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Welcome GMR Goa International Airport Limited

Date : 14-9-2023

Environmental Statement Details

Environmental Statement id	Industry Name	Environment Statement Financial Period	Industry District	Year of establishment	Date of Submission	Query	Query Reply	Verified	Raw Material consumption Attachment
<u>1904981</u>	GMR Goa International Airport Limited	2022-2023	NORTH GOA	The Airport was started commercial operations from 5th January 2023	2023-09-14 10:41:17.989			Not Mention Yet	View Document



GOA STATE POLLUTION CONTROL BOARD

FORM V

(See Rule 14)

Environmental Statement for the financial year ending on 31st March on or before 30th of September every year.

PART A

- (i) Name and address of the owner/ occupier of the industry operation or process : Sheshan R. V.
- (ii) Industry category Primary-(STC Code) : RED, Airports and Commercial Air Strips
Secondary-(STC Code)
- (iii) Production capacity : Not Applicable Numbers/Year

Production Name	Production Capacity	Production Unit
-----------------	---------------------	-----------------

- (iv) Year of establishment : The Airport was started commercial operations from 5th January 2023
- (v) Date of the last environment statement submitted : 14/09/2023

PART B

1. Water consumption m³/ d

Process :

Cooling :

Domestic :

Name of products	Process water consumption per unit of product output	
	During the previous financial year	During the current financial year
Airport (Operations & Maintenance)	NA	1605 KLD (including Domestic, Cooling, Flushing & Irrigation) during the period from 5th January 2023 to 31st March 2023

2. Raw material consumption

Name of raw materials	Name of products	Consumption of raw material per unit	
		During the previous financial year	During the current financial year
NA	NA	NA	NA

*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

PART C

Pollution discharged to environment/ unit of output.

Pollution	Quantity of pollutants discharged(mass/day)	Concentration of pollutants in discharges(mass/volume)	Percentage of variation from prescribed standards with reasons
Water	Nil. No waste water has been discharged from the Airport. The sewage generated from the Airport was treated in 625 KLD Sewage Treatment Plant established within the Airport premises. After the treatment, 100% wastewater is recycled for flushing, cooling tower makeup and irrigation within the Airport premises.	Waste water quality parameters are being monitored by MoEF&CC approved environmental laboratory. Monitoring data is enclosed as Annexure-I.	Waste water parameters are well within the GSPCB prescribed norms.
Air	The air pollutants from the 3 nos. DG set stacks are released at the height of 30 m.	Ambient Air quality & DG sets stack parameters are being monitored by MoEF&CC approved environmental laboratory. Monitoring data is enclosed as Annexure-I.	The ambient air quality and DG sets stack monitoring are well within the GSPCB prescribed norms.

Name of Pollutants : Not Applicable.

PART D

Hazardous Wastes

(as specified under Hazardous Wastes (Management and Handling) Rules, 1989)

Hazardous Wastes	Total Quantity (Kg)	
	During the previous financial year	During the current financial year
(a) From process	NA	NIL
(b) From pollution control facilities	NA	NIL

PART E

Solid Wastes

	Total Quantity	
	During the previous financial year	During the current financial year
(a) From process	NA	22510 kg (Food waste, plastic, metal and glass scrap)

(b) From pollution control facility	NA	NA
(c)(1) Quantity recycled or re-utilised within the unit	NA	14610 kg (Food waste converted as compost)
(2) Sold	NA	7470 kg (plastic, paper, metal and glass scrap sold to authorized recyclers)
(3) Disposed	NA	430 kg (Refused Derived Fuel disposed to Goa Waste Management Corporation)

PART F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes
Scheduled Commercial Operations started in 5th January 2023.

Hazardous Waste:

No hazardous waste was generated during period from 5th January 2023 to 31st March 2023.

Arrangement has been made for the storage and disposal of category-wise hazardous waste (category 5.1, 33.1 & 33.2) through manifest system.

Membership has been taken with M/s. Goa Industries Environment Management Association for disposal of hazardous waste. Consequently, Agreement has been made with M/s. Ponda Envocare Limited for disposal of hazardous waste in Common Hazardous Waste Treatment & Disposal Facility in Goa State.

Solid Waste generated during the period from 5th January 2023 to 31st March 2023:

Total Biodegradable/Food Waste (14610 Kg) processed through Organic Waste Composter.

Total Non-Biodegradable Recyclable Waste (7470 Kg) sent to the authorized recycler for recycling.

Total Non-Biodegradable non-recyclable waste (430 Kg) was bailed as Refused Derived Fuel (RDF) in the bailing machine & sent to Goa Waste Management Corporation (GWMC).

PART G

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

100% of treated wastewater has been recycled & reused for flushing, cooling tower makeup & irrigation within the airport premises.

This has resulted in significant reduction in the fresh raw water consumption and corresponding cost savings during the period from 5th January 2023 to 31st March 2023. .

PART H

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

Integrated Solid Waste Management Facility, equipped with Organic Waste Converter, Bailing Machine, Manual Segregation System & EV waste collection vehicles. The entire waste management is being managed through professional third party waste management agency.

Night Soil Pit for collecting sewage from Aircrafts on the airside & Airside Waste Transfer Station has been established on the airside.

State of the art Sewage Treatment Plant on the landside, Oil Water Separator on the airside, Storm water drainage system across the airport complex with in-line rainwater harvesting pits, acoustic enclosure to the DG sets, concrete/asphalted road network across the airport complex has been provided.

PART I

Any other particulars for improving the quality of the environment

GGIAL along with the stakeholders have adopted following measure to improve the quality of environment.

- 5 MWp Solar Power Plant is installed & operational within the Airport Premises.
- Use of Bridge Mounted Equipment
- Single Engine Taxing In & Out,
- 100% use of LED lighting system across the Airport complex
- GHG Scope-1 and Scope-2 emissions tracking
- 2 nos. of dedicated heavy duty Road Sweeping Machines
- Prohibition of Single Use Plastic (SUP)
- Landscape development & Tree Plantation
- Ground Water Recharging through in-line rainwater harvesting pits
- Environmental Promotional Campaigns, Trainings & Awareness
- Electrical Vehicle/Bus for public/passenger transport by Kadamba Transport Corporation Limited (KTCL), GoG

1 nos. Continuous Ambient Air Quality Monitoring Station (CAAQMS) within the airport premises & 2 nos. of online real-time Noise Monitoring Terminals in the airport funnel zone are installed to monitor online ambient air quality parameters & online noise levels respectively.

Noise Levels & hazardous waste generation quantities are displayed on Online Display System at the airport entry.

Ambient Air Quality Monitoring is being carried out inside & outside the Airport (6 locations in Goa State & 3 locations in Maharashtra State)

Ambient Noise Level Monitoring is being carried out inside and outside the Airport (9 locations in Goa State & 3 locations in Maharashtra State)

Besides above, DG sets stack emissions monitoring, ground water, drinking water and storm water quality are being monitored through MoEF&CC & NABL approved environmental laboratory.

Remarks :

1) GGIAL has been awarded with Platinum Level Certification for New Building by Indian Green Building Council (IGBC), for embracing various resources conservation and efficiency practices (energy, water, waste water, passive architecture, natural light, ventilation, waste minimization, etc.)

2) GGIAL has been recognized with prestigious “Best Sustainable Greenfield Airport” award at ASSOCHAM 14th International Conference cum Awards for Civil Aviation 2023 for initiatives taken by GGIAL in implementing Sustainability as one of the core concepts.

#Note: As the GGIAL has started scheduled commercial operation from 5th January 2023, this is the first Environment Statement for the period of 1st January 2023 to 31st January 2023.



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel. : (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83.
Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	62
Average Wind Speed (km/hr)	12.4	Average Wind direction (Deg)	221
Latitude	N 15°45'51.1"	Longitude	E 73°56'32.4"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0031A	98.20	70.31	15.28	< 6.0	< 9.0	0.9	0.07	< 1.0
2	05/01/2023	GA/23/0038A	102.40	65.95	19.89	< 6.0	< 9.0	0.84	0.04	< 1.0
3	09/01/2023	GA/23/0053A	99.60	59.78	20.65	< 6.0	< 9.0	1.08	0.05	< 1.0
4	12/01/2023	GA/23/0064A	96.10	64.56	17.72	< 6.0	< 9.0	0.79	0.03	< 1.0
5	16/01/2023	GA/23/0077	95.40	73.94	14.64	< 6.0	< 9.0	1.33	0.06	< 1.0
6	19/01/2023	GA/23/0090	97.30	64.71	19.67	< 6.0	< 9.0	0.71	0.01	< 1.0
7	23/01/2023	GA/23/0118	88.10	63.35	12.77	< 6.0	< 9.0	1.3	0.05	< 1.0
8	27/01/2023	GA/23/0140	81.70	65.05	14.43	< 6.0	< 9.0	0.84	0.07	< 1.0
9	30/01/2023	GA/23/0157	72.50	60.74	11.23	< 6.0	< 9.0	0.39	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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- Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.

For **GADARK LAB PVT. LTD.**

Santosh V. Zulpe

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



K. B. Bagayotke

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 9	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 934-DTA-2020	07/03/2022	07/03/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	09/03/2022	09/03/2023
Gaseoue Sampler Sr. No. 6896-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	31.8	Average Humidity (%)	67
Average Wind Speed (km/hr)	18.2	Average Wind direction (Deg)	235
Latitude	N 15°42'06.1"	Longitude	E 73°49'21.5"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0030A	115.30	65.9	13.98	< 6.0	< 9.0	0.95	0.04	< 1.0
2	05/01/2023	GA/23/0037A	122.10	69.76	15.87	< 6.0	< 9.0	1.05	0.02	< 1.0
3	09/01/2023	GA/23/0053	147.40	76.81	16.59	< 6.0	< 9.0	1.17	0.03	< 1.0
4	12/01/2023	GA/23/0064	115.10	70.22	17.92	< 6.0	< 9.0	0.85	0.02	< 1.0
5	16/01/2023	GA/23/0076	88.30	52.35	11.35	< 6.0	< 9.0	0.47	0.04	< 1.0
6	19/01/2023	GA/23/0089	105.60	58.66	29.98	< 6.0	< 9.0	0.62	0.03	< 1.0
7	23/01/2023	GA/23/0117	86.20	60.67	11.27	< 6.0	< 9.0	0.61	0.04	< 1.0
8	27/01/2023	GA/23/0139	77.30	55.26	10.23	< 6.0	< 9.0	1.05	0.06	< 1.0
9	30/01/2023	GA/23/0156	69.10	53.69	14.51	< 6.0	< 9.0	0.38	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 916-DTA-2020	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 1329-R-273-DTG-2015	05/03/2022	05/03/2023
Gaseous Sampler Sr. No. 6787-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

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Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	31.6	Average Humidity (%)	58
Average Wind Speed (km/hr)	15.1	Average Wind direction (Deg)	218
Latitude	N 15°45'37.3"	Longitude	E 73°53'14.22"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0023	247.10	74.14	25.74	< 6.0	< 9.0	0.69	0.05	< 1.0
2	05/01/2023	GA/23/0030	180.40	74.92	22.41	< 6.0	< 9.0	0.63	0.01	< 1.0
3	09/01/2023	GA/23/0046	190.30	73.80	22.95	< 6.0	< 9.0	1.24	0.04	< 1.0
4	12/01/2023	GA/23/0057	164.70	71.68	20.29	< 6.0	< 9.0	1.22	0.02	< 1.0
5	16/01/2023	GA/23/0069	133.00	72.82	17.84	< 6.0	< 9.0	0.97	0.03	< 1.0
6	19/01/2023	GA/23/0082	127.50	70.49	21.79	< 6.0	< 9.0	1.12	0.04	< 1.0
7	23/01/2023	GA/23/0110	137.90	73.82	16.63	< 6.0	< 9.0	0.95	0.03	< 1.0
8	27/01/2023	GA/23/0132	146.70	75.32	19.63	< 6.0	< 9.0	0.78	0.06	< 1.0
9	30/01/2023	GA/23/0149	136.8	76.86	16.84	< 6.0	< 9.0	1.1	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 301-DTK-2015	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 2823-DTB-2020	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 6771-DTH-2020	05/03/2022	05/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	31.8	Average Humidity (%)	68
Average Wind Speed (km/hr)	13	Average Wind direction (Deg)	232
Latitude	N 15°41'41.9"	Longitude	E 73°50'16.6"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0024	107.40	65.47	18.01	< 6.0	< 9.0	0.57	0.03	< 1.0
2	05/01/2023	GA/23/0031	112.20	64.5	15.59	< 6.0	< 9.0	1.21	0.05	< 1.0
3	09/01/2023	GA/23/0047	178.20	67.22	14.26	< 6.0	< 9.0	1.03	0.03	< 1.0
4	12/01/2023	GA/23/0058	100.70	65.06	11.27	< 6.0	< 9.0	1	0.01	< 1.0
5	16/01/2023	GA/23/0070	101.10	65.61	19.21	< 6.0	< 9.0	1.04	0.03	< 1.0
6	19/01/2023	GA/23/0083	121.30	68.5	19.92	< 6.0	< 9.0	0.44	0.02	< 1.0
7	23/01/2023	GA/23/0111	108.50	75.23	13.31	< 6.0	< 9.0	0.79	0.05	< 1.0
8	27/01/2023	GA/23/0133	119.20	66.74	17.42	< 6.0	< 9.0	1.07	0.04	< 1.0
9	30/01/2023	GA/23/0150	109.70	62.72	14.35	< 6.0	< 9.0	0.55	0.08	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 2	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 336-DTK-2015	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 2832-DTB-2020	09/03/2022	09/03/2023
Gaseoue Sampler Sr. No. 6888-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	68
Average Wind Speed (km/hr)	9.2	Average Wind direction (Deg)	240
Latitude	N 15°40'38.0"	Longitude	E 73°46'21.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0025	93.50	60.21	10.23	< 6.0	< 9.0	0.67	0.03	< 1.0
2	05/01/2023	GA/23/0032	100.10	64.77	12.27	< 6.0	< 9.0	0.64	0.06	< 1.0
3	09/01/2023	GA/23/0048	114.10	57.81	11.56	< 6.0	< 9.0	1.57	0.05	< 1.0
4	12/01/2023	GA/23/0059	88.80	59.56	12.14	< 6.0	< 9.0	0.82	0.02	< 1.0
5	16/01/2023	GA/23/0071	55.50	49.24	11.44	< 6.0	< 9.0	1.26	0.04	< 1.0
6	19/01/2023	GA/23/0084	81.40	56.83	14.6	< 6.0	< 9.0	0.87	0.03	< 1.0
7	23/01/2023	GA/23/0112	60.40	50.42	9.15	< 6.0	< 9.0	1.04	0.06	< 1.0
8	27/01/2023	GA/23/0134	54.20	44.48	10.23	< 6.0	< 9.0	1.28	0.06	< 1.0
9	30/01/2023	GA/23/0151	43.60	52.75	11.73	< 6.0	< 9.0	0.6	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

*N.A.A.Q.S. – National Ambient Air Quality Standards

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5. Customer complaint register is available at laboratory.
6. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.

For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 3	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 919-DTA-2020	07/03/2022	07/03/2023
Respirable Dust Sampler Sr. No. 2841-DTB-2020	09/03/2022	09/03/2023
Gaseoue Sampler Sr. No. 6904-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		

AMBIENT AIR LOCATION

Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	31.9	Average Humidity (%)	67
Average Wind Speed (km/hr)	5.2	Average Wind direction (Deg)	220
Latitude	N 15°48'40.0"	Longitude	E 73°52'50.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0028	97.00	55.59	11.39	< 6.0	< 9.0	0.81	0.02	< 1.0
2	05/01/2023	GA/23/0035	106.30	59.19	10.77	< 6.0	< 9.0	0.65	0.04	< 1.0
3	09/01/2023	GA/23/0051	146.00	57.83	14.1	< 6.0	< 9.0	1.55	0.04	< 1.0
4	12/01/2023	GA/23/0062	94.40	54.27	11.6	< 6.0	< 9.0	0.26	0.03	< 1.0
5	16/01/2023	GA/23/0074	80.60	66.06	12.35	< 6.0	< 9.0	1.2	0.05	< 1.0
6	19/01/2023	GA/23/0087	89.20	63.93	12.77	< 6.0	< 9.0	0.95	0.05	< 1.0
7	23/01/2023	GA/23/0115	85.00	66.5	16.51	< 6.0	< 9.0	0.47	0.06	< 1.0
8	27/01/2023	GA/23/0137	74.30	70.82	12.39	< 6.0	< 9.0	0.41	0.09	< 1.0
9	30/01/2023	GA/23/0154	63.00	68.54	15.22	< 6.0	< 9.0	0.36	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 335-DTF-2015	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2022	16/05/2023
Gaseoue Sampler Sr. No. 262-D-22	16/05/2022	16/05/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	30.7	Average Humidity (%)	63
Average Wind Speed (km/hr)	7.8	Average Wind direction (Deg)	192
Latitude	N 15°43'01.3"	Longitude	E 73°46'00.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0026	99.20	65.09	11.56	< 6.0	< 9.0	0.52	0.02	< 1.0
2	05/01/2023	GA/23/0033	89.60	59.71	12.02	< 6.0	< 9.0	0.47	0.05	< 1.0
3	09/01/2023	GA/23/0049	109.00	64.29	10.19	< 6.0	< 9.0	0.7	0.04	< 1.0
4	12/01/2023	GA/23/0060	97.10	64.34	12.97	< 6.0	< 9.0	0.56	0.01	< 1.0
5	16/01/2023	GA/23/0072	52.40	58.2	9.69	< 6.0	< 9.0	0.54	0.05	< 1.0
6	19/01/2023	GA/23/0085	86.60	61.28	14.22	< 6.0	< 9.0	1.24	0.03	< 1.0
7	23/01/2023	GA/23/0113	69.30	61.42	12.85	< 6.0	< 9.0	0.52	0.06	< 1.0
8	27/01/2023	GA/23/0135	80.50	53.23	15.09	< 6.0	< 9.0	0.83	0.07	< 1.0
9	30/01/2023	GA/23/0152	70.20	59.7	13.72	< 6.0	< 9.0	0.69	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**


AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]




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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 4	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1957-DTA-2020	17/03/2022	17/03/2023
Respirable Dust Sampler Sr. No. 2827-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	31.3	Average Humidity (%)	69
Average Wind Speed (km/hr)	11.4	Average Wind direction (Deg)	228
Latitude	N 15°46'12.3"	Longitude	E 73°49'20.5"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0029	87.50	56.67	12.02	< 6.0	< 9.0	1.07	0.01	< 1.0
2	05/01/2023	GA/23/0036	92.60	63.95	13.1	< 6.0	< 9.0	0.7	0.02	< 1.0
3	09/01/2023	GA/23/0052	120.00	45.21	15.97	< 6.0	< 9.0	1.83	0.01	< 1.0
4	12/01/2023	GA/23/0063	80.40	53.83	10.15	< 6.0	< 9.0	1.19	0.01	< 1.0
5	16/01/2023	GA/23/0075	60.10	60.42	10.77	< 6.0	< 9.0	0.79	0.03	< 1.0
6	19/01/2023	GA/23/0088	72.50	57.2	21.37	< 6.0	< 9.0	0.68	0.04	< 1.0
7	23/01/2023	GA/23/0116	60.70	71.77	13.68	< 6.0	< 9.0	0.34	0.04	< 1.0
8	27/01/2023	GA/23/0138	88.80	65.21	18.96	< 6.0	< 9.0	0.55	0.07	< 1.0
9	30/01/2023	GA/23/0155	79.40	59.03	13.97	< 6.0	< 9.0	1.05	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 7	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1955-DTA-2020	17/03/2022	17/03/2023
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 1440-DTJ-2014	05/03/2022	05/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/02/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	January 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	30.6	Average Humidity (%)	4
Average Wind Speed (km/hr)	4.7	Average Wind direction (Deg)	214
Latitude	N 15°46'11.7"	Longitude	E 73°53'47.0"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS							
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	Lead	VOC
1	02/01/2023	GA/23/0027	50.60	48.93	12.77	< 6.0	< 9.0	0.49	0.03	< 1.0
2	05/01/2023	GA/23/0034	55.20	49.32	12.18	< 6.0	< 9.0	0.53	0.01	< 1.0
3	09/01/2023	GA/23/0050	99.80	43.17	11.68	< 6.0	< 9.0	0.78	0.01	< 1.0
4	12/01/2023	GA/23/0061	66.90	46.4	14.06	< 6.0	< 9.0	0.51	0.01	< 1.0
5	16/01/2023	GA/23/0073	31.90	45.56	8.9	< 6.0	< 9.0	0.57	0.02	< 1.0
6	19/01/2023	GA/23/0086	43.50	62.71	12.81	< 6.0	< 9.0	0.75	0.05	< 1.0
7	23/01/2023	GA/23/0114	26.70	42.59	9.07	< 6.0	< 9.0	0.92	0.03	< 1.0
8	27/01/2023	GA/23/0136	35.00	44.74	12.56	< 6.0	< 9.0	1.04	0.04	< 1.0
9	30/01/2023	GA/23/0153	31.10	49.26	10.69	< 6.0	< 9.0	0.56	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 917-DTA-2020	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 1328-R-272-DTG-2015	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 1445-DTJ-2014	05/03/2022	05/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	66
Average Wind Speed (km/hr)	18.1	Average Wind direction (Deg)	216
Latitude	N 15°45'51.1"	Longitude	E 73°56'32.4"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0181	65.8	63.40	13.72	< 6.0	< 9.0	0.35	110.6	0.08	< 1.0
2	06/02/2023	GA/23/0252	63.3	57.49	14.72	< 6.0	< 9.0	1.63	219.9	0.04	< 1.0
3	09/02/2023	GA/23/0281	67.3	62.88	11.85	< 6.0	< 9.0	0.73	161.0	0.06	< 0.1
4	13/02/2023	GA/23/0300	70.0	57.35	14.47	< 6.0	< 9.0	0.65	103.6	0.04	< 1.0
5	16/02/2023	GA/23/0327	62.7	54.70	13.31	< 6.0	< 9.0	0.24	68.5	0.11	< 1.0
6	20/02/2023	GA/23/0372	68.5	57.04	15.34	< 6.0	< 9.0	0.84	115.4	0.04	< 1.0
7	23/02/2023	GA/23/0425	72.4	60.26	17.05	< 6.0	< 9.0	0.84	143.3	0.08	< 1.0
8	27/02/2023	GA/23/0460	62.5	56.22	12.10	< 6.0	< 9.0	1.05	152.0	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

*N.A.A.Q.S. – National Ambient Air Quality Standards

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5. Customer complaint register is available at laboratory.
6. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.

For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 9	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 934-DTA-2020	07/03/2022	07/03/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	09/03/2022	09/03/2023
Gaseoue Sampler Sr. No. 6896-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		

AMBIENT AIR LOCATION

Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	32.2	Average Humidity (%)	73
Average Wind Speed (km/hr)	22.4	Average Wind direction (Deg)	238
Latitude	N 15°42'06.1"	Longitude	E 73°49'21.5"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0180	74.2	59.30	15.34	< 6.0	< 9.0	0.69	118.3	0.05	< 1.0
2	06/02/2023	GA/23/0251	67.6	53.95	13.72	< 6.0	< 9.0	0.39	51.12	0.02	< 1.0
3	09/02/2023	GA/23/0280	73.5	52.71	14.97	< 6.0	< 9.0	0.65	189.7	0.03	< 1.0
4	13/02/2023	GA/23/0299	77.0	61.16	17.09	< 6.0	< 9.0	1.07	166.5	0.04	< 1.0
5	16/02/2023	GA/23/0326	69.6	53.58	15.39	< 6.0	< 9.0	0.49	199.2	0.08	< 1.0
6	20/02/2023	GA/23/0371	74.3	57.43	17.26	< 6.0	< 9.0	0.66	119.0	0.04	< 1.0
7	23/02/2023	GA/23/0424	76.7	58.50	14.26	< 6.0	< 9.0	0.69	128.5	0.09	< 1.0
8	27/02/2023	GA/23/0459	70.2	51.40	15.93	< 6.0	< 9.0	0.90	147.1	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 916-DTA-2020	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 1329-R-273-DTG-2015	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 6787-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	60
Average Wind Speed (km/hr)	17.4	Average Wind direction (Deg)	222
Latitude	N 15°45'37.3"	Longitude	E 73°53'14.22"
Instrument Used	FPS (APM - 550)	RDS (APM – 460)	GPS (APM – 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0173	129.6	79.86	18.71	< 6.0	< 9.0	0.55	172.8	0.05	< 1.0
2	06/02/2023	GA/23/0244	121.3	77.76	17.63	< 6.0	< 9.0	0.94	148.9	0.03	< 1.0
3	09/02/2023	GA/23/0273	126.3	79.98	19.79	< 6.0	< 9.0	1.17	157.7	0.03	< 1.0
4	13/02/2023	GA/23/0292	121.3	73.52	16.80	< 6.0	< 9.0	0.82	187.5	0.05	< 1.0
5	16/02/2023	GA/23/0319	127.5	69.42	19.38	< 6.0	< 9.0	0.53	76.1	0.02	< 1.0
6	20/02/2023	GA/23/0364	119.8	77.90	16.18	< 6.0	< 9.0	0.63	143.7	0.05	< 1.0
7	23/02/2023	GA/23/0417	138.7	66.18	18.84	< 6.0	< 9.0	0.51	61.01	0.02	< 1.0
8	27/02/2023	GA/23/0452	130.4	68.60	15.18	< 6.0	< 9.0	0.62	67.0	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 301-DTK-2015	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 2823-DTB-2020	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 6771-DTH-2020	05/03/2022	05/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	65
Average Wind Speed (km/hr)	18	Average Wind direction (Deg)	240
Latitude	N 15°41'41.9"	Longitude	E 73°50'16.6"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0174	101.8	59.71	15.76	< 6.0	< 9.0	1.10	187.3	0.05	< 1.0
2	06/02/2023	GA/23/0245	98.2	56.62	13.02	< 6.0	< 9.0	1.07	204.1	0.02	< 1.0
3	09/02/2023	GA/23/0274	101.9	62.84	16.97	< 6.0	< 9.0	0.36	189.7	0.03	< 1.0
4	13/02/2023	GA/23/0293	99.1	57.98	14.39	< 6.0	< 9.0	1.05	164.5	0.04	< 1.0
5	16/02/2023	GA/23/0320	100.4	55.39	15.64	< 6.0	< 9.0	0.80	66.5	0.01	< 1.0
6	20/02/2023	GA/23/0365	94.8	57.68	13.22	< 6.0	< 9.0	0.26	68.7	0.03	< 1.0
7	23/02/2023	GA/23/0418	102.9	52.97	14.22	< 6.0	< 9.0	0.89	136.8	0.06	< 1.0
8	27/02/2023	GA/23/0453	96.9	49.61	13.85	< 6.0	< 9.0	0.95	141.1	0.02	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**


AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]




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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 2	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 336-DTK-2015	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 2832-DTB-2020	09/03/2022	09/03/2023
Gaseoue Sampler Sr. No. 6888-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	72
Average Wind Speed (km/hr)	11.2	Average Wind direction (Deg)	234
Latitude	N 15°40'38.0"	Longitude	E 73°46'21.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0175	39.9	50.40	10.69	< 6.0	< 9.0	1.14	158.7	0.06	< 1.0
2	06/02/2023	GA/23/0246	42.8	55.90	12.18	< 6.0	< 9.0	0.47	65.8	0.03	< 1.0
3	09/02/2023	GA/23/0275	47.7	57.93	14.01	< 6.0	< 9.0	0.23	132.8	0.05	< 1.0
4	13/02/2023	GA/23/0294	49.5	49.58	10.69	< 6.0	< 9.0	1.09	150.0	0.04	< 1.0
5	16/02/2023	GA/23/0321	44.7	53.55	12.35	< 6.0	< 9.0	0.95	86.4	0.09	< 1.0
6	20/02/2023	GA/23/0366	49.3	48.84	10.65	< 6.0	< 9.0	0.95	138.0	0.10	< 1.0
7	23/02/2023	GA/23/0419	50.9	46.38	11.10	< 6.0	< 9.0	0.41	81.3	0.12	< 1.0
8	27/02/2023	GA/23/0454	46.9	45.93	10.35	< 6.0	< 9.0	0.33	78.1	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 3	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 919-DTA-2020	07/03/2022	07/03/2023
Respirable Dust Sampler Sr. No. 2841-DTB-2020	09/03/2022	09/03/2023
Gaseoue Sampler Sr. No. 6904-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	68
Average Wind Speed (km/hr)	11.4	Average Wind direction (Deg)	205
Latitude	N 15°48'40.0"	Longitude	E 73°52'50.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0178	60.4	63.40	14.43	< 6.0	< 9.0	0.61	96.7	0.08	< 1.0
2	06/02/2023	GA/23/0249	65.5	67.22	15.93	< 6.0	< 9.0	0.88	110.8	0.04	< 1.0
3	09/02/2023	GA/23/0278	70.2	61.50	12.85	< 6.0	< 9.0	0.30	63.0	0.06	< 1.0
4	13/02/2023	GA/23/0297	97.3	56.47	11.89	< 6.0	< 9.0	0.51	92.0	0.01	< 1.0
5	16/02/2023	GA/23/0324	72.4	49.22	15.18	< 6.0	< 9.0	0.24	83.2	0.06	< 1.0
6	20/02/2023	GA/23/0369	65.2	58.72	13.60	< 6.0	< 9.0	0.30	61.6	0.06	< 1.0
7	23/02/2023	GA/23/0422	70.4	55.30	13.27	< 6.0	< 9.0	0.79	135.6	0.12	< 1.0
8	27/02/2023	GA/23/0457	62.1	50.73	12.93	< 6.0	< 9.0	0.23	64.6	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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- Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.

For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 335-DTF-2015	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2022	16/05/2023
Gaseous Sampler Sr. No. 262-D-22	16/05/2022	16/05/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	60
Average Wind Speed (km/hr)	8.9	Average Wind direction (Deg)	188
Latitude	N 15°43'01.3"	Longitude	E 73°46'00.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0176	59.3	54.70	11.81	< 6.0	< 9.0	1.26	188.8	0.07	< 1.0
2	06/02/2023	GA/23/0247	63.4	51.64	10.89	< 6.0	< 9.0	0.75	128.1	0.03	< 1.0
3	09/02/2023	GA/23/0276	90.3	52.78	12.81	< 6.0	< 9.0	0.33	84.5	0.05	< 1.0
4	13/02/2023	GA/23/0295	93.0	58.74	15.39	< 6.0	< 9.0	0.95	157.0	0.03	< 1.0
5	16/02/2023	GA/23/0322	84.0	55.20	13.89	< 6.0	< 9.0	0.81	96.3	0.11	< 1.0
6	20/02/2023	GA/23/0367	78.3	46.61	10.77	< 6.0	< 9.0	0.62	77.0	0.06	< 1.0
7	23/02/2023	GA/23/0420	80.5	55.88	13.10	< 6.0	< 9.0	0.70	132.0	0.08	< 1.0
8	27/02/2023	GA/23/0455	83.2	60.30	14.85	< 6.0	< 9.0	0.71	127.4	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 4	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1957-DTA-2020	17/03/2022	17/03/2023
Respirable Dust Sampler Sr. No. 2827-DTB-2020	09/03/2022	09/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		

AMBIENT AIR LOCATION

Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	70
Average Wind Speed (km/hr)	15.6	Average Wind direction (Deg)	220
Latitude	N 15°46'12.3"	Longitude	E 73°49'20.5"
Instrument Used	FPS (APM - 550)	RDS (APM – 460)	GPS (APM – 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0179	65.2	55.56	12.64	< 6.0	< 9.0	0.83	189.0	0.06	< 1.0
2	06/02/2023	GA/23/0250	60.1	49.62	11.10	< 6.0	< 9.0	0.97	193.2	0.02	< 1.0
3	09/02/2023	GA/23/0279	56.8	43.29	11.52	< 6.0	< 9.0	0.29	73.2	0.04	< 1.0
4	13/02/2023	GA/23/0298	54.5	50.84	10.77	< 6.0	< 9.0	1.15	163.7	0.01	< 1.0
5	16/02/2023	GA/23/0325	49.8	42.47	12.35	< 6.0	< 9.0	0.34	108.9	0.05	< 1.0
6	20/02/2023	GA/23/0370	45.4	50.35	9.23	< 6.0	< 9.0	0.73	111.7	0.01	< 1.0
7	23/02/2023	GA/23/0423	49.2	44.48	12.27	< 6.0	< 9.0	0.63	138.4	0.07	< 1.0
8	27/02/2023	GA/23/0458	44.4	48.31	10.52	< 6.0	< 9.0	0.72	125.7	0.02	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 7	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1955-DTA-2020	17/03/2022	17/03/2023
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 1440-DTJ-2014	05/03/2022	05/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	February 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	65
Average Wind Speed (km/hr)	8.7	Average Wind direction (Deg)	210
Latitude	N 15°46'11.7"	Longitude	E 73°53'47.0"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0177	55.0	43.55	9.36	< 6.0	< 9.0	0.79	130.5	0.06	< 1.0
2	06/02/2023	GA/23/0248	58.7	44.46	9.15	< 6.0	< 9.0	0.23	51.1	0.02	< 1.0
3	09/02/2023	GA/23/0277	48.7	46.66	11.27	< 6.0	< 9.0	0.40	121.7	0.04	< 1.0
4	13/02/2023	GA/23/0296	54.3	44.97	10.73	< 6.0	< 9.0	0.81	148.7	0.01	< 1.0
5	16/02/2023	GA/23/0323	57.7	41.58	11.85	< 6.0	< 9.0	0.22	113.8	0.06	< 1.0
6	20/02/2023	GA/23/0368	49.3	49.32	9.69	< 6.0	< 9.0	0.67	107.5	0.06	< 1.0
7	23/02/2023	GA/23/0421	55.4	45.35	10.98	< 6.0	< 9.0	0.36	63.8	0.05	< 1.0
8	27/02/2023	GA/23/0456	47.7	40.71	8.82	< 6.0	< 9.0	0.31	65.7	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 917-DTA-2020	03/03/2022	03/03/2023
Respirable Dust Sampler Sr. No. 1328-R-272-DTG-2015	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 1445-DTJ-2014	05/03/2022	05/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		

AMBIENT AIR LOCATION

Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	68
Average Wind Speed (km/hr)	20.1	Average Wind direction (Deg)	220
Latitude	N 15°45'51.1"	Longitude	E 73°56'32.4"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0499	57.8	54.94	13.60	< 6.0	< 9.0	0.77	159.9	0.05	< 1.0
2	06/03/2023	GA/23/0539	72.4	61.43	20.79	< 6.0	< 9.0	0.69	116.5	0.09	< 1.0
3	09/03/2023	GA/23/0580	79.0	60.27	18.42	< 6.0	< 9.0	0.90	118.9	0.05	< 0.1
4	13/03/2023	GA/23/0613	87.1	58.47	20.04	< 6.0	< 9.0	0.86	107.3	0.09	< 1.0
5	16/03/2023	GA/23/0644	97.4	59.89	22.21	< 6.0	< 9.0	0.31	71.2	0.07	< 1.0
6	20/03/2023	GA/23/0675	105.9	60.97	24.28	< 6.0	< 9.0	0.30	81.9	0.05	< 1.0
7	23/03/2023	GA/23/0702	118.0	60.56	27.45	< 6.0	< 9.0	0.16	51.2	0.11	< 1.0
8	27/03/2023	GA/23/0737	128.7	78.49	29.82	< 6.0	< 9.0	0.44	120.0	0.13	< 1.0
9	30/03/2023	GA/23/0768	142.6	81.19	25.41	< 6.0	< 9.0	0.44	120.0	0.07	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 301-DTK-2015	17/02/2023	16/02/2024
Respirable Dust Sampler Sr. No. 2823-DTB-2020	18/02/2023	17/02/2024
Gaseoue Sampler Sr. No. 6771-DTH-2020	17/02/2023	16/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Shemeheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	72
Average Wind Speed (km/hr)	28.3	Average Wind direction (Deg)	242
Latitude	N 15°42'06.1"	Longitude	E 73°49'21.5"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0498	78.4	57.76	18.59	< 6.0	< 9.0	0.17	70.7	0.06	< 1.0
2	06/03/2023	GA/23/0538	84.0	82.04	19.38	< 6.0	< 9.0	0.56	143.0	0.05	< 1.0
3	09/03/2023	GA/23/0579	73.5	52.71	14.97	< 6.0	< 9.0	0.65	189.7	0.03	< 1.0
4	13/03/2023	GA/23/0612	102.4	64.76	24.95	< 6.0	< 9.0	0.92	144.6	0.08	< 1.0
5	16/03/2023	GA/23/0643	115.6	69.07	28.44	< 6.0	< 9.0	0.50	107.9	0.04	< 1.0
6	20/03/2023	GA/23/0674	128.3	66.64	23.74	< 6.0	< 9.0	0.51	121.5	0.04	< 1.0
7	23/03/2023	GA/23/0701	146.8	68.05	25.03	< 6.0	< 9.0	0.67	147.4	0.04	< 1.0
8	27/03/2023	GA/23/0736	159.2	69.75	26.32	< 6.0	< 9.0	1.04	140.1	0.10	< 1.0
9	30/03/2023	GA/23/0767	170.2	70.61	28.69	< 6.0	< 9.0	0.65	98.6	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 9	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1256-L-22	07/01/2023	07/01/2024
Respirable Dust Sampler Sr. No. 475-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 472-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		

AMBIENT AIR LOCATION

Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	62
Average Wind Speed (km/hr)	18.2	Average Wind direction (Deg)	228
Latitude	N 15°45'37.3"	Longitude	E 73°53'14.22"
Instrument Used	FPS (APM - 550)	RDS (APM – 460)	GPS (APM – 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0491	177.1	83.66	21.04	< 6.0	< 9.0	0.65	60.9	0.03	< 1.0
2	06/03/2023	GA/23/0531	193.8	92.14	46.78	< 6.0	< 9.0	0.93	133.1	0.04	< 1.0
3	09/03/2023	GA/23/0572	179.5	87.64	25.78	< 6.0	< 9.0	0.71	137.9	0.02	< 1.0
4	13/03/2023	GA/23/0605	168.1	77.66	31.10	< 6.0	< 9.0	0.95	136.9	0.06	< 1.0
5	16/03/2023	GA/23/0636	159.3	74.82	28.69	< 6.0	< 9.0	0.48	119.6	0.06	< 1.0
6	20/03/2023	GA/23/0667	171.7	75.71	30.81	< 6.0	< 9.0	0.49	104.7	0.07	< 1.0
7	23/03/2023	GA/23/0694	183.3	94.79	34.39	< 6.0	< 9.0	0.54	126.9	0.05	< 1.0
8	27/03/2023	GA/23/0729	172.7	93.31	31.27	< 6.0	< 9.0	0.57	102.9	0.03	< 1.0
9	30/03/2023	GA/23/0760	160.2	92.33	29.32	< 6.0	< 9.0	0.32	93.5	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

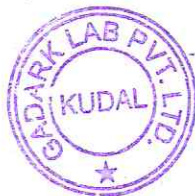
*N.A.A.Q.S. – National Ambient Air Quality Standards

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For **GADARK LAB PVT. LTD.**

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 847-DTJ-2019	08/10/2022	08/10/2023
Respirable Dust Sampler Sr. No. 476-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 471-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		

AMBIENT AIR LOCATION

Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	68
Average Wind Speed (km/hr)	20	Average Wind direction (Deg)	232
Latitude	N 15°41'41.9"	Longitude	E 73°50'16.6"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0492	133.0	65.04	17.09	< 6.0	< 9.0	0.55	111.9	0.03	< 1.0
2	06/03/2023	GA/23/0532	156.5	86.59	29.32	< 6.0	< 9.0	0.38	87.4	0.06	< 1.0
3	09/03/2023	GA/23/0573	141.1	69.69	30.52	< 6.0	< 9.0	0.37	90.4	0.04	< 1.0
4	13/03/2023	GA/23/0606	132.2	71.49	23.91	< 6.0	< 9.0	0.26	70.8	0.03	< 1.0
5	16/03/2023	GA/23/0637	121.6	66.72	22.25	< 6.0	< 9.0	0.41	110.3	0.06	< 1.0
6	20/03/2023	GA/23/0668	134.2	65.67	23.66	< 6.0	< 9.0	0.68	116.7	0.06	< 1.0
7	23/03/2023	GA/23/0695	147.5	95.99	28.65	< 6.0	< 9.0	0.59	133.3	0.01	< 1.0
8	27/03/2023	GA/23/0730	135.1	85.9	24.75	< 6.0	< 9.0	0.95	61.0	0.06	< 1.0
9	30/03/2023	GA/23/0761	148.2	90.41	20.87	< 6.0	< 9.0	0.78	121.4	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 2	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 336-DTK-2015	17/02/2023	16/02/2024
Respirable Dust Sampler Sr. No. 2832-DTB-2020	17/02/2023	16/02/2024
Gaseoue Sampler Sr. No. 6888-DTB-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	70
Average Wind Speed (km/hr)	15.4	Average Wind direction (Deg)	230
Latitude	N 15°40'38.0"	Longitude	E 73°46'21.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0493	50.6	53.60	11.19	< 6.0	< 9.0	0.46	121.2	0.04	< 1.0
2	06/03/2023	GA/23/0533	55.8	57.50	12.35	< 6.0	< 9.0	0.75	136.4	0.09	< 1.0
3	09/03/2023	GA/23/0574	55.8	59.73	14.01	< 6.0	< 9.0	0.32	76.1	0.03	< 1.0
4	13/03/2023	GA/23/0607	59.3	63.57	18.21	< 6.0	< 9.0	0.23	54.1	0.08	< 1.0
5	16/03/2023	GA/23/0638	68.2	60.79	17.01	< 6.0	< 9.0	0.46	91.0	0.05	< 1.0
6	20/03/2023	GA/23/0669	78.5	52.67	13.60	< 6.0	< 9.0	0.93	139.5	0.07	< 1.0
7	23/03/2023	GA/23/0696	89.1	58.89	15.93	< 6.0	< 9.0	0.50	108.1	0.07	< 1.0
8	27/03/2023	GA/23/0731	80.0	59.54	19.00	< 6.0	< 9.0	0.64	129.6	0.06	< 1.0
9	30/03/2023	GA/23/0762	86.8	61.17	15.76	< 6.0	< 9.0	0.62	102.6	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 3	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 919-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 2841-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	71
Average Wind Speed (km/hr)	13.3	Average Wind direction (Deg)	212
Latitude	N 15°48'40.0"	Longitude	E 73°52'50.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0496	59.3	52.72	13.68	< 6.0	< 9.0	0.93	153.9	0.06	< 1.0
2	06/03/2023	GA/23/0536	77.2	58.53	15.55	< 6.0	< 9.0	0.38	52.5	0.10	< 1.0
3	09/03/2023	GA/23/0577	65.9	61.48	13.85	< 6.0	< 9.0	0.61	83.6	0.08	< 1.0
4	13/03/2023	GA/23/0610	84.8	62.72	17.80	< 6.0	< 9.0	0.69	105.9	0.06	< 1.0
5	16/03/2023	GA/23/0641	102.7	65.44	19.25	< 6.0	< 9.0	0.69	101.0	0.10	< 1.0
6	20/03/2023	GA/23/0672	110.4	69.74	22.58	< 6.0	< 9.0	0.43	94.3	0.07	< 1.0
7	23/03/2023	GA/23/0699	122.4	95.29	27.53	< 6.0	< 9.0	0.30	87.0	0.07	< 1.0
8	27/03/2023	GA/23/0734	135.6	87.93	22.08	< 6.0	< 9.0	0.33	60.7	0.09	< 1.0
9	30/03/2023	GA/23/0765	148.1	71.17	24.37	< 6.0	< 9.0	0.24	61.6	0.08	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 4	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1957-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 2827-DTB-2020	17/02/2023	16/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	64
Average Wind Speed (km/hr)	10.8	Average Wind direction (Deg)	190
Latitude	N 15°43'01.3"	Longitude	E 73°46'00.2"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0494	75.1	57.56	13.18	< 6.0	< 9.0	0.96	146.1	0.06	< 1.0
2	06/03/2023	GA/23/0534	80.2	63.09	14.68	< 6.0	< 9.0	0.89	134.6	0.10	< 1.0
3	09/03/2023	GA/23/0575	75.4	59.69	17.30	< 6.0	< 9.0	0.30	79.06	0.05	< 1.0
4	13/03/2023	GA/23/0608	86.2	63.11	19.54	< 6.0	< 9.0	0.67	135.3	0.10	< 1.0
5	16/03/2023	GA/23/0639	96.9	67.53	21.58	< 6.0	< 9.0	0.80	133.8	0.10	< 1.0
6	20/03/2023	GA/23/0670	104.8	58.87	17.17	< 6.0	< 9.0	0.32	62.7	0.07	< 1.0
7	23/03/2023	GA/23/0697	92.4	72.25	20.83	< 6.0	< 9.0	0.42	122.8	0.07	< 1.0
8	27/03/2023	GA/23/0732	99.2	61.48	21.29	< 6.0	< 9.0	0.72	140.1	0.09	< 1.0
9	30/03/2023	GA/23/0763	109.7	64.16	28.86	< 6.0	< 9.0	0.98	147.2	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]


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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 917-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 1328-R-272-DTG-2015	17/02/2023	16/02/2024
Gaseoue Sampler Sr. No. 1445-DTJ-2014	17/02/2023	16/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	75
Average Wind Speed (km/hr)	18.4	Average Wind direction (Deg)	230
Latitude	N 15°46'12.3"	Longitude	E 73°49'20.5"
Instrument Used	FPS (APM - 550)	RDS (APM – 460)	GPS (APM – 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0497	49.0	50.28	11.64	< 6.0	< 9.0	0.02	86.3	0.03	< 1.0
2	06/03/2023	GA/23/0537	52.2	40.01	32.89	< 6.0	< 9.0	0.18	51.44	0.06	< 1.0
3	09/03/2023	GA/23/0578	55.6	38.28	18.21	< 6.0	< 9.0	0.45	71.4	0.04	< 1.0
4	13/03/2023	GA/23/0611	61.2	47.67	15.14	< 6.0	< 9.0	0.71	109.2	0.02	< 1.0
5	16/03/2023	GA/23/0642	69.6	51.87	12.02	< 6.0	< 9.0	0.28	51.8	0.01	< 1.0
6	20/03/2023	GA/23/0673	81.9	54.23	13.18	< 6.0	< 9.0	0.72	75.2	0.04	< 1.0
7	23/03/2023	GA/23/0700	97.8	64.72	15.59	< 6.0	< 9.0	0.63	142.6	0.03	< 1.0
8	27/03/2023	GA/23/0735	108.2	66.31	19.05	< 6.0	< 9.0	0.83	115.9	0.07	< 1.0
9	30/03/2023	GA/23/0766	117.8	59.04	16.72	< 6.0	< 9.0	0.39	122.0	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

*N.A.A.Q.S. – National Ambient Air Quality Standards

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 335-DTF-2015	17/02/2023	16/02/2023
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2022	16/05/2023
Gaseoue Sampler Sr. No. 262-D-22	16/05/2022	16/05/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	04/04/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED		
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.		
Sampling Plan	GLPL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLPL Representative		
Month of Sampling	March 2023		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	60
Average Wind Speed (km/hr)	9.9	Average Wind direction (Deg)	208
Latitude	N 15°46'11.7"	Longitude	E 73°53'47.0"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM ₁₀	PM _{2.5}	SO ₂	NO _x	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0495	28.4	43.81	10.10	< 6.0	< 9.0	0.36	89.3	0.06	< 1.0
2	06/03/2023	GA/23/0535	31.1	50.62	12.93	< 6.0	< 9.0	0.22	51.3	0.06	< 1.0
3	09/03/2023	GA/23/0576	33.7	56.02	14.55	< 6.0	< 9.0	0.42	61.8	0.01	< 1.0
4	13/03/2023	GA/23/0609	37.0	56.39	13.31	< 6.0	< 9.0	0.27	50.6	0.06	< 1.0
5	16/03/2023	GA/23/0640	43.5	57.06	14.55	< 6.0	< 9.0	0.91	145.9	0.03	< 1.0
6	20/03/2023	GA/23/0671	52.4	49.87	12.10	< 6.0	< 9.0	0.36	86.6	0.07	< 1.0
7	23/03/2023	GA/23/0698	66.6	67.71	14.72	< 6.0	< 9.0	0.35	130.1	0.02	< 1.0
8	27/03/2023	GA/23/0733	74.7	57.99	18.30	< 6.0	< 9.0	0.39	64.9	0.06	< 1.0
9	30/03/2023	GA/23/0764	84.5	58.98	14.10	< 6.0	< 9.0	0.29	56.1	0.09	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix-L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 7	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1955-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	17/02/2023	16/02/2024
Gaseoue Sampler Sr. No. 1440-DTJ-2014	17/02/2023	16/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/23/0229	Report Date	13/02/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512			
Order / Reference	As Per Dated 07/02/2023	Environmental Condition of Lab	Temp °C 26.08	Humidity % 50.0
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Inlet			
Sampling Details	STP Inlet Water Sample	Date of Collection	07/02/2023	
Sample Collected by	GLPL Representative	Sample Received On	07/02/2023	
Analysis Started On	08/02/2023	Analysis Completed On	13/02/2023	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.12	-	APHA 4500 H ⁺
2	Chemical Oxygen Demand (COD)	499	mg/lit	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	167	mg/lit	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	80	mg/lit	APHA 2540 D
5	Oil & Grease (O & G)	19	mg/lit	APHA 5520 B
6	Ammonia	52.75	mg/lit	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	73.02	mg/lit	APHA 4500-Norg

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Method
8	Fecal Coliform at 44.5°C for 24 hrs.	> 1600	MPN Index/100ml	APHA 9221 E

End

For GADARK LAB PVT. LTD.

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[SANTOSH V. ZULPE]

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In house Calibration	
02.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 22/02/74	17/02/2022	16/02/2023
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/23/0230	Report Date	13/02/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512			
Order / Reference	As Per Dated 07/02/2023	Environmental Condition of Lab	Temp °C	Humidity %
			26.08	50.0
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Outlet			
Sampling Details	STP Outlet Water Sample	Date of Collection	07/02/2023	
Sample Collected by	GLPL Representative	Sample Received On	07/02/2023	
Analysis Started On	08/02/2023	Analysis Completed On	13/02/2023	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.61	-	5.5 - 9.0	APHA 4500 H ⁺
2	Chemical Oxygen Demand (COD)	33	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	10	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	3.92	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	8.06	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

8	Fecal Coliform at 44.5°C for 24 hrs.	79	MPN Index/100ml	100	APHA 9221 E
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End

For GADARK LAB PVT. LTD.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In house Calibration	
02.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 22/02/74	17/02/2022	16/02/2023
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/23/0447	Report Date	24/03/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512			
Order / Reference	As Per Dated 18/03/2023	Environmental Condition of Lab	Temp °C	Humidity %
			30.0	46
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Inlet			
Sampling Details	STP Inlet Water Sample	Date of Collection	18/03/2023	
Sample Collected by	GLPL Representative	Sample Received On	18/03/2023	
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.00	-	APHA 4500 H ⁺
2	Chemical Oxygen Demand (COD)	212	mg/lit	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	74	mg/lit	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	174	mg/lit	APHA 2540 D
5	Oil & Grease (O & G)	7	mg/lit	APHA 5520 B
6	Ammonia	47.26	mg/lit	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	62.49	mg/lit	APHA 4500-Norg

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Method
8	Fecal Coliform at 44.5°C for 24 hrs.	> 1600	MPN Index/100ml	APHA 9221 E

End

For GADARK LAB PVT. LTD.

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Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In house Calibration	
02.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	18/03/2023	15/02/2024
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/23/0448	Report Date	24/03/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512			
Order / Reference	As Per Dated 18/03/2023	Environmental Condition of Lab	Temp °C	Humidity %
			30.0	46
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Outlet			
Sampling Details	STP Outlet Water Sample	Date of Collection	18/03/2023	
Sample Collected by	GLPL Representative	Sample Received On	18/03/2023	
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	6.29	-	5.5 - 9.0	APHA 4500 H ⁺
2	Chemical Oxygen Demand (COD)	16	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	7	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	12	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.36	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	9.18	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

8	Fecal Coliform at 44.5°C for 24 hrs.	84	MPN Index/100ml	100	APHA 9221 E
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End

For GADARK LAB PVT. LTD.

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Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Details	
				Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In house Calibration	
02.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023
04.	BOD Incubator	GL/EQ/II/02	AVI/2207014	01/07/2022	30/06/2023
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	18/03/2023	15/02/2024
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

STACK EMISSION REPORT					
Test Report No.	GA/23/0515	Test Report Date	09/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED				
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, ADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA - 403 512.				
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	GLPL/SOP/SE/11		
Sample Collected By	GLPL Representative	Environmental Condition of Lab			
Date of Sampling	05/03/2023	Temperature (°C)	28.4	Humidity (%)	48.0
Sample Received on	06/03/2023	Analysis Period		06/03/2023 To 09/03/2023	

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET NO. 1 (2000 KVA) [S-1]				
Lab Reference No.	GA/23/0515				
Time of Sampling (Hrs)	12:00				
Stack Diameter [mm]	457				
Height [Meter]	30.0				
Type of Fuel	HSD				
Consumption of Fuel [Lit/hr]	250				
Temperature of flue gas [°C]	470				
Average flue gas velocity [m/s]	21.3				
Average volume of flue gas discharged [Nm ³ /hr]	5049				

ANALYSIS REPORT :

Parameters	Unit	Results	GSPCB Limits**	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	40.6	75 mg/Nm ³	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	117.4	---	IS 11255 (Part II) 1985
NOx	ppm v/v	74.3	710 ppm v/v	IS 11255 (Part VII) 2005
CO	mg/Nm ³	15.9	150 mg/Nm ³	APHA Edition II-134
NMHC	mg/Nm ³	13.3	100 mg/Nm ³	IS 5182 Part 21/2001

**Consent No. 12/2022-PCB/1322094/R008891

End

For GADARK LAB PVT. LTD.

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Note :

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4. Test Results relate only to the conditions prevailing at the time of sampling.
5. Customer complaint register is available at laboratory.
6. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Instrument Name	Calibrated On	Calibration Due Date
Stack Monitoring Kit – Sr. No. 6120	13/10/2022	12/10/2023
UV Spectrophotometer – GL/EQ/UV/01	15/10/2022	14/10/2023
Analytical Balance - GL/EQ/BAL/03	01/07/2022	30/06/2023



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

STACK EMISSION REPORT					
Test Report No.	GA/23/GMR/0517	Test Report Date	09/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED				
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, ADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA - 403 512.				
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	GLPL/SOP/SE/11		
Sample Collected By	GLPL Representative	Environmental Condition of Lab			
Date of Sampling	05/03/2023	Temperature (°C)	28.4	Humidity (%)	48.0
Sample Received on	06/03/2023	Analysis Period		06/03/2023 To 09/03/2023	

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET NO. 2 (2000 KVA) [S-2]
Lab Reference No.	GA/23/GMR/0517
Time of Sampling (Hrs)	14:10
Stack Diameter [mm]	457
Height [Meter]	30.0
Type of Fuel	HSD
Consumption of Fuel [Lit/hr]	250
Temperature of flue gas [°C]	472
Average flue gas velocity [m/s]	23.1
Average volume of flue gas discharged [Nm ³ /hr]	5459

ANALYSIS REPORT :

Parameters	Unit	Results	GSPCB Limits**	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	48.3	75 mg/Nm ³	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	109.0	---	IS 11255 (Part II) 1985
NOx	ppm v/v	64.78	710 ppm v/v	IS 11255 (Part VII) 2005
CO	mg/Nm ³	12.8	150 mg/Nm ³	APHA Edition II-134
NMHC	mg/Nm ³	12.9	100 mg/Nm ³	IS 5182 Part 21/2001

**Consent No. 12/2022-PCB/1322094/R008891

End

For GADARK LAB PVT. LTD.

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Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221, dated 24th August 2021, valid upto 15th October 2023. ISO 9001 : 2015 Certified & ISO 45001 : 2018 Certified.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Instrument Name	Calibrated On	Calibration Due Date
Stack Monitoring Kit – Sr. No. 6120	13/10/2022	12/10/2023
UV Spectrophotometer – GL/EQ/UV/01	15/10/2022	14/10/2023
Analytical Balance - GL/EQ/BAL/03	01/07/2022	30/06/2023



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TEST REPORT

STACK EMISSION REPORT					
Test Report No.	GA/23/0516	Test Report Date	09/03/2023		
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED				
Address of Client	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, ADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA – 403 512.				
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	GLPL/SOP/SE/11		
Sample Collected By	GLPL Representative	Environmental Condition of Lab			
Date of Sampling	05/03/2023	Temperature (°C)	28.4	Humidity (%)	48.0
Sample Received on	06/03/2023	Analysis Period		06/03/2023 To 09/03/2023	

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET NO. 3 (2000 KVA) [S-3]
Lab Reference No.	GA/23/0516
Time of Sampling (Hrs)	12:45
Stack Diameter [mm]	457
Height [Meter]	30.0
Type of Fuel	HSD
Consumption of Fuel [Lit/hr]	250
Temperature of flue gas [°C]	475
Average flue gas velocity [m/s]	21.9
Average volume of flue gas discharged [Nm ³ /hr]	5158

ANALYSIS REPORT :

Parameters	Unit	Results	GSPCB Limits**	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	52.8	75 mg/Nm ³	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	125.8	---	IS 11255 (Part II) 1985
NOx	ppm v/v	67.1	710 ppm v/v	IS 11255 (Part VII) 2005
CO	mg/Nm ³	12.3	150 mg/Nm ³	APHA Edition II-134
NMHC	mg/Nm ³	12.1	100 mg/Nm ³	IS 5182 Part 21/2001

**Consent No. 12/2022-PCB/1322094/R008891

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY
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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Instrument Name	Calibrated On	Calibration Due Date
Stack Monitoring Kit – Sr. No. 6120	13/10/2022	12/10/2023
UV Spectrophotometer – GL/EQ/UV/01	15/10/2022	14/10/2023
Analytical Balance - GL/EQ/BAL/03	01/07/2022	30/06/2023



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TEST REPORT

NOISE LEVEL MONITORING REPORT													
Date of Issue		04/02/2023											
Name of Client		M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED											
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.											
Sampling Plan		GLPL/QF/7.3/06				Sampling Procedure No.				GLPL/SOP/AA/17			
Sample Collected By		GLPL Representative											
AMBIENT AIR NOISE POLLUTION MONITORING													
Sr. No.	Date of Sampling	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)				
						L _{min}	L _{max}	L _{eq}	L _{min}	L _{max}	L _{eq}		
1	20/01/2023	GA/23/0092	G-N1	I	Mopa Boundary	31.7	90.6	57.0	30.1	89.6	53.4		
2	27/01/2023	GA/23/0142	G-N2	I	Shemecheadvan	35	89.4	66.8	33.4	74.9	53.3		
3	22/01/2023	GA/23/00108	G-N3	C	Nagzar	47.4	83.1	61.7	38.7	77.4	53.5		
4	20/01/2023	GA/23/0091	G-N4	R	Purva Casarvamem	36.2	82.2	50.2	32.9	69.0	42.6		
5	23/01/2023	GA/23/0119	G-N5	R	Chandel	30.3	77.8	50.5	30.6	72.1	41.3		
6	22/01/2023	GA/23/0109	G-N6	R	Khajne Amere Porscodem	31.6	87.3	51.6	30.9	106	40.7		
7	27/01/2023	GA/23/0141	G-N7	R	Warkhand	30.8	78.7	53.0	32.6	72.7	41.9		
8	24/01/2023	GA/23/0121	G-N8	C	Rajvil Wada Torxem	35	97.6	59.7	30.5	71.8	45.6		
9	30/01/2023	GA/23/0158	G-N9	C	Village Panchayant Tamboxem - Mopa - Ugvem	39.4	82.6	54.7	37.8	70.3	46.0		
10	24/01/2023	GA/23/0120	M-N1	R	Satarda	30.2	79.8	52.5	30.1	59.4	39.5		
11	17/01/2023	GA/23/0078	M-N2	R	Dingane	31.8	88.1	51.9	30.2	58.6	40.8		
12	17/01/2023	GA/23/0079	M-N3	R	Netarde	36.8	79.5	52.5	37.0	75.3	41.7		
I - Industrial Zone, C - Commercial Zone, R - Residential Zone													
1] Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows													
Area Code		Category of Area		Limits in dB(A) Leq									
				Day Time		Night Time							
(A)		Industrial Area (I)		75		70							
(B)		Commercial Area (C)		65		55							
(C)		Residential Area (R)		55		45							
(D)		Silence Zone (S)		50		40							
2] Day time to reckoned in between 6:00 am to 10 pm and night time is reckoned in between 10:00 pm to 06:00 am													
3] *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.													
4] "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.													
5] Leq : It is the energy mean of the noise level over a specified period.													
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For GADARK LAB PVT. LTD.													
AUTHORISED SIGNATORY [SANTOSH V. ZULPE]						CHECKED BY							



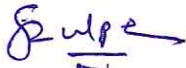

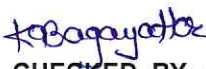
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TEST REPORT

NOISE LEVEL MONITORING REPORT											
Date of Issue		03/03/2023									
Name of Client		M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED									
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.									
Sampling Plan		GLPL/QF/7.3/06			Sampling Procedure No.				GLPL/SOP/AA/17		
Sample Collected By		GLPL Representative									
AMBIENT AIR NOISE POLLUTION MONITORING											
Sr. No.	Date of Sampling	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						L _{min}	L _{max}	L _{eq}	L _{min}	L _{max}	L _{eq}
1	17.02.2023	GA/23/0328	G-N1	I	Mopa Boundary	38	81.3	55.3	38.3	80	50.4
2	12.02.2023	GA/23/0286	G-N2	I	Shemecheadvan	31.6	79.8	52.5	32.6	74.1	43.3
3	12.02.2023	GA/23/00287	G-N3	C	Nagzar	30.1	87.7	57.2	30.6	70.5	42.6
4	24.02.2023	GA/23/0434	G-N4	R	Purva Casarvarnem	34.4	67.8	50.2	31	59.1	43.0
5	13.02.2023	GA/23/0301	G-N5	R	Chandel	35.2	70.6	52.9	31	67.3	38.7
6	11.02.2023	GA/23/0402	G-N6	R	Khajne Amere Porscodem	30.8	66	50.9	32.9	55.8	43.5
7	24.02.2023	GA/23/0435	G-N7	R	Warkhand	32.3	77.3	47.4	30.1	65.1	43.2
8	25.02.2023	GA/23/0439	G-N8	C	Rajvil Wada Torxem	32.8	69.4	46.7	30.4	70.4	49.5
9	25.02.2023	GA/23/0438	G-N9	C	Village Panchayat Tamboxem - Mopa - Ugvem	38.5	83	44.0	38.2	53	44.4
10	11.02.2023	GA/23/0401	M-N1	R	Satarda	31	65.2	47.5	33.5	48.7	42.7
11	07.02.2023	GA/23/0253	M-N2	R	Dingane	37.1	81.4	52.2	35.7	77.8	43.9
12	07.02.2023	GA/23/0254	M-N3	R	Netarde	30.1	89.5	49.5	30	58.1	37.5
I – Industrial Zone, C – Commercial Zone, R – Residential Zone											
1] Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows											
Area Code		Category of Area		Limits in dB(A) Leq							
				Day Time		Night Time					
(A)		Industrial Area (I)		75		70					
(B)		Commercial Area (C)		65		55					
(C)		Residential Area (R)		55		45					
(D)		Silence Zone (S)		50		40					
2] Day time to reckoned in between 6:00 am to 10 pm and night time is reckoned in between 10:00 pm to 06:00 am											
3] *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.											
4] "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.											
5] Leq : It is the energy mean of the noise level over a specified period.											
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For GADARK LAB PVT. LTD.											
											
AUTHORISED SIGNATORY [SANTOSH V. ZULPE]								CHECKED BY			

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Equipment Name	Calibrated On	Calibration Due Date
Noise Level Meter Sr. No. 554067	16/05/2022	16/05/2023

Equipment Name	Calibrated On	Calibration Due Date
Noise Level Meter Sr. No. 546176	24/06/2022	24/06/2023



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TEST REPORT

NOISE LEVEL MONITORING REPORT											
Date of Issue		03/04/2023									
Name of Client		M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED									
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.									
Sampling Plan		GLPL/QF/7.3/06			Sampling Procedure No.				GLPL/SOP/AA/17		
Sample Collected By		GLPL Representative									
AMBIENT AIR NOISE POLLUTION MONITORING											
Sr. No.	Date of Sampling	Report No.	Station ID	Zone	Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
						L _{min}	L _{max}	L _{eq}	L _{min}	L _{max}	L _{eq}
1	15/03/2023	GA/23/0617	G-N1	I	Mopa Boundary	41.7	83.9	56.6	50.4	74.8	53.3
2	18/03/2023	GA/23/0649	G-N2	I	Shemecheadvan	41.2	83.6	56.1	47.5	84.6	53.5
3	18/03/2023	GA/23/0650	G-N3	C	Nagzar	37.2	78.6	55.3	37.7	67.2	51.2
4	14/03/2023	GA/23/0614	G-N4	R	Purva Casarvarnem	32.0	67.3	51.0	29.8	63.1	38.6
5	28/03/2023	GA/23/0740	G-N5	R	Chandel	30.9	82.5	51.7	30.2	71.6	40.7
6	14/03/2023	GA/23/0615	G-N6	R	Khajne Amere Porscodem	34.3	72.4	47.1	37.4	53.7	43.2
7	28/03/2023	GA/23/0741	G-N7	R	Warkhand	30.0	84.6	53.7	34.8	63.1	43.9
8	07/03/2023	GA/23/0542	G-N8	C	Rajvil Wada Torxem	35.6	69.5	51.1	28.3	60.3	45.3
9	15/03/2023	GA/23/0618	G-N9	C	Village Panchayant Tamboxem - Mopa - Ugvem	38.2	85.2	52.1	40.2	70.2	51.4
10	07/03/2023	GA/23/0541	M-N1	R	Satarda	33.8	72.0	52.5	29.0	70.9	43.5
11	03/03/2023	GA/23/0500	M-N2	R	Dingane	30.8	71.5	43.4	30.3	52.7	35.1
12	03/03/2023	GA/23/0501	M-N3	R	Netarde	27.2	84.3	52.3	23.6	53.6	35.3
I - Industrial Zone, C - Commercial Zone, R - Residential Zone											
1] Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows											
Area Code		Category of Area		Limits in dB(A) Leq							
				Day Time		Night Time					
(A)		Industrial Area (I)		75		70					
(B)		Commercial Area (C)		65		55					
(C)		Residential Area (R)		55		45					
(D)		Silence Zone (S)		50		40					
2] Day time to reckoned in between 6:00 am to 10 pm and night time is reckoned in between 10:00 pm to 06:00 am											
3] *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.											
4] "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.											
5] Leq : It is the energy mean of the noise level over a specified period.											
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For GADARK LAB PVT. LTD.											
AUTHORISED SIGNATORY [SANTOSH V. ZULPE]								CHECKED BY			

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Equipment Name	Calibrated On	Calibration Due Date
Noise Level Meter Sr. No. 554067	16/05/2022	16/05/2023

Equipment Name	Calibrated On	Calibration Due Date
Noise Level Meter Sr. No. 546176	24/06/2022	24/06/2023