Oct'2022 To : Mar'2023</b>
<b>Environment Management Plan</b>		<b>Annexure-10</b>

❖ **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 daylight.
- ✓ 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.

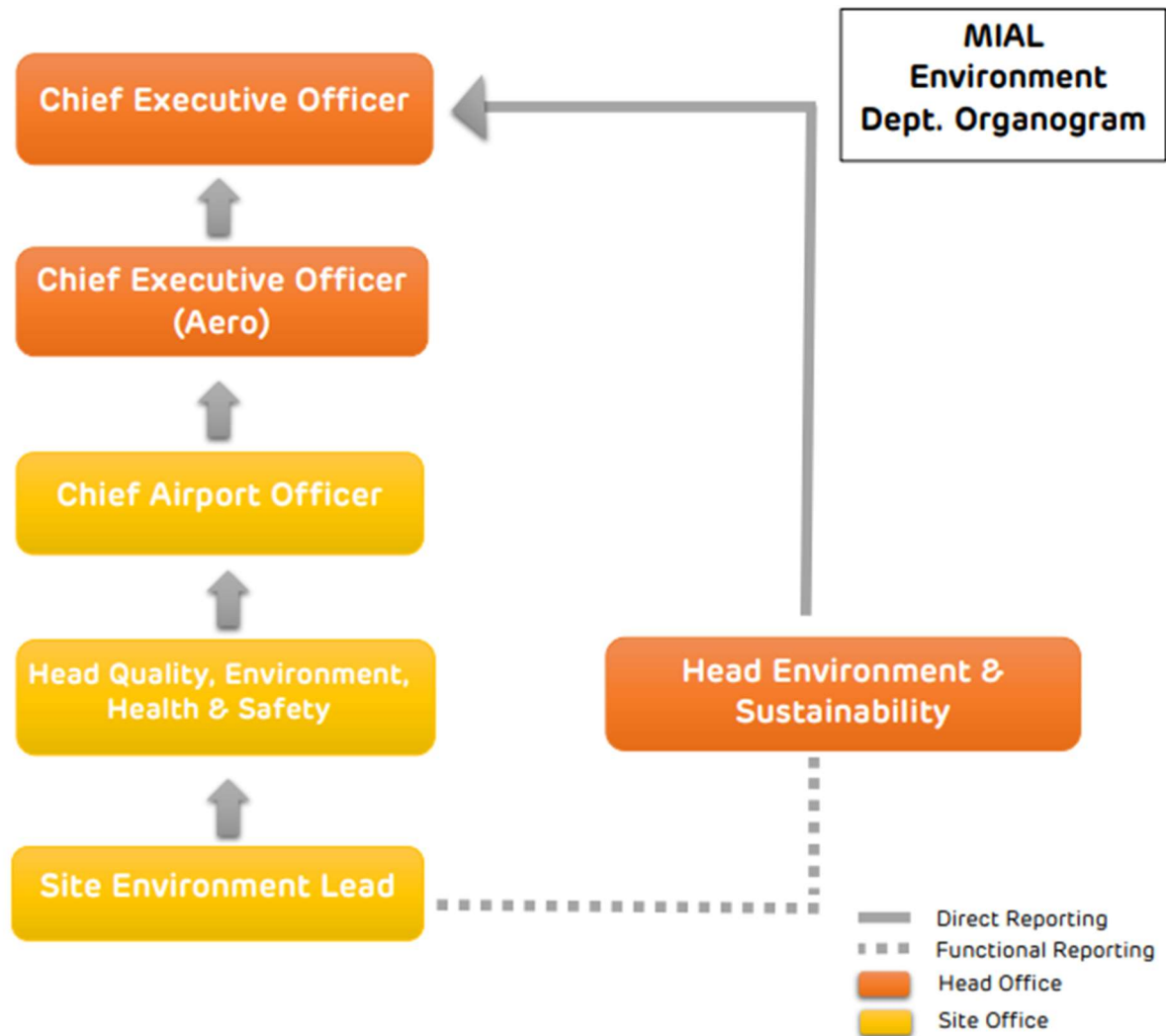
1. Transitioned 6 no.s of airport owned conventional vehicles to Electric Vehicles (EV)
1. Installed 02 Electric Vehicle Charging station (EVCS) to facilitate usage of electric vehicles for airport operations and passenger travel.
2. Replaced 151 no.s of CO2 type fire extinguishers in FY 22 with a lower 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.

	<b>Mangaluru International Airport Limited (MIAL)</b>	<b>From : Oct'2022 To : Mar'2023</b>
<b>Environment Management Plan</b>		<b>Annexure-10</b>

### **Environmental Monitoring Plan**

<b>Sl. No.</b>	<b>Environmental Issues</b>	<b>Parameters</b>	<b>Locations</b>	<b>Frequency</b>
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, SO <sub>x</sub> , NO <sub>x</sub> ,	Car Parking, Runway 6, OTB and NATS	Weekly twice
5.	Ambient Air Quality Monitoring	CO, HC Ozone, Lead (Pb), Ammonia (NH <sub>3</sub> ), Benzene (C <sub>6</sub> H <sub>6</sub> ) 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	SO <sub>2</sub> , NO <sub>2</sub> , CO, CH <sub>4</sub> , 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

	Mangaluru International Airport Limited (MIAL)	From : Oct'2022 To : Mar'2023
Environment Cell Organogram		Annexure-11





**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

**3<sup>rd</sup> 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 (SZ), Kendriya Sadan, 4<sup>th</sup> Floor, E&F Wing, 17<sup>th</sup> 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, 4<sup>th</sup> and 5<sup>th</sup> 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  
16<sup>th</sup> 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, Khodiyar,  
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)**

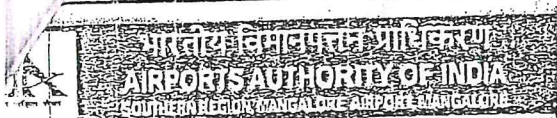
Copy to:

1. The Principal Secretary, Department of Environment, Government of Karnataka, Bangaluru-860001
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)**





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

vide their letter No.16-79/2007-1(A)-III dated 01.11.2007. Recorded Environmental clearance to the above project and 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.envfomc.in>

Government of Karnataka

## CENTRE FOR e-GOVERNANCE

Established by the Government of Karnataka under e-Governance Secretariat, N.P.A.R. (AR) and registered under Karnataka Societies Registration, Act, 1960

No. 108, First Floor, M.S. Building, Bangalore - 560 001, Phone : 080-2237 1090 Telefax : 080-2237 1089

02 SWAN 2008

Date : 21.02.2008

### TENDER NOTIFICATION

Ministry of Karnataka State Wide Area Network (KSWAN) Project structure, Centre for e-Governance invites offers from individuals / agencies, for Providing WAN Services Expertise on Network and Security, for a period of 12 months.

Interested parties (individuals/agencies), can obtain details of the project, from the Government of Karnataka's unified e-procurement portal [www.eproc.karnataka.gov.in](http://www.eproc.karnataka.gov.in) interested parties shall submit their offers electronically, through the e-procurement unified portal [www.eproc.karnataka.gov.in](http://www.eproc.karnataka.gov.in) on or before 29th February 2008, 4.00 pm. Individuals / agencies shall register online, in the e-procurement portal for submission of offers. All techno-commercial and EMD details to be submitted electronically.

Sd/- (N.TABROO) Project Director,  
KSWAN and Deputy Secretary, e-Governance

**STATE BANK OF MYSORE**  
SME BRANCH  
CSI LAYOUT II MAIN B.H. ROAD TUMKUR 572 102  
PHONE:08162275028 FAX:08162279162 EMAIL: [ssitumkur@sbm.co.in](mailto:ssitumkur@sbm.co.in)

PUBLIC AUCTION SALE of the Immovable property under the Securitisation and Reconstruction of Financial Assets and enforcement of Security Interest Act 2002.

### DESCRIPTION OF IMMOVABLE PROPERTIES

Sy.No. 24/3, Khatha No. 189, New No. 510, measuring 1 acre 34 G. (out of which 1 acre 25 g converted for Industrial purpose), and Industrial shed situated at Kora Village, Kora hobli, Tumkur Tq. belongs to Sri. K. Narasimha murthy prop. M/s Laxmi Pipe Industries bounded on North : Hanumalah Land, West Rudramuniyappa land, East Rudraiah Land, South Narasiyappa land.

Name of the Borrower : M/s Laxmi Pipe Industries,  
Prop. K. Narasimha Murthy  
Date of Auction : 24-03-2008  
Place of Auction : At the branch premises  
Reserve Price : 2313000/-

### TERMS AND CONDITIONS:

1. To participate in the auction the intending bidders have to deposit 10% of the reserve price money of the property being auctioned by way of Demand Draft/Pay Order favoring the "Authorized Officer, State Bank of Mysore, SME Branch, Tumkur A/c: Lakshmi Pipe Industries" on or before 3.00 P.M. on the date of auction.
2. The successful bidder should pay 25% of the bid amount immediately on the same and the balance of 75% within 15 days thereafter. If the successful bidder defaults in affecting payment or fails to adhere to the terms of sale in any manner, the amount already deposited will be forfeited and he/she shall not have any claim on such forfeited amount.
3. All other charges, expenses like legal, stamp duty, registration fee, arrears of tax charged if any, shall be borne by the purchaser only. The sale will be on "as is where is basis".
4. The EMD of the unsuccessful bidders would be returned immediately on conclusion of the auction.
5. The Authorized Officer shall have powers to accept or reject bids or postpone/cancel the auction without assigning any reason thereof including addition or deletion of other terms.
6. For inspection of the property and other particulars, the intending bidders may contact the Authorized officer available at the above address. They are at liberty to make their own inspection assessments/enquiry about the property.
7. The property will not be sold below the RESERVE PRICE.

Place : Tumkur  
Date : 21-02-2008

Authorized Officer  
State Bank of Mysore  
SME, Branch, Tumkur.



**Ferro**  
(A Go)  
Equipm  
Post Bo  
Phone

### NOTICE

TENDER REF.	DESCRIP
TN-08/07-08	Crawler M Diesel H Excavator Operating 44 MT. or
TN-09/07-08	Crawler M Diesel H Excavator Operating 20 MT. or

Visit our website : [www.ferro.com](http://www.ferro.com)

### PUI

Public are hereby informed that mentioned property from Smt. at No. 230/B-14, 37th Cross, 560010. Persons objecting to the right in the schedule property within 10 days of the publication thereof will not be binding purchase the below mentioned objections.

**SCHEDULE:** All that No. M-2 (Municipal Sub No. 10) storied commercial complex total super built area of 285 sq. share, right, title and Inter Municipal No. 139 (Old Seshadripuram, Bangalore).

East by :  
West by :  
North by :  
South by :

Place : Bangalore  
Date : 15.02.2008

Off: # 12, S.S. Complex, Bangalore - 5

ಗಾಲಿಕೆ

18-2-2008

13 2003,

ಪ್ರದದ ಮಾರೀಕರಿಗೆ ಈ ಪ್ರಕ್ರಿಯೆ ತೆಗೆದುಕೊಳ್ಳುವುದು, ಬಂದಿರುವ ನಿಯಮಗಳಿಗೆ ಗುಣವಾಗಿರುವ ಅಂದರೆ ತಿದ್ದುಪಡಿ ತೆಗೆದುಕೊಳ್ಳುವುದು, ಸ್ಟಾಂಪ್ ಕಾಯ್ದೆ 1957, 4 ಮೂಲದ ಆಧಾರದ ಮೇಲೆ. ಈ ಬಂಡವಾಳ ಈ ಕೆಳಗಿನ ಪದ್ಧತಿಯಲ್ಲಿ ಯಲ್ಲಿ ಹಾಗೆ ತರಲು 30-10-2007 ರಂತೆ

ರಂಗ ದರ

ಎಂದು ಲಕ್ಷ ರೂ.

ರೂಪಾಯಿ 2000/-)

ಎಂದು ಲಕ್ಷ ರೂ.

ರೂಪಾಯಿ 600/-)

ಕ್ರ.ಸಂ ವಾರ್ಡ್ ನಂಬರ್/ ಗ್ರಾಮದ ಹೆಸರು ನಿಗದಿಪಡಿಸಿರುವ ಕಚೇರಿ

ಸುರತ್ಕಲ್ ಉಪಕಚೇರಿ:

15	ಸುರತ್ಕಲ್ ಮತ್ತು ಇಡ್ಲಾ	ಸುರತ್ಕಲ್ ಉಪಕಚೇರಿ
16	ಕಾಟಪಳ್ಳಿ	ಪಂಚಾಯತ್ ಕಚೇರಿ
17	ಹೊಸಬೆಟ್ಟು ಮತ್ತು ಕುಳಾಯಿ	ಕುಳಾಯಿ ಪಂಚಾಯತ್ ಕಚೇರಿ
18	ಪಣಂಬೂರು, ಬೈಕಂಪಾಡಿ ಮತ್ತು ತಣ್ಣೇರುಬಾವಿ	ಪಂಚಾಯತ್ ಕಚೇರಿ, ಕೂರಿಕಟ್ಟೆ ರಸ್ತೆ.

ಆಸ್ತಿ ತೆರಿಗೆ ಪಾವತಿ ಮಾಡಲು ನಿಗದಿಪಡಿಸಿದ ಬ್ಯಾಂಕುಗಳು

ಕ್ರ.ಸಂ ವಾರ್ಡ್ ಸಂಖ್ಯೆ/ ಗ್ರಾಮದ ಹೆಸರು ಪಾವತಿ ಮಾಡಲು ನಿಗದಿಪಡಿಸಿದ ಬ್ಯಾಂಕುಗಳು

1	1 ನೇ ಉತ್ತರ	ವಿಜಯಾ ಬ್ಯಾಂಕ್, ಆಶೋಕನಗರ
2	1 ನೇ ದಕ್ಷಿಣ	ಕೆನರಾ ಬ್ಯಾಂಕ್, ಉರ್ವ ಮಾರುಕಿ
3	2	ಕರ್ನಾಟಕ ಬ್ಯಾಂಕ್, ಬಿಜ್ಜೆ
4	3 ನೇ ಪೂರ್ವ ಮತ್ತು ಪಶ್ಚಿಮ	ಕೆನರಾ ಬ್ಯಾಂಕ್, ಕದ್ರಿ, ಮಲ್ಲಿಕಟ್ಟೆ
5	4	ಕರ್ನಾಟಕ ಬ್ಯಾಂಕ್, ಕೊಡಿಯಾಲ್ ಬೆಟ್ಟ
6	5	ಯುನೈಟೆಡ್ ಬ್ಯಾಂಕ್ ಆಫ್ ಇಂಡಿಯಾ, ಅಳಕೆ
7	6	ಕೆನರಾ ಬ್ಯಾಂಕ್, ಗಾಂಧಿನಗರ
8	7	ಕರ್ನಾಟಕ ಬ್ಯಾಂಕ್, ಕುದ್ರೋಳಿ
9	8 ಮತ್ತು 9	ವಿಜಯಾ ಬ್ಯಾಂಕ್, ಅಳಕೆ
10	10 ಮತ್ತು 11	ಕೆನರಾ ಬ್ಯಾಂಕ್, ಬಂದಲ್

NO.DE/PLG/G  
GOVERNMENT OF G  
PLANNING SECTION

READ:- Tender No. DE/Plg. dated 30-01-2008

The following is the Corri Cyberage (Edunet-1/213/1 1. The Annual Turnover at BIDDERS TO BE ELIGIBLE CATEGORY...): for Rs.10. document has been relaxed subject to the fulfillment of supply under Category II (1 2. The time limit for issue The Tender Document shall The Tenders complete in on 26-02-2008. The tenders not be considered and re the Part - of the Tender 02-2008 at 3:00 p.m. The other contents of the



2.