

To,

**The Additional Principal Chief Conservator of Forest (C)**  
**Ministry of Environment, Forest & Climate Change,**  
Regional Office (SZ),  
4<sup>th</sup> Floor, E&F Wing, Kendriya Sadan,  
Koramangala, Bengaluru - 560034

**Date: 29<sup>th</sup> November 2024**

**Ref: GGIAL/MoEF&CC-EC/2024-2025/2344**

**Sub: Submission of Half Yearly EC Compliance Report of 'Greenfield International Airport at Mopa, Goa' by GMR Goa International Airport Limited (GGIAL), for the period from April 2024 to September 2024.**

**Name of the Project: Greenfield International Airport at Mopa, Goa.**

**EC File No. : F.No.10-29/2011-IA.III dated 28<sup>th</sup> October 2015**

**Ref:** 1. Original EC vide letter No. F.No.10-29/2011-IA.III dated 28<sup>th</sup> October 2015  
2. Hon'ble Supreme Court of India's Order dated 16<sup>th</sup> January 2020  
3. Addendum to Original EC dated 13<sup>th</sup> March 2020

Dear Sir,

With reference to the subject & reference mentioned above, we are herewith submitting the Half Yearly Environmental Clearance (EC) Compliance Report of 'Greenfield International Airport at Mopa, Goa' by GMR Goa International Airport Limited (GGIAL), for the period from April 2024 to September 2024.

Soft copy of this signed covering letter along with said EC Compliance Report, environmental monitoring report and other annexures are being submitted as a single document in pdf to your good office by e-mail ([rosz.bng-mef@nic.in](mailto:rosz.bng-mef@nic.in)).

We request your good offices to kindly acknowledge receipt of the same.

Thanking you,

Yours Sincerely,

for **GMR Goa International Airport Limited**

**RANGANATHAN VENKATA SHESHAN**  
AN VENKATA SHESHAN  
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**R V Sheshan**

**Chief Executive Officer**

Enclosure: As above

Copy for kind information to:

1. The Director, MoEF&CC, GOI, Indira Paryavaran Bhawan, CGO Complex, New Delhi – 110 003
2. The Member Secretary, CPCB, Parivesh Bhavan, East Arjun Nagar, New Delhi – 110 032
3. The Member Secretary, Goa State Pollution Control Board, Saligao, Goa - 403 511
4. The Director, Directorate of Civil Aviation, GoG, Secretariat, Porvorim, Goa – 403 521

# HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(Period: April 2024 to September 2024)



## Environmental Clearance Compliance Status Report of

### Greenfield International Airport at Mopa, Goa

With reference to

MoEF&CC's EC Letter No: F.No.10-29/2011-IA.III dated 28.10.2015

Addendum to EC Conditions dated 13.03.2020

## GMR GOA INTERNATIONAL AIRPORT LIMITED

### MANOHAR INTERNATIONAL AIRPORT

Mopa, Pernem Taluka, North Goa District, Goa – 403 512

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**Point-wise Compliance**

No.	Reference No.	Condition	Compliance
<b>Conditions of EC, dated 28/10/2015</b>			
<b>Specific Conditions</b>			
1.	4 (A) (i)	'Consent to Establish' shall be obtained from State Pollution Control Board under the Air (Prevention and Control of Pollution) Act, 1981, and the Water (Prevention and Control of Pollution) Act, 1974.	Complied. Consent to Operate (CTO) is valid till 01/08/2027.
2.	4 (A) (ii)	The Project Proponent shall ensure the availability of adequate land at the junction of the Mopa Airport road and Mumbai/Goa NH-17 for traffic circulation/management and to provide for all the traffic interchanges and proposed clover leaf.	According to Directorate of Civil Aviation (DoCA), Government of Goa (GoG): "Complied. GoG has provided adequate land at the junction of the Mopa Airport road and Mumbai / Goa NH-66 (earlier NH-17) for traffic circulation / management. Dedicated 6 lane access control expressway connectivity (NH 166S) along with traffic interchanges and clover leaf is constructed & now operational."
3.	4 (A) (iii)	The approach and exit roads to the Airport shall be approved by the NHAI and should be according to IRC norms.	According to DoCA, GoG: "Complied. Ministry of Road Transport & Highways (MoRTH), Government of India (GoI) has notified the approach road connectivity to airport as a National Highway (NH) No. 166S,

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
			vide Gazette Notification dated 23-09-2020, Dedicated 6 lane access control expressway connectivity (NH 166S) is constructed as per IRC norms & now operational."
4.	4 (A) (iv)	A perusal of the Topo sheet superimposed on the runway area indicates that the extreme end of the runway is covering the drainage area partly. The drainage area which is under the runway shall be channelized. The area between the parallel taxiway and runway shall be handled carefully to drain the water from the area in outfall 2.	Complied. Storm water drainage management system is in operation, in compliance to the approved scheme from Water Resources Department (WRD) of GoG.
5.	4 (A) (v)	The PP shall submit the site clearance certificate from Directorate General of Civil Aviation (DGCA), before commencement of work at the project site.	Submitted & Complied.
6.	4 (A) (vi)	Sewage and other liquid effluent generated from the airport including from the existing terminal should be treated according to the norms laid down by the State Pollution Control Board. The treated sewage shall be recycled for flushing/ gardening. Proper dual plumbing shall be provided.	Complied. Sewage and other liquid effluent is being treated in 625 KLD STP and 100% treated effluent is being reused and recycled. The treated sewage quality monitoring report is enclosed as <b>Annexure-2</b> . All treated effluent parameters are within the permissible norms prescribed by Goa State Pollution Control Board (GSPCB).
7.	4 (A) (vii)	The solid waste generated shall be properly collected, segregated, and disposed of according to the provisions of Solid Waste (Management and Handling) Rules, 2000. The project proponent shall make provisions for	Noted & Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		drinking water at convenient places for passengers and also at the cafeterias as to reduce the generation of solid wastes including PET bottles.	
8.	4 (A) (viii)	Installation and operation of DG sets shall comply with the guidelines of CPCB.	Complied. CTO for the Airport consists of DG Sets as well, which is valid till 01/08/2027.
9.	4 (A) (ix)	Parking provision shall be provided according to the National Building Code of India, 2005.	Complied.
10.	4 (A) (x)	Water conservation fixtures shall be provided and water balance shall be maintained through verifiable metering for fresh raw water, recycled as well as rain water harvesting.	Complied.
11.	4 (A) (xi)	Necessary permission shall be obtained for drawing of ground water from competent authority prior to construction / operation of the project.	No ground water is being drawn.
12.	4 (A) (xii)	The land use around the Airport complex shall be regulated through a plan to control unauthorized development which may create problems in the operation of Airport.	According to DoCA, GoG: "Being Complied. GoG has constituted Mopa Airport Development Authority (MADA) as the designated regulatory body to control the unauthorized development around the Airport complex. GoG is addressing the same."
13.	4 (A) (xiii)	The wastewater from hangers shall be tested for presence of heavy metals, if any, and shall be treated in STP. The treated wastewater shall be used for gardening/ flushing.	Not applicable, as there are no hangers as of now.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
14.	4 (A) (xiv)	Rain water harvesting shall be provided to recharge the ground water.	Complied. Rainwater harvesting system, as approved by WRD, GoG is provided.
15.	4 (A) (xv)	Energy conservation to the extent of at least 20% shall be incorporated including water conservation (reuse/recycle, rain water harvesting and water efficient fixtures) and other green building practices for various buildings proposed within the airport complex. The PP shall consider ECBC Guidelines 2009 to achieve energy-efficiency. The energy conservation measures shall be subject to periodic verification by the competent Energy Conservation/ Efficiency authority in the State.	Complied.
16.	4 (A) (xvi)	The project proponent shall prepare a detailed traffic management plan to take care of increased vehicular traffic which should also cover/clearly delineate widening/ increasing the existing roads and associated road infrastructure approving/ installation of road safety features/pedestrian facility/FOB/under passes etc. (that can be done by carrying out road safety audits). Measures shall be taken to prevent encroachment along / within the Rows on connecting/ main arterial roads.	According to DoCA, GoG: "Being Complied. Now, GoG has also constructed dedicated 6 lane access control expressway connectivity (NH 166S) as per IRC norms considering all these stated aspects viz., increased vehicular traffic, safety features, prevention of encroachments, etc. NH1662 is operational now. Sections of existing PWD road approaching airport has also been widened with safety features ensuring no encroachment within ROW & no traffic congestion which is also addressed through Goa traffic police deployment."

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
17.	4 (A) (xvii)	All the recommendations of the EMP shall be complied with in letter and spirit. All the mitigation measures submitted in the EIA report shall be prepared in a matrix format and the compliance for each mitigation plan shall be submitted to RO, MoEF&CC along with half yearly compliance report.	Complied. Compliance to the EIA mitigation measures in Matrix Format is attached as <b>Annexure – 1A</b> for Airport Construction – Spine Road & Expansion and <b>Annexure – 1B</b> for Airport Operation.
18.	4 (A) (xviii)	The responses / commitments made during public hearing shall be complied with in letter and spirit.	According to DoCA, GoG: "Being Complied. Report on Compliance status of concerns raised during public hearing is attached as <b>Annexure-3.</b> "
19.	4 (A) (xix)	Project Proponent shall install noise level display system. Noise level shall be monitored regularly in all seasons (different meteorological conditions) within the compound as well as nearby habitations and it shall be ensured that the noise level is within the prescribed limits. During night time the noise levels measured at the boundary shall be restricted to the permissible levels to comply with the prevalent regulations.	Complied. Ambient Noise levels monitoring reports are enclosed as <b>Annexure-2.</b>
20.	4 (A) (xx)	The location of monitoring stations and monitoring of noise level during day and night shall be in accordance with the CPCB guidance document "Requirement and procedure for monitoring Ambient Noise Level due to aircraft" published on 25 <sup>th</sup> June, 2008.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
21.	4 (A) (xxi)	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Complied.
22.	4 (A) (xxii)	Any hazardous waste generated during construction phase, should be disposed off as per applicable rules and norms with necessary approval of the SPCB.	Complied. Hazardous waste generated during construction is being disposed-off through GSPCB authorized recycler.
23.	4 (A) (xxiii)	Under the provisions of Environment (Protection) Act, 1986, legal action shall be initiated against the project proponent if it was found that construction of the project has been started without obtaining environmental clearance.	Noted.
24.	4 (A) (xxiv)	The project proponent will set up separate environmental management cell for effective implementation of the stipulated environmental safeguards under the supervision of a Senior Executive.	Complied.
25.	4 (A) (xxv)	<b>Corporate Environment Responsibility:</b>	Complied.
		a) The Company shall have a well laid down Environment Policy approved by the Board of Directors. b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		environmental or forest norms/conditions.	
		c) The hierarchical system or Administrative Order of the company to deal with environmental issues and for ensuring compliance with the environmental clearance conditions shall be furnished.	Complied.
		d) To have proper checks and balances, the company shall have a well laid down system of reporting of non-compliances/ violations of environmental norms to the Board of Directors of the company and/ or shareholders or stakeholders at large.	Complied.
<b>General Conditions</b>			
26.	4 (B) (i)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care etc. The housing may be in the form of temporary structures to be removed after the completion of the project	Complied.
27.	4 (B) (ii)	A First Aid Room will be provided in the project both during construction and operation of the project.	Complied.
28.	4 (B) (iii)	All the topsoil excavated during construction activities should be stored for use in horticulture/landscape development within the project site.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
29.	4 (B) (iv)	Disposal of muck during construction phase should not create any adverse effect on the neighboring communities and be disposed taking the necessary precautions for general safety and health aspects of people, only in approved sites with the approval of competent authority.	Complied.
30.	4 (B) (v)	The diesel generator sets to be used during construction phase should be low Sulphur diesel type and should conform to Environment (Protection Rules prescribed for air and noise emission standards. The diesel required for operating DG sets shall be stored in underground tanks and if required clearance from Chief Controller of Explosives shall be taken.	Complied.
31.	4 (B) (vi)	Vehicles hired for bringing construction material to the site should be in good condition and should have a pollution check certificate and should conform to applicable air and noise emission standards and should be operated only during non- peak hours.	Complied.
32.	4 (B) (vii)	Fly ash usage shall be explored as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 <sup>th</sup> August, 2003.	Complied.
33.	4 (B) (viii)	Ready mixed concrete must be used in building construction.	Complied.

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No.	Reference No.	Condition	Compliance
34.	4 (B) (ix)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Complied. Implemented as per the approved scheme of WRD, GoG.
35.	4 (B) (x)	Water demand during construction should be reduced by use of pre-mixed concrete, curing agents and other best practices referred.	Complied.
36.	4 (B) (xi)	Separation of grey and black water should be done by the use of dual plumbing line for separation of grey and black water.	Complied.
37.	4 (B) (xii)	Use of glass may be reduced by up to 40% to reduce the electricity consumption and load on air-conditioning. If necessary, use high quality double glass with special reflective coating in windows.	Complied.
38.	4 (B) (xiii)	Roof should meet prescriptive requirement as per Energy Conservation Building Code by using appropriate thermal insulation material to fulfil requirement.	Complied.
39.	4 (B) (xiv)	Opaque wall should meet prescriptive requirement as per Energy Conservation Building Code which is proposed to be mandatory for all air-conditioned spaces while it is aspirational for non-air-conditioned spaces by use of appropriate thermal insulation material to fulfil requirement.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
40.	4 (B) (xv)	The green belt of the adequate width and density preferably with local species along the periphery of the plot shall be raised so as to provide protection against particulates and noise.	Complied meeting the safe operational requirements of the airport.
41.	4 (B) (xvi)	Traffic congestion near the entry and exit points from the roads adjoining the proposed project site must be avoided. Parking should be fully internalized and no public space should be utilized.	According to DoCA, GoG; "Complied. GoG through Goa Traffic Police is ensuring that there is no traffic congestion near the entry and exit points from the PWD roads adjoining the Manohar International Airport and there is no public space is used for parking. Now, GoG has also constructed dedicated 6 lane access control expressway connectivity (NH 166S) as per IRC norms considering all these stated aspects viz., increased vehicular traffic, safety features, prevention of encroachments, etc. NH1662 is operational now."
42.	4 (B) (xvii)	The construction of the structures shall be undertaken as per the plans approved by the concerned local authorities/local administration, meticulously conforming to the existing local and central rules and regulations.	Complied.
43.	4 (B) (xviii)	The construction material shall be obtained only from approved quarries. In case new quarries are to be opened, specific approvals from the competent authority shall be obtained in this regard.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
44.	4 (B) (xix)	Adequate precautions shall be taken during transportation of the construction material so that it does not affect the environment adversely.	Complied.
45.	4 (B) (xx)	Full support shall be extended to the officers of this Ministry/Regional Office by the project proponent during inspection of the project for monitoring purposes by furnishing full details and action plan including action taken reports in respect of mitigation measures and other environmental protection activities.	Complied.
46.	4 (B) (xxi)	A six-Monthly monitoring report shall need to be submitted by the project proponents to the Regional Office of this Ministry regarding the implementation of the stipulated conditions.	Complied. Six-monthly monitoring report on the environmental parameters shall be submitted as a part of the EC compliance report, which is being submitted regularly to MoEF&CC Regional Office.
47.	4 (B) (xxii)	Ministry of Environment, Forest & Climate Change or any other competent authority may stipulate any additional conditions or modify the existing. ones, if necessary in the interest of environment and the same shall be complied with.	Noted.
48.	4 (B) (xxiii)	The Ministry reserves the right to revoke this clearance if any of the conditions stipulated are not complied with the satisfaction of the Ministry.	Noted.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
49.	4 (B) (xxiv)	In the event of a change in project profile or change in the implementation agency, a fresh reference shall be made to the Ministry of Environment, Forest & Climate Change.	Noted.
50.	4 (B) (xxv)	The project proponents shall inform the Regional Office as well as the Ministry, the date of financial closure and final approval of the project by the concerned authorities and the date of start of land development work.	Complied.
51.	4 (B) (xxvi)	A copy of the clearance letter shall be marked to concerned Panchayat / local NGO, if any, from whom any suggestion/ representation has been made received while processing the proposal.	Complied.
52.	4 (B) (xxvii)	A copy of the environmental clearance letter shall also be displayed on the website of the concerned State Pollution Control Board. The EC letter shall also be displayed at the Regional Office, District Industries centre and Collector's Office/ Tehsildar's office for 30 days.	Complied.
53.	4 (B) (xxviii)	The funds earmarked for environmental protection measures shall be kept in separate account and shall not be diverted for other purpose. Year-wise expenditure shall be reported to this Ministry and its concerned Regional Office.	Being complied. Environmental expenditure for the period from April 2024 to September 2024 is enclosed as <b>Annexure – 4</b> .

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
54.	5	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.	Noted.
55.	6	All other statutory clearances such as the approvals for storage of diesel from Chief Controller of Explosives, Fire Department, Civil Aviation Department, Forest Conservation Act, 1980 and Wildlife (Protection) Act, 1972 etc. shall be obtained, as applicable by project proponents from the respective competent authorities.	Being Complied.
56.	7	The project proponent shall advertise in at least two local Newspapers widely circulated in the region, one of which shall be in the vernacular language informing that the project has been accorded Environmental Clearance and copies of clearance letters are available with the State Pollution Control Board and may also be seen on the website of the Ministry of Environment, Forest & Climate Change at <a href="http://www.envfor.nic.in">http://www.envfor.nic.in</a> . The advertisement should be made within Seven days from the date of receipt of the Clearance letter and a copy of the same should be	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		forwarded to the Regional Office of this Ministry.	
57.	8	This Clearance is subject to final order of the Hon'ble Supreme Court of India in the matter of Goa Foundation Vs. Union of India in Writ Petition (Civil) No .460 of 2004 as may be applicable to this project.	Noted.
58.	9	Status of compliance to the various stipulated environmental conditions and environmental safeguards will be uploaded by the project proponent in its website.	Complied. Half Yearly EC Compliance Report is being uploaded on company website of GGIAL. <a href="https://www.gmrgroup.in/goa/">https://www.gmrgroup.in/goa/</a>
59.	10	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.
60.	11	The environmental statement for each financial year ending 31 <sup>st</sup> March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Complied. Copy of Environmental Statement for FY 2023-2024 in Form-V submitted to Goa State Pollution Control Board is enclosed as <b>Annexure-5</b> .

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
<b>Additional NGT Conditions vide NGT order dated 21/08/2018</b>			
<b>(A) Air Environment</b>			
61.	1	Total Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM) during construction phase. Unburnt and Hydro Carbons (HC), Lead (Pb), CO <sub>2</sub> , SO <sub>2</sub> , CO <sub>2</sub> , SOOT and Oxides of Nitrogen (NO <sub>x</sub> ) during operation phase are going to be major pollutants in this kind of project. Besides, fugitive emissions of Volatile Organic Compounds (VOC) during fuel handling can be another issue for ambient air environment. The provision of only 6 (six) Air Quality Monitoring Stations is inadequate as sampling duration has been given as 'twice a week, 4 weeks in a season as per CPCB standards for NAAQM, 1994. It would be appropriate if the Project Proponent establishes real time online continuous Air Quality Monitoring Station also which is connected to GSPCB server and capable of monitoring all relevant and critical parameters and mitigation measures taken.	Complied. Ambient Air Quality Monitoring report is enclosed as <b>Annexure-2.</b>
62.	2	Although all parameters w.r.t ambient air parameters have been found to be within limits for all 6 (six) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient air in the area, at	Complied. Ambient Air Quality Monitoring report for additional 3 locations in the State of Maharashtra is enclosed as <b>Annexure-2.</b>

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	
<b>(B) Water Environment</b>			
63.	1	Only two number of Rain Water Harvesting pits have been provided which we feel are not adequate and there is a need to place other pits at such locations so as to capture all the excess drainage for water re-charge.	Complied in line with the revised approved scheme of WRD, GoG.
64.	2	More frequent Water Quality Monitoring i.e. once every month may be carried out by Project Proponent at bore wells and STP discharge plants instead of 4 (four) times in a year as proposed.	Complied. Monthly Water Quality Monitoring reports are enclosed as <b>Annexure-2.</b>
<b>(C) Noise Environment</b>			
65.	1	It has been proposed that ambient noise levels shall be monitored around the premises of airport, near DG sets and at main entrance/boundary of airport once a week at 7 (seven) locations which we feel are inadequate. Besides these, continuous monitoring of occupational noise exposure limits in such industrial environments would be appropriate with audible or visual alarm output capability.	Complied. Ambient Noise levels monitoring reports for all locations is enclosed as <b>Annexure-2.</b>
66.	2	Integrated Noise Model (INM) be more frequently used and mitigation undertaken during the operational phase of project at regular intervals.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
67.	3	Although ambient noise levels have been found to be within limits at 9 (nine) locations monitored, we feel for the purpose of giving/depicting holistic picture with regard to ambient noise levels in the area, at least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	Complied. Ambient Noise Levels monitoring reports for additional 3 locations in the State of Maharashtra is enclosed as <b>Annexure -2.</b>
<b>(D) Land Environment</b>			
68.	1	There is a potential for impact on soil quality due to project related spills and leaks of fuel and chemicals and uncontrolled disposal of wastes and waste water. Adequate care be taken to avoid spills and leaks of hazardous substances and all project related wastes. Littering on sites and beyond the sites needs to be adequately prevented and controlled.	Complied.
69.	2	Debris and Muck Management Plan to be prepared and implemented so as to avoid spillage of muck and debris on the slopes.	Complied.
70.	3	Soil conservation and stabilization measures needs to be undertaken by deploying both mechanical and bio-engineering methods.	Complied.
71.	4	Remediation, restoration and compensation needs to be integral part of policy so as to provide adequate relief for any environmental or project related disasters.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
<b>(E) Biological Environment</b>			
72.	1	Efforts be made to transplant the trees to other locations in the same vicinity by using appropriate mechanical devices which are available these days.	No trees were required to be transplanted during April '24 - Sept '24 period.
73.	2	Efforts be made to plant indigenous species which are tall in size rather than small saplings.	Noted.
74.	3	Concerns have been raised by appellants with regard to plant species 'Dipcadi concanense' which has been claimed to be a threatened plant. This claim of the appellants has been negated by the respondent by producing a documentation of Botanical Survey of India, Western Regional Centre, Pune, Maharashtra titled as "A Note on Occurrence and Distribution of Dipcadi concanense". By invoking Precautionary Principle, we direct the Project Proponent to draw up a Conservancy by Plan/Scheme for 'Dipcadi concanense' in collaboration with Forest Department, State of Goa and Botanical Survey of India and ensure its implementation.	According to DoCA, GoG: "Complied. Dipcadi Concanense is conserved in a forest conservatory by Forest Department, GoG."
<b>(F) Socio-economic Environment</b>			
75	1	Adequate drills with respect to implementation of Disaster Management plan needs to be carried out at regular intervals so as to ensure preparedness and rapid response	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		to any disasters both man-made or natural.	
76	2	Although 'Disaster Management Plan' as Annexure-II is part of EIA Report under the Sub head 1.2.1- National Disasters needs further elaboration especially in terms of Emergency Response Measures, Rules and Responsibility, Mitigation, etc.	Complied.
<b>Addendum to EC dated 23<sup>rd</sup> March 2020</b>			
<b>(I) Statutory Compliance</b>			
77.	(i)	The project proponent shall obtain certificate from Chief Wildlife Warden (CWLW) of State through State Government that none of the area of the project falls in the notified Eco-sensitive Zone (ESZ) and no activity prohibited in the Eco-sensitive zone will be taken up.	Complied.
78.	(ii)	The project proponent shall obtain Consent to Establish / Operate under the provisions of Air (Prevention & Control of Pollution) Act, 1981 and the Water (Prevention & Control of Pollution) Act, 1974 from the concerned State Pollution Control Board/ Committee.	Complied. CTO is valid till 01/08/2027.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
79.	(iii)	The project proponent shall obtain necessary permission from the competent authority for drawl of water from Tillari Irrigation Canal.	Complied.
<b>(II) Air Quality Monitoring &amp; Preservation</b>			
80.	(i)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM <sub>10</sub> and PM <sub>2.5</sub> in reference to PM emission, and SO <sub>2</sub> and NO <sub>x</sub> in reference to SO <sub>2</sub> and NO <sub>x</sub> emissions) within and outside the airport area covering upwind and downwind directions.	Complied. Ambient Air Quality Monitoring report is enclosed as <b>Annexure-2.</b>
81.	(ii)	Notification GSR 94 (E) dated 25.01.2018 of MoEF&CC regarding Mandatory Implementation of Dust Mitigation Measures for Construction and Demolition Activities shall be complied with.	Complied.
82.	(iii)	Soil and other construction materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet	Complied.
83.	(iv)	The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
84.	(v)	Excavated materials shall be handled and transported in a manner that they do not cause any air pollution.	Complied.
85.	(vi)	The soil/construction materials carried by the vehicle should be covered by impervious sheeting to avoid leaking of the dusty materials.	Complied.
<b>(III) Water quality monitoring and preservation</b>			
86.	(i)	Appropriate drainage channels need to be designed to take care of the water flow into the nearest water courses/streams, etc.	Complied. Drainage channels have been provided as per approved scheme of WRD, GoG.
87.	(ii)	It should be ensured that sustainable water flow in the various channels of watershed in the plateau is maintained.	Complied, as per the approved scheme of WRD, GoG.
88.	(iii)	Storm water drains are to be built for discharging storm water from the air-field to avoid flooding/water logging in project area. Domestic and industrial waste water shall not be allowed to be discharged into the storm water drains and directed to STP for treatment.	Complied.
89.	(iv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied.
90.	(v)	The runoff from paved structures like Aprons can be routed through drains to oil separation tanks and sedimentation	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		basins before being discharged into rainwater harvesting structures.	
91.	(vi)	Run off from chemicals and other contaminants from aircraft maintenance and other areas within the airport shall be suitably contained and treated before disposal. A spillage and contaminant containment plan shall be drawn up and implemented to the satisfaction of the State Pollution Control Board.	Complied.
92.	(vii)	The project activity shall conform to the General Standards for Discharge of Environmental Pollutants notified in the Environment (Protection) Rules, 1986, and amended from time to time.	Complied.
93.	(viii)	Rain water harvesting for roof run-off and surface run-off, as plan submitted should be implemented. Rain water harvesting structures shall conform to CGWA guidelines. Before recharging the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.	Complied, as per approved scheme of WRD, GoG.
<b>(IV) Noise Monitoring &amp; Preservation</b>			
94.	(i)	Notification G.S.R. 568(E) dated 18.06.2018 of MoEF&CC regarding Ambient Air Quality Standards with respect to Noise in Airport Noise Zone shall be complied with.	Complied. The Airport Noise Zone details are available on the company website. <a href="https://www.gmrgroup.in/goa/">https://www.gmrgroup.in/goa/</a> .

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
95.	(ii)	Noise level survey shall be carried as per the prescribed guidelines and report in this regard shall be submitted to Regional Officer of the Ministry as a part of six-monthly compliance report.	Complied. Ambient Noise levels monitoring reports are enclosed as <b>Annexure-2.</b>
96.	(iii)	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment's.	Complied.
97.	(iv)	Acoustic enclosures for DG sets, noise barriers for ground-run bays, ear plugs for operating personnel shall be implemented as mitigation measures for noise impact due to ground sources.	Complied.
98.	(v)	During airport operation period, noise should be controlled to ensure that it does not exceed the prescribed standards. During night time the noise levels measured at the boundary of the building shall be restricted to the permissible levels to comply with the prevalent regulations.	Complied. Ambient Noise levels monitoring reports are enclosed as <b>Annexure-2.</b>
99.	(vi)	Where construction activity is likely to cause noise nuisance to nearby residents, restrict it to only during day time i.e. between 7 am to 6 pm.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
<b>(V) Energy Conservation/climate change measures</b>			
100.	(i)	Energy conservation measures like installation of LED should be integral part of the project design and should be in place before project commissioning.	Complied.
101.	(ii)	Initiatives such as Green Infrastructure Development program, adoption of less emission intensive technologies, renewable energy program, electrical vehicles and Airport Carbon Accreditation need to be adopted to reduce its impact on climate change and Green House Gas (GHG) emissions as per environmental best practices governing greenfield airports.	Complied.
<b>(VI) Waste Management</b>			
102.	(i)	Soil stockpile shall be managed in such a manner that dust emission and sediment runoff are minimized. Ensure that soil stockpiles are designed with no slope greater than 2:1 (horizontal/vertical).	Complied.
103.	(ii)	The project activity shall conform to the Fly Ash notification issued under the E.P. Act of 1986.	Complied.
104.	(iii)	The solid wastes shall be segregated as per the norms of the Solid Waste Management Rules, 2016. Recycling of wastes such as paper, glass (produced from terminals and aircraft caterers), metal (at aircraft maintenance site),	Complied. Solid Waste is handled at Integrated Solid Waste Management Facility through a dedicated Waste Management Agency.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		plastics (from aircrafts, terminals and offices), wood, waste oil and solvents (from maintenance and engineering operations), kitchen wastes and vegetable oils (from caterers) shall be carried out.	
105.	(iv)	Solid inert waste found on construction sites consists of building rubble, demolition material, concrete; bricks, timber, plastic, glass, metals, bitumen etc shall be reused/recycled or managed so as to strictly conform to the Solid Waste Management Rules, 2016, and Construction and Demolition Waste Management Rules, 2016.	Complied. Solid Waste is handled at Integrated Solid Waste Management Facility through a dedicated Waste Management Agency.
106	(v)	The project proponents shall implement a management plan duly approved by the State Pollution Control Board and obtain its permissions for the safe handling and disposal of:	Complied. Solid Waste is handled at Integrated Solid Waste Management Facility through a dedicated Waste Management Agency. Hazardous waste is being disposed-off through GSPCB authorized recyclers.
	a.	Trash collected in flight and disposed at the airport including segregation, collection and disposed.	
	b.	Toilet wastes and sewage collected from aircrafts and disposed at the Airport.	
	c.	Wastes arising out of maintenance and workshops	
	d.	Wastes arising out of eateries and shops situated inside the airport complex.	
	e.	Hazardous and other waste	

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
<b>(VII) Green belt</b>			
107.	(i)	Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter-alia cover the entire periphery of the Airport.	Complied, meeting the safe operational requirements of the airport.
108.	(ii)	The plantation species in and around Airport site should be carefully chosen to avoid bird nesting and to improve pollution control and noise control measures. Water intensive and/or invasive species should not be used for landscaping.	Complied, meeting the safe operational requirements of the airport.
109.	(iii)	Plantation activity should be taken up under the expert guidance for forest department of Goa, care should be taken that soil erosion measures should be taken up on priority so that the rich mineralized soil of forest is not washed away. The plantation activity should also have an approach of soil conservation where planting is done along the contours avoiding gully formation. As far as possible monoculture plantation should be avoided.	Complied.
110.	(iv)	The proposed 10 times compensatory plantation need to be monitored by the Government of Goa so that the target of planting 5.5 lakh saplings is achieved in a time bound manner, their survival rate is monitored and mortality is replenished. As major chunk of 2.5 lakh of saplings is	According to DoCA, GoG: "Complied. GoG, through Goa State Biodiversity Board (GSBB) has carried out plantation of > 5 lakh tree saplings (native tree species, fruit bearing trees) as a compensatory afforestation

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
		proposed to be done by the village level Bio Diversity Committees, it is necessary to ensure that people are largely given native species and/or fruit bearing saplings so that they will be able to derive economic benefits from such fruit crops and also such trees will provide better biological environment to birds.	plantation through village level bio-diversity committees, etc. Its survival rate is monitored & mortality if any is replenished. Further, GGIAL has planted 51,000 trees inside the airport premises based on Miyawaki methodology."
111.	(v)	Top soil shall be separately stored and used in the development of green belt.	Complied.
<b>(VIII) Public hearing and human health issue</b>			
112.	(i)	Solution/management plan regarding redressal of all the concerns raised in the public hearing must be clearly spelt out in the EMP and shall be implemented in letter and spirit. Compliance for each mitigation plan shall be submitted to Regional Office, MoEF&CC along with half yearly compliance report.	According to DoCA, GoG: "Being Complied. Report on Compliance status of concerns raised during public hearing is attached as <b>Annexure-3</b> "
113.	(ii)	Provision of Electro-mechanical doors for toilets meant for disabled passengers shall be ensured. Children nursing/feeding room shall be located conveniently near arrival and departure gates.	Complied.
114.	(iii)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied.

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## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Reference No.	Condition	Compliance
115.	(iv)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied.
116.	(v)	Occupational health surveillance of the workers shall be done on a regular basis.	Complied.
<b>Conditions of Hon'ble Supreme Court of India (SCI) Order dated 16/01/2020</b>			
117.	(i)	Ref. No. 47: Adopt a Zero Carbon Programme during construction and operational phases of the Airport.	Complied.
118.	(ii)	Ref. No. 48 : The National Environmental Engineering Research Institute (NEERI) to be appointed to oversee compliance with the directions cumulatively issued by the Supreme Court.	Complied.

*Note: For other relevant details, pervious Half Yearly EC Compliance Reports may be referred.*

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**ANNEXURE – 1A**

**ENVIRONMENTAL MITIGATION MEASURES AS PER EIA REPORT AND COMPLIANCE STATUS**  
**(AIRPORT CONSTRUCTION – SPINE ROAD & EXPANSION)**  
**(April 2024 to September 2024)**

No.	Mitigation Measures	Compliance Status
<b>Mitigation Measures for Air Environment during Construction</b>		
1	Ensure preventive maintenance of vehicles and equipment.	Complied.
2	Ensure vehicles with valid Pollution Under Control certificates are used.	Complied.
3	Implement dust control activities such as water sprinkling on unpaved sites.	Complied.
4	Ensure vertical stacks with height sufficient for dispersion as per CPCB guideline for DG stacks.	Complied.
5	Monitor water usage at construction camps to prevent wastage.	Complied.
6	Ensure STP at construction camps/sites and the proposed facilities are properly designed to handle peak waste water load and properly maintained.	Complied.
7	Ensure supply of temporary/portable toilets for construction staff.	Complied.
<b>Mitigation Measures for Land Environment during Construction</b>		
8	Avoiding rainy season for construction so as to avoid soil erosion.	Complied.



## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Mitigation Measures	Compliance Status
9	Restricting all construction activities inside project boundary.	Complied.
10	Ensure top soil stock pile is not contaminated with any type of spills.	Complied.
11	Ensure any material resulting from clearing and grading should not be deposited on approach roads, streams or ditches, which may hinder the passage and/or natural water drainage.	Complied.
<b>Mitigation Measures for Noise Environment during Construction</b>		
12	Ensure preventive maintenance of equipment and vehicles.	Complied.
13	Ensure DG sets are provided with acoustic enclosures and exhaust mufflers.	Complied.
14	Ensure vehicle movement is avoided at night, and close to sensitive receptors (such as schools, hospitals, place of worships).	Complied.
<b>Mitigation Measures for Biological Environment during Construction</b>		
15	Keep a tally of trees cut.	No trees were cut.
16	Avoid cutting of trees wherever possible.	Complied.
17	Closing of trenches as soon as possible after pipeline laying, if any.	Complied.
<b>Mitigation Measures for Socio-economic Environment during Construction</b>		
18	Prohibit use of firewood in project camps and making use of cooking gas is mandatory.	Complied.
19	Regulating speed limit of the vehicles	Complied.

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**ANNEXURE – 1B**

**ENVIRONMENTAL MITIGATION MEASURES AS PER EIA REPORT AND COMPLIANCE STATUS**  
**(AIRPORT OPERATION)**  
**(April 2024 to September 2024)**

No.	Mitigation Measures	Compliance Status
<b>Mitigation Measures for Air Environment during Operation</b>		
1	Develop peripheral green belt in the proposed Airport premises.	Complied.
2	Ensure preventive maintenance of vehicles and equipment	Complied.
<b>Mitigation Measures for Water Environment during Operation</b>		
3	Tracking of raw water consumption through water meters	Complied.
4	Installation of rainwater harvesting structures	Complied.
5	Explore opportunities for drip irrigation system for greenbelt development	Complied.

**RANGANATHAN VENKATASHESHAN**

Digitally signed by RANGANATHAN VENKATASHESHAN  
 DN: c=IN, o=Personal, postalCode=562157, st=Karnataka, serialNumber=2C9AC6829383C455D089051156AC282D0674042FFDC0B889EC9B624F81F9BEA0, cn=RANGANATHAN VENKATASHESHAN  
 Date: 2024.11.29 +05'30'

## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Mitigation Measures	Compliance Status
<b>Mitigation Measures for Land Environment during Operation</b>		
6	Develop and maintain dedicated waste storage areas	Complied.
7	Ensure hazardous waste storage areas are provided with secondary containment	Complied.
<b>Mitigation Measures for Noise Environment during Operation</b>		
8	On top of quota system, there is also an absolute limit on the number of flights permitted at the airport	Our operations are in compliance to DGCA approved Airport Noise Zone Mapping / MoEF&CC Notification GSR-568 (E).
9	The noisiest aircraft use 16 points of the quota and they are called QC16s (QC = Quota Count). The next noisiest have eight points - QC8s. As planes get quieter, their points get smaller until the quietest planes have just half a point or are exempt together.	Our operations are in compliance to DGCA approved Airport Noise Zone Mapping / MoEF&CC Notification GSR-568 (E).
10	During the night quota period the noisiest types of planes are not permitted to be scheduled. Because there is a limit on the airport's total quota of points for night time flying, this system encourages airlines who want to fly at night to use the quietest aircraft.	Our operations are in compliance to DGCA approved Airport Noise Zone Mapping / MoEF&CC Notification GSR-568 (E).
11	Pilots are encouraged not to use reverse thrust between 23:00 and 6:00 except in the interest of safety.	Complied.

**RANGANATHAN VENKATASHESHAN**  
Digitally signed by RANGANATHAN VENKATASHESHAN  
 DN: c=IN, o=Personal, postalCode=562157, st=Karnataka, serialNumber=2C9AC6829383C455D089051156AC282D0674042FFDC08889EC9B624F81F9BEA0, cn=RANGANATHAN VENKATASHESHAN  
 Date: 2024.11.29 +05'30'

## Half Yearly EC Compliance Report (April 2024 to September 2024)



No.	Mitigation Measures	Compliance Status
<b>Mitigation Measures for Biological Environment during Operation</b>		
12	Proper maintenance of green belt developed	Complied.
13	Regulating speeding of vehicles on approach road of Airport	Complied.
<b>Mitigation Measures for Socio-economic Environment during Operation</b>		
14	Ensure implementation of disaster management plan	Complied.

RANGANATH  
AN VENKATA  
SHESHAN

Digitally signed by RANGANATHAN  
VENKATA SHESHAN  
DN: c=IN, o=Personal,  
postalCode=562157, st=Karnataka,  
serialNumber=2C9AC6829383C455D0  
89051156AC282D0674042FFDC08889  
EC98624F81F9BEAD,  
cn=RANGANATHAN VENKATA  
SHESHAN  
Date: 2024.11.29 +05'30'

## **ANNEXURE – 2**

### **Environmental Quality Monitoring Report for the period of April 2024 to September 2024**



# GADARK LAB PVT. LTD.

## INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525.  
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	04/05/2024		
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	April 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	33.5	Average Humidity (%)	60
Average Wind Speed (km/hr)	92	Average Wind direction (Deg)	317
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0650	34.3	71.12	24.66	< 6.0	< 9.0	0.62	141.8	0.05	< 1.0
2	04.04.2024	GA/24/0670	36.4	74.10	26.11	< 6.0	< 9.0	0.42	133.6	0.05	< 1.0
3	08.04.2024	GA/24/0703	31.9	71.96	24.04	< 6.0	< 9.0	0.59	163.0	0.05	< 1.0
4	11.04.2024	GA/24/0717	39.1	74.46	26.82	< 6.0	< 9.0	0.56	164.3	0.09	< 1.0
5	15.04.2024	GA/24/0730	37.5	71.70	23.87	< 6.0	< 9.0	0.44	120.0	0.01	< 1.0
6	18.04.2024	GA/24/0741	34.4	67.91	26.11	< 6.0	< 9.0	0.51	151.3	0.05	< 1.0
7	22.04.2024	GA/24/0754	37.3	70.36	28.15	< 6.0	< 9.0	0.96	156.6	0.03	< 1.0
8	25.04.2024	GA/24/0767	43.5	73.57	32.19	< 6.0	< 9.0	0.61	130.0	0.04	< 1.0
9	29.04.2024	GA/24/0782	46.2	76.09	36.72	< 6.0	< 9.0	0.32	137.5	0.07	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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

Note :

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- Samples will be preserved for a period 15 days from the delivery of Test Report.
- Test Results relate only to the conditions prevailing at the time of sampling.
- Customer complaint register is available at laboratory.
- 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  
[SACHIN B. GAONKAR]



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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	08/01/2024	07/01/2025
Respirable Dust Sampler Sr. No. 1544-DTJ-2019	08/10/2023	07/10/2024
Gaseoue Sampler Sr. No. 210-B-2022	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	33.0	Average Humidity (%)	65
Average Wind Speed (km/hr)	87	Average Wind direction (Deg)	310
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0649	34.7	63.09	24.08	< 6.0	< 9.0	0.27	124.8	0.05	< 1.0
2	04.04.2024	GA/24/0669	36.7	65.30	25.86	< 6.0	< 9.0	0.30	130.5	0.08	< 1.0
3	08.04.2024	GA/24/0702	34.2	63.30	22.50	< 6.0	< 9.0	0.41	122.0	0.05	< 1.0
4	11.04.2024	GA/24/0716	36.8	65.40	23.87	< 6.0	< 9.0	0.45	124.6	0.07	< 1.0
5	15.04.2024	GA/24/0729	38.9	57.29	25.99	< 6.0	< 9.0	0.55	138.0	0.01	< 1.0
6	18.04.2024	GA/24/0740	35.0	60.78	28.03	< 6.0	< 9.0	0.37	133.8	0.05	< 1.0
7	22.04.2024	GA/24/0753	36.4	63.06	26.36	< 6.0	< 9.0	0.33	124.3	0.04	< 1.0
8	25.04.2024	GA/24/0766	32.3	69.90	28.32	< 6.0	< 9.0	0.72	125.0	0.05	< 1.0
	29.04.2024	GA/24/0781	32.3	71.06	30.15	< 6.0	< 9.0	0.59	120.2	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 325-DTE-2015	13/02/2024	12/02/2025
Respirable Dust Sampler Sr. No. 475-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 471-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	34.0	Average Humidity (%)	58
Average Wind Speed (km/hr)	102.5	Average Wind direction (Deg)	322.8
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0642	38.5	73.07	24.74	< 6.0	< 9.0	0.80	128.1	0.03	< 1.0
2	04.04.2024	GA/24/0662	39.9	74.40	27.03	< 6.0	< 9.0	0.73	154.9	0.05	< 1.0
3	08.04.2024	GA/24/0695	37.4	72.28	25.12	< 6.0	< 9.0	0.53	140.6	0.06	< 1.0
4	11.04.2024	GA/24/0709	43.7	75.25	28.73	< 6.0	< 9.0	0.60	143.6	0.04	< 1.0
5	15.04.2024	GA/24/0722	41.0	73.20	27.11	< 6.0	< 9.0	0.40	145.7	0.04	< 1.0
6	18.04.2024	GA/24/0733	39.2	72.86	25.12	< 6.0	< 9.0	0.77	120.1	0.02	< 1.0
7	22.04.2024	GA/24/0746	36.7	69.85	27.03	< 6.0	< 9.0	0.48	126.3	0.04	< 1.0
8	25.04.2024	GA/24/0759	57.0	76.39	37.92	< 6.0	< 9.0	0.85	152.7	0.04	< 1.0
9	29.04.2024	GA/24/0774	59.5	78.54	39.34	< 6.0	< 9.0	0.49	146.8	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 934-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2832-DTB-2020	15/02/2024	14/02/2025
Gaseous Sampler Sr. No. 6888-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	68
Average Wind Speed (km/hr)	90.5	Average Wind direction (Deg)	270
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0643	33.3	71.09	21.54	< 6.0	< 9.0	0.30	146.1	0.03	< 1.0
2	04.04.2024	GA/24/0663	35.4	73.66	23.08	< 6.0	< 9.0	0.59	139.7	0.05	< 1.0
3	08.04.2024	GA/24/0696	33.7	71.02	21.62	< 6.0	< 9.0	0.56	152.0	0.04	< 1.0
4	11.04.2024	GA/24/0710	37.0	69.48	23.91	< 6.0	< 9.0	0.34	144.9	0.05	< 1.0
5	15.04.2024	GA/24/0723	39.0	71.11	24.41	< 6.0	< 9.0	0.30	123.4	0.02	< 1.0
6	18.04.2024	GA/24/0734	37.9	68.66	21.62	< 6.0	< 9.0	0.64	139.5	0.06	< 1.0
7	22.04.2024	GA/24/0747	34.8	66.35	20.71	< 6.0	< 9.0	0.44	143.5	0.05	< 1.0
8	25.04.2024	GA/24/0760	48.5	72.60	31.44	< 6.0	< 9.0	0.65	150.6	0.06	< 1.0
9	29.04.2024	GA/24/0775	50.1	74.36	33.85	< 6.0	< 9.0	0.58	126.7	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



  
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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. 936-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2842-DTB-2020	16/02/2024	15/02/2025
Gaseoue Sampler Sr. No. 6896-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	33.0	Average Humidity (%)	61
Average Wind Speed (km/hr)	88.1	Average Wind direction (Deg)	322
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0644	14.0	56.47	17.17	< 6.0	< 9.0	0.79	156.8	0.06	< 1.0
2	04.04.2024	GA/24/0664	17.1	57.04	20.63	< 6.0	< 9.0	0.74	140.4	0.03	< 1.0
3	08.04.2024	GA/24/0697	15.9	56.31	18.17	< 6.0	< 9.0	0.93	169.5	0.05	< 1.0
4	11.04.2024	GA/24/0711	17.3	57.27	20.63	< 6.0	< 9.0	0.37	136.0	0.07	< 1.0
5	15.04.2024	GA/24/0724	18.5	56.05	18.92	< 6.0	< 9.0	0.64	154.8	0.01	< 1.0
6	18.04.2024	GA/24/0735	19.9	57.81	16.30	< 6.0	< 9.0	0.52	124.7	0.06	< 1.0
7	22.04.2024	GA/24/0748	18.6	60.88	18.38	< 6.0	< 9.0	0.58	163.9	0.04	< 1.0
8	25.04.2024	GA/24/0761	14.0	58.50	13.56	< 6.0	< 9.0	0.58	145.7	0.04	< 1.0
9	29.04.2024	GA/24/0776	16.4	60.50	15.68	< 6.0	< 9.0	0.61	133.5	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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**  
**[SACHIN B. GAONKAR]**



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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. 942-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 670-E-23	18/10/2023	17/10/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	33.5	Average Humidity (%)	57
Average Wind Speed (km/hr)	88.8	Average Wind direction (Deg)	292
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0647	33.3	62.18	23.54	< 6.0	< 9.0	0.32	130.0	0.05	< 1.0
2	04.04.2024	GA/24/0667	35.0	64.12	25.62	< 6.0	< 9.0	0.46	159.8	0.02	< 1.0
3	08.04.2024	GA/24/0700	31.9	63.09	23.58	< 6.0	< 9.0	0.62	137.5	0.04	< 1.0
4	11.04.2024	GA/24/0714	29.2	61.67	21.54	< 6.0	< 9.0	0.28	134.3	0.07	< 1.0
5	15.04.2024	GA/24/0727	30.1	63.07	22.95	< 6.0	< 9.0	0.68	150.4	0.01	< 1.0
6	18.04.2024	GA/24/0738	27.6	65.43	24.33	< 6.0	< 9.0	0.56	142.3	0.03	< 1.0
7	22.04.2024	GA/24/0751	28.7	67.22	22.66	< 6.0	< 9.0	0.62	157.4	0.05	< 1.0
8	25.04.2024	GA/24/0764	34.5	70.64	29.61	< 6.0	< 9.0	0.51	145.0	0.04	< 1.0
9	29.04.2024	GA/24/0779	36.7	72.14	31.15	< 6.0	< 9.0	0.64	128.4	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 56-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1329-R-273-DTC-2015	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6773-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	60
Average Wind Speed (km/hr)	101	Average Wind direction (Deg)	280
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0645	31.5	62.26	21.87	< 6.0	< 9.0	0.43	141.7	0.05	< 1.0
2	04.04.2024	GA/24/0665	33.5	64.45	24.49	< 6.0	< 9.0	0.70	161.5	0.06	< 1.0
3	08.04.2024	GA/24/0698	31.9	62.59	22.46	< 6.0	< 9.0	0.42	132.3	0.04	< 1.0
4	11.04.2024	GA/24/0712	33.8	62.28	21.71	< 6.0	< 9.0	0.23	152.2	0.07	< 1.0
5	15.04.2024	GA/24/0725	31.9	60.85	23.04	< 6.0	< 9.0	0.69	143.1	0.02	< 1.0
6	18.04.2024	GA/24/0736	30.6	58.71	19.88	< 6.0	< 9.0	0.62	153.6	0.05	< 1.0
7	22.04.2024	GA/24/0749	30.6	63.32	21.50	< 6.0	< 9.0	0.42	122.1	0.06	< 1.0
8	25.04.2024	GA/24/0762	35.6	67.55	25.37	< 6.0	< 9.0	0.73	148.6	0.05	< 1.0
9	29.04.2024	GA/24/0777	37.0	69.17	28.11	< 6.0	< 9.0	0.55	126.3	0.05	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXII) 2006	IS 5182 (Part XXIV) 2008	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**  
**[SACHIN B. GAONKAR]**



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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. 1163-E-22	15/05/2023	15/05/2024
Respirable Dust Sampler Sr. No. 476-A-23	09/01/2024	08/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	33.5	Average Humidity (%)	61
Average Wind Speed (km/hr)	82.4	Average Wind direction (Deg)	272.4
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0648	13.5	61.09	20.21	< 6.0	< 9.0	0.32	121.3	0.05	< 1.0
2	04.04.2024	GA/24/0668	15.7	62.90	22.16	< 6.0	< 9.0	0.32	126.1	0.03	< 1.0
3	08.04.2024	GA/24/0701	13.8	60.12	20.21	< 6.0	< 9.0	0.72	143.7	0.05	< 1.0
4	11.04.2024	GA/24/0715	12.1	58.58	18.30	< 6.0	< 9.0	0.33	143.8	0.06	< 1.0
5	15.04.2024	GA/24/0728	14.2	56.56	20.21	< 6.0	< 9.0	0.44	123.7	0.01	< 1.0
6	18.04.2024	GA/24/0739	13.0	54.88	23.20	< 6.0	< 9.0	0.83	143.5	0.04	< 1.0
7	22.04.2024	GA/24/0752	13.0	52.05	20.21	< 6.0	< 9.0	0.38	144.4	0.05	< 1.0
8	25.04.2024	GA/24/0765	16.6	57.31	19.05	< 6.0	< 9.0	0.81	122.5	0.05	< 1.0
9	29.04.2024	GA/24/0780	18.0	59.63	21.12	< 6.0	< 9.0	0.53	145.5	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 60-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	15/02/2024	14/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/05/2024		
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	April 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	64
Average Wind Speed (km/hr)	72.5	Average Wind direction (Deg)	288
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.04.2024	GA/24/0646	17.6	55.72	18.50	< 6.0	< 9.0	0.38	151.0	0.06	< 1.0
2	04.04.2024	GA/24/0666	19.5	57.17	20.75	< 6.0	< 9.0	0.37	133.4	0.06	< 1.0
3	08.04.2024	GA/24/0699	18.7	54.70	17.47	< 6.0	< 9.0	0.26	124.8	0.04	< 1.0
4	11.04.2024	GA/24/0713	18.8	55.86	15.30	< 6.0	< 9.0	0.38	125.0	0.08	< 1.0
5	15.04.2024	GA/24/0726	17.7	53.04	17.05	< 6.0	< 9.0	0.76	157.1	0.01	< 1.0
6	18.04.2024	GA/24/0737	16.8	51.95	20.83	< 6.0	< 9.0	0.71	146.8	0.04	< 1.0
7	22.04.2024	GA/24/0750	18.0	53.87	18.30	< 6.0	< 9.0	0.39	126.5	0.05	< 1.0
8	25.04.2024	GA/24/0763	17.7	51.30	16.63	< 6.0	< 9.0	0.50	136.2	0.05	< 1.0
9	29.04.2024	GA/24/0778	20.0	53.81	19.88	< 6.0	< 9.0	0.78	153.6	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 940-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 477-A-23	09/01/2024	08/01/2025
Gaseous Sampler Sr. No. 470-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

NOISE LEVEL MONITORING REPORT									
Date of Issue		02/05/2024							
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)	
						Leq		Leq	
1	12.04.2024	GA/24/0718	G-N1	I	Mopa Boundary	58.7		51.1	
2	12.04.2024	GA/24/0719	G-N2	I	Shemeheadvan	62.5		52.4	
3	10.04.2024	GA/24/0707	G-N3	C	Nagzar	58.3		52.3	
4	10.04.2024	GA/24/0708	G-N4	R	Purva Casarvarnem	47.8		37.8	
5	18.04.2024	GA/24/0743	G-N5	R	Chandel	52.9		40.9	
6	16.04.2024	GA/24/0732	G-N6	R	Khajne Amere Porscodem	49.7		43.9	
7	18.04.2024	GA/24/0742	G-N7	R	Warkhand	52.9		41.6	
8	23.04.2024	GA/24/0758	G-N8	C	Rajvil Wada Torxem	58.0		52.4	
9	23.04.2024	GA/24/0757	G-N9	C	Village Panchayant Tamboxem - Mopa - Ugven	56.1		51.4	
10	16.04.2024	GA/24/0731	M-N1	R	Satarda	50.8		41.3	
11	09.04.2024	GA/24/0705	M-N2	R	Dingane	53.9		43.3	
12	09.04.2024	GA/24/0706	M-N3	R	Netarde	46.4		31.4	
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.									
<b>Note :</b> 1. The results relate only to the samples tested. 2. Test Report shall not be reproduced except in full, without written approval of the laboratory. 3. Test Results relate only to the conditions prevailing at the time of sampling. 4. Customer complaint register is available at laboratory. 5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.									
For <b>GADARK LAB PVT. LTD.</b>									
<b>AUTHORISED SIGNATORY</b> <b>[SACHIN B. GAONKAR]</b>						<b>CHECKED BY</b>			



**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 554067	16/05/2023	16/05/2024

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 546176	23/06/2023	23/06/2024



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

## TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE					
Report No.	GW/24/0718		Report Date	27/04/2024	
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 22/04/2024	Environmental Condition of Lab	Temp °C	Humidity %	
			31.0	71	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060		
Sampling Point	STP Outlet (A.C.F.)				
Sampling Details	STP Outlet (A.C.F.) Water Sample	Date of Collection	22/04/2024		
Sample Collected by	GLPL Representative	Sample Received On	23/04/2024		
Analysis Started On	23/04/2024	Analysis Completed On	27/04/2024		
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.25 lit		

### Chemical Testing:

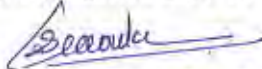
Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	6.95	-	5.5 - 9.0	APHA 4500 H <sup>+</sup>
2	Chemical Oxygen Demand (COD)	24	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	9	mg/lit	10.00	IS 3025 (Part 44)
4	Total Suspended Solids (TSS)	24	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	2	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.59	mg/lit	5.00	APHA 4500 NH <sub>3</sub> B&C
7	Total Nitrogen (as N)	8.96	mg/lit	10.00	APHA 4500-Norg
8	Phosphorous	12.84	mg/lit	---	APHA 4500 P D

### Microbiological Parameters:

9	Fecal Coliform at 44.5°C for 24 hrs.	94	MPN Index/100ml	100	APHA 9221 E
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End

For GADARK LAB PVT. LTD.

  
AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]



  
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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/2306110	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2306129	30/06/2023	29/06/2024
04.	BOD Incubator	GL/EQ/I/02	AVI/2306122	30/06/2023	29/06/2024
05.	Microbiological Incubator (35 ° C)	GL/EQ/I/03	AVI/2306127	30/06/2023	29/06/2024
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I/01	AVI/2306126	30/06/2023	29/06/2024
07.	Laminar Air Flow	GL/EQ/LAF/01	TECH/VAL/ 2024/02/107	15/02/2024	14/02/2025
08.	Autoclave	GL/EQ/A/01	AVI/2306111	29/06/2023	28/06/2024



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	34.0	Average Humidity (%)	62
Average Wind Speed (km/hr)	101	Average Wind direction (Deg)	311
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0793	47.9	78.38	38.76	< 6.0	< 9.0	0.44	129.4	0.03	< 1.0
2	06.05.2024	GA/24/0845	45.6	76.27	35.18	< 6.0	< 9.0	0.50	125.0	0.06	< 1.0
3	09.05.2024	GA/24/0915	43.3	74.33	34.47	< 6.0	< 9.0	0.45	141.9	0.07	< 1.0
4	13.05.2024	GA/24/0931	46.8	76.27	36.18	< 6.0	< 9.0	0.22	125.9	0.05	< 1.0
5	16.05.2024	GA/24/0947	43.7	72.40	34.39	< 6.0	< 9.0	0.55	140.0	0.06	< 1.0
6	20.05.2024	GA/24/0982	41.4	70.31	32.48	< 6.0	< 9.0	0.60	140.0	0.05	< 1.0
7	23.05.2024	GA/24/1021	38.4	68.37	29.73	< 6.0	< 9.0	0.50	155.0	0.07	< 1.0
8	27.05.2024	GA/24/1070	35.9	65.99	27.65	< 6.0	< 9.0	0.58	140.6	0.05	< 1.0
9	30.05.2024	GA/24/1107	38.1	69.36	29.23	< 6.0	< 9.0	0.38	124.1	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2008	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2008	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  
[SACHIN B. GAONKAR]



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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	08/01/2024	07/01/2025
Respirable Dust Sampler Sr. No. 1544-DTJ-2019	08/10/2023	07/10/2024
Gaseous Sampler Sr. No. 210-B-2022	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	33.5	Average Humidity (%)	66
Average Wind Speed (km/hr)	90	Average Wind direction (Deg)	304
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0792	33.9	73.62	34.10	< 6.0	< 9.0	0.39	149.8	0.05	< 1.0
2	06.05.2024	GA/24/0844	31.8	71.40	29.98	< 6.0	< 9.0	0.34	144.5	0.04	< 1.0
3	09.05.2024	GA/24/0914	30.4	69.99	31.06	< 6.0	< 9.0	0.51	152.5	0.06	< 1.0
4	13.05.2024	GA/24/0930	33.0	73.12	34.02	< 6.0	< 9.0	0.58	133.7	0.06	< 1.0
5	16.05.2024	GA/24/0946	30.4	69.62	31.56	< 6.0	< 9.0	0.85	161.4	0.06	< 1.0
6	20.05.2024	GA/24/0981	28.2	29.52	67.55	< 6.0	< 9.0	0.47	138.4	0.07	< 1.0
7	23.05.2024	GA/24/1020	24.6	65.48	26.36	< 6.0	< 9.0	0.94	168.5	0.05	< 1.0
8	27.05.2024	GA/24/1069	21.8	63.26	24.99	< 6.0	< 9.0	0.56	138.4	0.05	< 1.0
	30.05.2024	GA/24/1106	24.0	65.51	26.28	< 6.0	< 9.0	0.39	123.8	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 325-DTE-2015	13/02/2024	12/02/2025
Respirable Dust Sampler Sr. No. 475-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 471-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	33.5	Average Humidity (%)	60
Average Wind Speed (km/hr)	118	Average Wind direction (Deg)	321.2
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0785	57.6	80.87	42.12	< 6.0	< 9.0	0.61	144.8	0.03	< 1.0
2	06.05.2024	GA/24/0837	55.6	78.64	39.80	< 6.0	< 9.0	0.58	143.6	0.04	< 1.0
3	09.05.2024	GA/24/0907	53.6	75.28	37.76	< 6.0	< 9.0	0.58	135.5	0.01	< 1.0
4	13.05.2024	GA/24/0923	55.5	77.01	39.13	< 6.0	< 9.0	0.46	120.1	0.02	< 1.0
5	16.05.2024	GA/24/0939	52.7	73.54	36.39	< 6.0	< 9.0	0.64	167.4	0.05	< 1.0
6	20.05.2024	GA/24/0974	49.3	71.26	34.02	< 6.0	< 9.0	0.50	147.4	0.06	< 1.0
7	23.05.2024	GA/24/1013	41.7	69.77	32.56	< 6.0	< 9.0	0.72	165.5	0.05	< 1.0
8	27.05.2024	GA/24/1062	39.5	67.68	30.11	< 6.0	< 9.0	0.30	121.9	0.06	< 1.0
9	30.05.2024	GA/24/1099	43.1	71.53	34.89	< 6.0	< 9.0	0.66	147.7	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2008	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  
[SACHIN B. GAONKAR]



  
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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. 934-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2832-DTB-2020	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6888-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	72
Average Wind Speed (km/hr)	104	Average Wind direction (Deg)	279
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0786	52.0	76.11	35.51	< 6.0	< 9.0	0.57	128.6	0.05	< 1.0
2	06.05.2024	GA/24/0838	50.6	75.15	33.02	< 6.0	< 9.0	0.68	133.2	0.04	< 1.0
3	09.05.2024	GA/24/0908	47.6	73.46	35.39	< 6.0	< 9.0	0.53	131.1	0.04	< 1.0
4	13.05.2024	GA/24/0924	50.4	75.06	38.13	< 6.0	< 9.0	0.38	132.4	0.04	< 1.0
5	16.05.2024	GA/24/0940	48.7	71.60	35.10	< 6.0	< 9.0	0.47	125.6	0.05	< 1.0
6	20.05.2024	GA/24/0975	46.4	69.05	32.89	< 6.0	< 9.0	0.60	158.9	0.04	< 1.0
7	23.05.2024	GA/24/1014	38.9	66.41	29.07	< 6.0	< 9.0	0.62	137.0	0.05	< 1.0
8	27.05.2024	GA/24/1063	35.9	63.76	27.78	< 6.0	< 9.0	0.68	145.5	0.07	< 1.0
9	30.05.2024	GA/24/1100	40.4	64.65	29.86	< 6.0	< 9.0	0.51	166.3	0.05	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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**  
**[SACHIN B. GAONKAR]**



*for Bagayath*  
**CHECKED BY**

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

Ambient Instrument No. 2	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 936-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2842-DTB-2020	16/02/2024	15/02/2025
Gaseoue Sampler Sr. No. 6896-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## INDUSTRIAL ANALYSTS & CONSULTANTS

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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	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	68
Average Wind Speed (km/hr)	91	Average Wind direction (Deg)	318
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0787	17.9	62.87	17.63	< 6.0	< 9.0	0.72	152.7	0.03	< 1.0
2	06.05.2024	GA/24/0839	14.2	60.78	15.59	< 6.0	< 9.0	0.86	159.8	0.07	< 1.0
3	09.05.2024	GA/24/0909	13.1	58.72	20.96	< 6.0	< 9.0	0.46	153.7	0.05	< 1.0
4	13.05.2024	GA/24/0925	15.0	56.29	19.09	< 6.0	< 9.0	0.31	131.9	0.03	< 1.0
5	16.05.2024	GA/24/0941	13.7	52.64	17.63	< 6.0	< 9.0	0.52	132.0	0.06	< 1.0
6	20.05.2024	GA/24/0976	12.8	51.09	15.68	< 6.0	< 9.0	0.48	139.9	0.05	< 1.0
7	23.05.2024	GA/24/1015	10.4	48.24	13.81	< 6.0	< 9.0	0.49	136.9	0.04	< 1.0
8	27.05.2024	GA/24/1064	11.7	46.63	12.02	< 6.0	< 9.0	0.71	143.2	0.06	< 1.0
9	30.05.2024	GA/24/1101	13.4	49.10	14.43	< 6.0	< 9.0	0.37	131.4	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 942-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 670-E-23	18/10/2023	17/10/2024
Gaseoue Sampler Sr. No. 8904-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	63
Average Wind Speed (km/hr)	101.5	Average Wind direction (Deg)	300
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0790	38.8	73.04	33.39	< 6.0	< 9.0	0.52	137.8	0.04	< 1.0
2	06.05.2024	GA/24/0842	35.3	70.94	31.98	< 6.0	< 9.0	0.53	139.4	0.05	< 1.0
3	09.05.2024	GA/24/0912	33.0	59.60	29.61	< 6.0	< 9.0	0.33	124.7	0.06	< 1.0
4	13.05.2024	GA/24/0928	35.3	62.31	32.39	< 6.0	< 9.0	0.61	141.9	0.06	< 1.0
5	16.05.2024	GA/24/0944	32.9	58.35	34.47	< 6.0	< 9.0	0.71	130.5	0.05	< 1.0
6	20.05.2024	GA/24/0979	30.5	56.29	29.15	< 6.0	< 9.0	0.42	138.5	0.05	< 1.0
7	23.05.2024	GA/24/1018	26.0	54.87	26.36	< 6.0	< 9.0	0.58	135.4	0.05	< 1.0
8	27.05.2024	GA/24/1067	24.9	52.29	24.12	< 6.0	< 9.0	0.52	130.9	0.06	< 1.0
9	30.05.2024	GA/24/1104	27.6	54.53	22.29	< 6.0	< 9.0	0.69	166.8	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2005	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  
[SACHIN B. GAONKAR]



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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. 56-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1329-R-273-DTC-2015	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6773-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	65
Average Wind Speed (km/hr)	112	Average Wind direction (Deg)	288
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0788	39.6	71.17	31.02	< 6.0	< 9.0	0.66	153.1	0.02	< 1.0
2	06.05.2024	GA/24/0840	36.9	68.90	28.86	< 6.0	< 9.0	0.75	131.0	0.1	< 1.0
3	09.05.2024	GA/24/0910	33.8	68.01	27.07	< 6.0	< 9.0	0.64	121.9	0.07	< 1.0
4	13.05.2024	GA/24/0926	32.0	66.42	24.70	< 6.0	< 9.0	0.35	151.2	0.05	< 1.0
5	16.05.2024	GA/24/0942	28.4	62.76	22.04	< 6.0	< 9.0	0.70	154.9	0.04	< 1.0
6	20.05.2024	GA/24/0977	25.1	60.60	20.29	< 6.0	< 9.0	0.56	147.7	0.05	< 1.0
7	23.05.2024	GA/24/1016	21.0	58.12	18.55	< 6.0	< 9.0	0.91	155.6	0.09	< 1.0
8	27.05.2024	GA/24/1065	19.1	55.70	15.80	< 6.0	< 9.0	0.73	160.3	0.06	< 1.0
9	30.05.2024	GA/24/1102	23.4	57.13	17.22	< 6.0	< 9.0	0.44	143.5	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2008	IS 5182 (Part X) 1998	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For **GADARK LAB PVT. LTD.**

**AUTHORISED SIGNATORY**  
**[SACHIN B. GAONKAR]**



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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. 1163-E-22	18/05/2024	17/05/2025
Respirable Dust Sampler Sr. No. 476-A-23	09/01/2024	08/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	66
Average Wind Speed (km/hr)	91.5	Average Wind direction (Deg)	278.6
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0791	19.5	22.87	61.26	< 6.0	< 9.0	0.29	124.3	0.03	< 1.0
2	06.05.2024	GA/24/0843	17.7	59.76	20.04	< 6.0	< 9.0	0.43	170.9	0.04	< 1.0
3	09.05.2024	GA/24/0913	19.7	58.04	22.83	< 6.0	< 9.0	0.74	138.7	0.04	< 1.0
4	13.05.2024	GA/24/0929	22.3	60.00	24.45	< 6.0	< 9.0	0.46	126.4	0.05	< 1.0
5	16.05.2024	GA/24/0945	19.9	55.73	20.13	< 6.0	< 9.0	0.74	156.0	0.05	< 1.0
6	20.05.2024	GA/24/0980	18.5	52.87	19.00	< 6.0	< 9.0	0.53	144.6	0.06	< 1.0
7	23.05.2024	GA/24/1019	14.6	50.57	16.84	< 6.0	< 9.0	0.79	144.8	0.07	< 1.0
8	27.05.2024	GA/24/1068	12.8	48.20	14.76	< 6.0	< 9.0	0.39	135.3	0.05	< 1.0
9	30.05.2024	GA/24/1105	14.7	50.05	16.09	< 6.0	< 9.0	0.52	161.6	0.05	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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**  
**[SACHIN B. GAONKAR]**



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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. 60-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	15/02/2024	14/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/06/2024		
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	May 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	71
Average Wind Speed (km/hr)	80.8	Average Wind direction (Deg)	290
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.05.2024	GA/24/0789	22.5	55.35	21.04	< 6.0	< 9.0	0.41	129.3	0.02	< 1.0
2	06.05.2024	GA/24/0841	20.6	53.66	19.29	< 6.0	< 9.0	0.64	157.8	0.04	< 1.0
3	09.05.2024	GA/24/0911	18.8	55.07	17.88	< 6.0	< 9.0	0.45	140.7	0.04	< 1.0
4	13.05.2024	GA/24/0927	15.3	52.86	15.14	< 6.0	< 9.0	0.57	126.7	0.04	< 1.0
5	16.05.2024	GA/24/0943	13.3	48.57	13.35	< 6.0	< 9.0	0.66	144.5	0.04	< 1.0
6	20.05.2024	GA/24/0978	11.5	46.00	11.89	< 6.0	< 9.0	0.43	126.8	0.05	< 1.0
7	23.05.2024	GA/24/1017	10.5	44.26	10.40	< 6.0	< 9.0	0.84	162.7	0.07	< 1.0
8	27.05.2024	GA/24/1066	9.0	42.99	11.98	< 6.0	< 9.0	0.90	168.5	0.05	< 1.0
9	30.05.2024	GA/24/1103	10.8	44.37	13.10	< 6.0	< 9.0	0.43	149.0	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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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- Customer complaint register is available at laboratory.
- 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**  
**[SACHIN B. GAONKAR]**



*[Signature]*  
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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. 940-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 477-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 470-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025






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

## TEST REPORT

NOISE LEVEL MONITORING REPORT							
Date of Issue	01/06/2024						
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)
						Leq	Leq
1	05.05.2024	GA/24/0836	G-N1	I	Mopa Boundary	66.3	57.2
2	05.05.2024	GA/24/0835	G-N2	I	Shemecheadvan	68.9	57.5
3	04.05.2024	GA/24/0815	G-N3	C	Nagzar	51.6	51.9
4	04.05.2024	GA/24/0816	G-N4	R	Purva Casarvarnem	51.1	43.2
5	13.05.2024	GA/24/0933	G-N5	R	Chandel	52.0	42.6
6	10.05.2024	GA/24/0920	G-N6	R	Khajne Amere Porscodem	50.6	43.2
7	13.05.2024	GA/24/0932	G-N7	R	Warkhand	49.1	38.3
8	14.05.2024	GA/24/0935	G-N8	C	Rajvil Wada Torxem	52.3	44.7
9	14.05.2024	GA/24/0936	G-N9	C	Village Panchayant Tamboxem - Mopa - Ugvem	62.0	42.8
10	10.05.2024	GA/24/0919	M-N1	R	Satarda	53.1	42.6
11	03.05.2024	GA/24/0800	M-N2	R	Dingane	49.6	41.1
12	03.05.2024	GA/24/0801	M-N3	R	Netarde	50.2	41.2
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.							
<b>Note :</b> 1. The results relate only to the samples tested. 2. Test Report shall not be reproduced except in full, without written approval of the laboratory. 3. Test Results relate only to the conditions prevailing at the time of sampling. 4. Customer complaint register is available at laboratory. 5. 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 [SACHIN B. GAONKAR]						CHECKED BY	

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 554067	16/05/2023	16/05/2024

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 546176	23/06/2023	23/06/2024



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## TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE					
Report No.	GW/24/0980		Report Date	24/05/2024	
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 18/05/2024	Environmental Condition of Lab	Temp °C	Humidity %	
			32.7	70	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060		
Sampling Point	STP Outlet (A.C.F.)				
Sampling Details	STP Outlet (A.C.F.) Water Sample	Date of Collection	18/05/2024		
Sample Collected by	GLPL Representative	Sample Received On	20/05/2024		
Analysis Started On	20/05/2024	Analysis Completed On	24/05/2024		
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.25 lit		

### Chemical Testing:

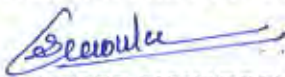
Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	6.92	-	5.5 - 9.0	APHA 4500 H <sup>+</sup>
2	Chemical Oxygen Demand (COD)	44	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	10.00	IS 3025 (Part 44)
4	Total Suspended Solids (TSS)	18	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	3	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.26	mg/lit	5.00	APHA 4500 NH <sub>3</sub> B&C
7	Total Nitrogen (as N)	7.28	mg/lit	10.00	APHA 4500-Norg
8	Phosphorous	17.55	mg/lit	---	APHA 4500 P D

### Microbiological Parameters:

9	Fecal Coliform at 44.5°C for 24 hrs.	70	MPN Index/100ml	100	APHA 9221 E
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End

For GADARK LAB PVT. LTD.

  
AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]



  
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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/2306110	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2306129	30/06/2023	29/06/2024
04.	BOD Incubator	GL/EQ/I/02	AVI/2306122	30/06/2023	29/06/2024
05.	Microbiological Incubator (35 ° C)	GL/EQ/I/03	AVI/2306127	30/06/2023	29/06/2024
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I/01	AVI/2306126	30/06/2023	29/06/2024
07.	Laminar Air Flow	GL/EQ/LAF/01	TECH/VAL/ 2024/02/107	15/02/2024	14/02/2025
08.	Autoclave	GL/EQ/A/01	AVI/2306111	29/06/2023	28/06/2024



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	72
Average Wind Speed (km/hr)	152	Average Wind direction (Deg)	318
Latitude	N 15°45'51.1"	Longitude	E 73°56'32.4"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

### PARAMETERS

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1139	35.9	67.80	25.07	< 6.0	< 9.0	0.78	155.03	0.04	< 1.0
2	06.06.2024	GA/24/1168	32.5	64.98	28.82	< 6.0	< 9.0	0.65	155.0	0.06	< 1.0
3	10.06.2024	GA/24/1207	31.3	63.72	26.07	< 6.0	< 9.0	0.48	126.9	0.04	< 1.0
4	13.06.2024	GA/24/1237	27.8	60.37	24.95	< 6.0	< 9.0	0.50	167.0	0.03	< 1.0
5	17.06.2024	GA/24/1254	25.9	58.98	22.29	< 6.0	< 9.0	0.56	140.1	0.05	< 1.0
6	20.06.2024	GA/24/1273	28.8	60.70	25.24	< 6.0	< 9.0	0.57	167.7	0.06	< 1.0
7	24.06.2024	GA/24/1286	30.1	58.35	20.75	< 6.0	< 9.0	0.34	133.0	0.08	< 1.0
	27.06.2024	GA/24/1298	28.0	56.93	18.55	< 6.0	< 9.0	0.55	132.7	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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.

*Kailas V. Chitalkar*

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]



*K. Bagayatte*  
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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	08/01/2024	07/01/2025
Respirable Dust Sampler Sr. No. 1544-DTJ-2019	08/10/2023	07/10/2024
Gaseoue Sampler Sr. No. 210-B-2022	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	32	Average Humidity (%)	76
Average Wind Speed (km/hr)	111	Average Wind direction (Deg)	315
Latitude	N 15°42'06.1"	Longitude	E 73°49'21.5"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

### PARAMETERS

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PM <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1138	21.1	62.01	24.24	< 6.0	< 9.0	0.71	140.3	0.06	< 1.0
2	06.06.2024	GA/24/1167	17.7	60.13	22.70	< 6.0	< 9.0	0.63	141.3	0.06	< 1.0
3	10.06.2024	GA/24/1206	15.2	58.12	20.63	< 6.0	< 9.0	0.76	173.4	0.04	< 1.0
4	13.06.2024	GA/24/1236	13.4	55.34	18.75	< 6.0	< 9.0	0.52	157.8	0.03	< 1.0
5	17.06.2024	GA/24/1253	12.5	53.96	16.72	< 6.0	< 9.0	0.77	144.4	0.08	< 1.0
6	20.06.2024	GA/24/1272	17.2	55.01	15.59	< 6.0	< 9.0	0.50	146.4	0.07	< 1.0
7	24.06.2024	GA/24/1285	19.1	54.02	14.14	< 6.0	< 9.0	0.38	127.5	0.06	< 1.0
	27.06.2024	GA/24/1297	18.4	53.29	13.02	< 6.0	< 9.0	0.44	112.7	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[KAILAS V. CHITALKAR]



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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	07/10/2023	06/10/2024
Respirable Dust Sampler Sr. No. 475-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 471-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		
<b>AMBIENT AIR LOCATION</b>			
Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	32.5	Average Humidity (%)	64
Average Wind Speed (km/hr)	120	Average Wind direction (Deg)	328
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1131	40.9	68.15	32.93	< 6.0	< 9.0	0.81	163.5	0.07	< 1.0
2	06.06.2024	GA/24/1160	37.8	66.28	30.40	< 6.0	< 9.0	0.41	146.9	0.05	< 1.0
3	10.06.2024	GA/24/1199	35.8	64.87	28.78	< 6.0	< 9.0	0.57	154.1	0.04	< 1.0
4	13.06.2024	GA/24/1229	31.9	62.66	25.57	< 6.0	< 9.0	0.36	138.2	0.03	< 1.0
5	17.06.2024	GA/24/1246	30.4	59.27	22.66	< 6.0	< 9.0	0.46	138.8	0.04	< 1.0
6	20.06.2024	GA/24/1265	32.3	61.76	19.34	< 6.0	< 9.0	0.31	124.2	0.05	< 1.0
7	24.06.2024	GA/24/1278	33.9	59.32	17.59	< 6.0	< 9.0	0.77	164.7	0.03	< 1.0
8	27.06.2024	GA/24/1290	31.5	57.99	16.13	< 6.0	< 9.0	0.86	127.2	0.05	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXII) 2006	IS 5182 (Part XXIV) 2006	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**  
**[KAILAS V. CHITALKAR]**



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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. 934-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2832-DTB-2020	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6888-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



# GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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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	01/07/2024		
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	June2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	79
Average Wind Speed (km/hr)	122	Average Wind direction (Deg)	268.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1132	38.1	62.64	27.49	< 6.0	< 9.0	0.68	141.2	0.07	< 1.0
2	06.06.2024	GA/24/1161	35.3	60.12	25.32	< 6.0	< 9.0	0.58	156.5	0.05	< 1.0
3	10.06.2024	GA/24/1200	32.8	58.05	23.00	< 6.0	< 9.0	0.85	166.2	0.04	< 1.0
4	13.06.2024	GA/24/1230	25.9	56.55	21.54	< 6.0	< 9.0	0.48	168.4	0.03	< 1.0
5	17.06.2024	GA/24/1247	22.6	54.85	19.42	< 6.0	< 9.0	0.49	142.1	0.05	< 1.0
6	20.06.2024	GA/24/1266	25.0	57.25	17.09	< 6.0	< 9.0	0.28	131.5	0.04	< 1.0
7	24.06.2024	GA/24/1279	27.0	56.01	15.47	< 6.0	< 9.0	0.41	124.0	0.06	< 1.0
8	27.06.2024	GA/24/1291	26.0	54.99	13.56	< 6.0	< 9.0	0.68	143.9	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[KAILAS V. CHITALKAR]



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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. 936-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2842-DTB-2020	16/02/2024	15/02/2025
Gaseoue Sampler Sr. No. 6896-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	70
Average Wind Speed (km/hr)	118	Average Wind direction (Deg)	328.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1133	12.0	47.45	12.02	< 6.0	< 9.0	0.63	163.5	0.02	< 1.0
2	06.06.2024	GA/24/1162	10.5	45.40	10.89	< 6.0	< 9.0	0.75	174.8	0.05	< 1.0
3	10.06.2024	GA/24/1201	9.1	44.03	12.02	< 6.0	< 9.0	0.55	135.9	0.05	< 1.0
4	13.06.2024	GA/24/1231	8.1	42.48	10.27	< 6.0	< 9.0	0.35	135.7	0.02	< 1.0
5	17.06.2024	GA/24/1248	9.1	41.01	9.02	< 6.0	< 9.0	0.68	157.8	0.06	< 1.0
6	20.06.2024	GA/24/1267	10.1	44.0	8.19	< 6.0	< 9.0	0.49	157.7	0.07	< 1.0
7	24.06.2024	GA/24/1280	9.3	42.94	9.02	< 6.0	< 9.0	0.47	135.0	0.06	< 1.0
8	27.06.2024	GA/24/1292	8.6	42.01	8.90	< 6.0	< 9.0	0.35	125.6	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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.

*Kailas V. Chitalkar*

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]



*K. Bagayath*  
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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. 942-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 670-E-23	18/10/2023	17/10/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	32.0	Average Humidity (%)	71
Average Wind Speed (km/hr)	132.5	Average Wind direction (Deg)	312
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1136	25.8	53.03	20.75	< 6.0	< 9.0	0.38	154.4	0.06	< 1.0
2	06.06.2024	GA/24/1165	23.3	49.95	18.26	< 6.0	< 9.0	0.39	140.7	0.06	< 1.0
3	10.06.2024	GA/24/1204	21.2	47.02	16.38	< 6.0	< 9.0	0.71	138.8	0.06	< 1.0
4	13.06.2024	GA/24/1234	18.4	44.69	14.39	< 6.0	< 9.0	0.59	141.4	0.03	< 1.0
5	17.06.2024	GA/24/1251	15.9	43.22	12.72	< 6.0	< 9.0	0.25	126.4	0.08	< 1.0
6	20.06.2024	GA/24/1270	18.0	47.22	14.26	< 6.0	< 9.0	0.77	177.9	0.04	< 1.0
7	24.06.2024	GA/24/1283	20.0	46.99	14.01	< 6.0	< 9.0	0.67	147.6	0.05	< 1.0
8	27.06.2024	GA/24/1295	18.6	46.05	12.97	< 6.0	< 9.0	0.27	125.8	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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.

*Kailas V. Chitalkar*

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]



*K. S. S. S.*  
CHECKED BY

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 56-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1329-R-273-DTC-2015	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6773-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		

### 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)	121	Average Wind direction (Deg)	300.4
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1134	21.1	54.53	14.80	< 6.0	< 9.0	0.48	120.0	0.05	< 1.0
2	06.06.2024	GA/24/1163	18.6	52.18	12.64	< 6.0	< 9.0	0.51	130.4	0.05	< 1.0
3	10.06.2024	GA/24/1202	15.9	50.04	14.55	< 6.0	< 9.0	0.52	151.0	0.05	< 1.0
4	13.06.2024	GA/24/1232	13.4	48.47	13.02	< 6.0	< 9.0	0.37	133.2	0.03	< 1.0
5	17.06.2024	GA/24/1249	12.1	46.31	11.98	< 6.0	< 9.0	0.67	172.5	0.07	< 1.0
6	20.06.2024	GA/24/1268	16.8	48.97	13.89	< 6.0	< 9.0	0.72	158.3	0.06	< 1.0
7	24.06.2024	GA/24/1281	18.5	48.01	12.39	< 6.0	< 9.0	0.37	143.1	0.06	< 1.0
8	27.06.2024	GA/24/1293	16.2	46.96	12.02	< 6.0	< 9.0	0.63	138.9	0.09	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2008	IS 5182 (Part XXIV) 2006	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  
[KAILAS V. CHITALKAR]

  
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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. 1344-G-23	17/10/2023	17/10/2024
Respirable Dust Sampler Sr. No. 194-E-22	17/05/2024	16/05/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	73
Average Wind Speed (km/hr)	102	Average Wind direction (Deg)	298
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1137	12.9	48.69	14.68	< 6.0	< 9.0	0.56	161.6	0.05	< 1.0
2	06.06.2024	GA/24/1166	11.2	46.71	12.02	< 6.0	< 9.0	0.62	150.2	0.06	< 1.0
3	10.06.2024	GA/24/1205	13.9	45.07	13.89	< 6.0	< 9.0	0.58	138.3	0.05	< 1.0
4	13.06.2024	GA/24/1235	11.6	43.06	11.64	< 6.0	< 9.0	0.49	129.6	0.03	< 1.0
5	17.06.2024	GA/24/1252	10.6	41.03	10.60	< 6.0	< 9.0	0.35	139.5	0.08	< 1.0
6	20.06.2024	GA/24/1271	12.2	45.06	9.86	< 6.0	< 9.0	0.70	156.6	0.06	< 1.0
7	24.06.2024	GA/24/1284	10.9	44.88	9.94	< 6.0	< 9.0	0.54	135.4	0.08	< 1.0
8	27.06.2024	GA/24/1296	9.5	43.95	9.02	< 6.0	< 9.0	0.34	123.1	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2008	IS 5182 (Part XXIV) 2006	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.

*Kailas*

AUTHORISED SIGNATORY  
[KAILAS V. CHITALKAR]



*K. B. G. Patil*  
CHECKED BY



**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

Ambient Instrument No. 7	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 60-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	15/02/2024	14/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	01/07/2024		
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	June 2024		
<b>AMBIENT AIR LOCATION</b>			
Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	75
Average Wind Speed (km/hr)	101.5	Average Wind direction (Deg)	298
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	03.06.2024	GA/24/1135	8.9	42.99	10.10	< 6.0	< 9.0	0.49	167.2	0.05	< 1.0
2	06.06.2024	GA/24/1164	7.8	40.39	9.90	< 6.0	< 9.0	0.60	143.6	0.04	< 1.0
3	10.06.2024	GA/24/1203	8.9	42.25	10.40	< 6.0	< 9.0	0.56	146.1	0.05	< 1.0
4	13.06.2024	GA/24/1233	7.6	38.90	9.02	< 6.0	< 9.0	0.67	141.9	0.02	< 1.0
5	17.06.2024	GA/24/1250	8.7	40.00	8.36	< 6.0	< 9.0	0.28	133.2	0.08	< 1.0
6	20.06.2024	GA/24/1269	10.5	42.66	10.02	< 6.0	< 9.0	0.47	129.3	0.07	< 1.0
7	24.06.2024	GA/24/1282	8.9	42.43	9.02	< 6.0	< 9.0	0.48	137.4	0.06	< 1.0
8	27.06.2024	GA/24/1294	8.0	41.97	8.69	< 6.0	< 9.0	0.47	129.8	0.06	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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**

**Note :**

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  - Samples will be preserved for a period 15 days from the delivery of Test Report.
  - Test Results relate only to the conditions prevailing at the time of sampling.
  - Customer complaint register is available at laboratory.
  - Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.
- For **GADARK LAB PVT. LTD.**

*Kailas V. Chitalkar*

**AUTHORISED SIGNATORY**  
**[KAILAS V. CHITALKAR]**



*K. B. Bagayath*  
**CHECKED BY**

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 940-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 477-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 470-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025





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

## TEST REPORT

NOISE LEVEL MONITORING REPORT							
Date of Issue	29/06/2024						
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)
						Leq	Leq
1	18.06.2024	GA/24/1263	G-N1	I	Mopa Boundary	72.1	64.6
2	18.06.2024	GA/24/1264	G-N2	I	Shemecheadvan	64.9	51.7
3	11.06.2024	GA/24/1216	G-N3	C	Nagzar	61.2	51.2
4	11.06.2024	GA/24/1215	G-N4	R	Purva Casarvarnem	51.4	41.8
5	12.06.2024	GA/24/1227	G-N5	R	Chandel	47.7	40.5
6	25.06.2024	GA/24/1289	G-N6	R	Khajine Amere Porscodem	50.0	41.5
7	12.06.2024	GA/24/1228	G-N7	R	Warkhand	53.2	42.9
8	21.06.2024	GA/24/1275	G-N8	C	Rajvil Wada Torxem	50.2	48.7
9	25.06.2024	GA/24/1288	G-N9	C	Village Panchayat Tamboxem - Mopa - Ugvem	54.0	46.9
10	21.06.2024	GA/24/1274	M-N1	R	Satarda	51.5	41.4
11	07.06.2024	GA/24/1175	M-N2	R	Dingane	52.6	41.2
12	07.06.2024	GA/24/1176	M-N3	R	Netarde	50.3	44.6
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.						
<b>Note :</b>							
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3. Test Results relate only to the conditions prevailing at the time of sampling.							
4. Customer complaint register is available at laboratory.							
5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.							
For <b>GADARK LAB PVT. LTD.</b>							
							
<b>AUTHORISED SIGNATORY</b> [SACHIN B. GAONKAR]				<b>CHECKED BY</b>			

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 554067	16/05/2024	15/05/2025

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 546176	20/06/2024	19/06/2025



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## TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/24/1124	Report Date	24/06/2024	
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 18/06/2024	Environmental Condition of Lab	Temp °C	Humidity %
			30.04	76
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Outlet (A.C.F.)			
Sampling Details	STP Outlet (A.C.F.) Water Sample	Date of Collection	18/06/2024	
Sample Collected by	GLPL Representative	Sample Received On	19/06/2024	
Analysis Started On	19/06/2024	Analysis Completed On	24/06/2024	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.25 lit	

### Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.45	-	5.5 - 9.0	APHA 4500 H'
2	Chemical Oxygen Demand (COD)	32	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	10.00	IS 3025 (Part 44)
4	Total Suspended Solids (TSS)	3	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.59	mg/lit	5.00	APHA 4500 NH <sub>3</sub> B&C
7	Total Nitrogen (as N)	7.95	mg/lit	10.00	APHA 4500-Norg
8	Phosphorous	6.84	mg/lit	---	APHA 4500 P D

### Microbiological Parameters:

9	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.

AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]



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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/2306110	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2306129	30/06/2023	29/06/2024
04.	BOD Incubator	GL/EQ/I/02	AVI/2306122	30/06/2023	29/06/2024
05.	Microbiological Incubator (35 ° C)	GL/EQ/I/03	AVI/2306127	30/06/2023	29/06/2024
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I/01	AVI/2306126	30/06/2023	29/06/2024
07.	Laminar Air Flow	GL/EQ/LAF/01	TECH/VAL/ 2024/02/107	15/02/2024	14/02/2025
08.	Autoclave	GL/EQ/A/01	AVI/2306111	29/06/2023	28/06/2024



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/08/2024		
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	June 2024		
<b>AMBIENT AIR LOCATION</b>			
Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	81
Average Wind Speed (km/hr)	199	Average Wind direction (Deg)	322
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1316	24.6	52.13	14.80	< 6.0	< 9.0	0.57	136.4	0.06	< 1.0
2	04.07.2024	GA/24/1336	22.6	50.22	12.48	< 6.0	< 9.0	0.92	159.6	0.06	< 1.0
3	08.07.2024	GA/24/1347	21.8	49.86	11.85	< 6.0	< 9.0	0.28	141.0	0.07	< 1.0
4	11.07.2024	GA/24/1371	22.9	51.06	13.10	< 6.0	< 9.0	0.75	162.7	0.07	< 1.0
5	15.07.2024	GA/24/1386	19.9	48.34	11.98	< 6.0	< 9.0	0.57	136.1	0.06	< 1.0
6	18.07.2024	GA/24/1397	19.2	48.13	11.27	< 6.0	< 9.0	0.74	177.7	0.04	< 1.0
7	22.07.2024	GA/24/1419	20.4	50.75	12.56	< 6.0	< 9.0	0.63	150.0	0.05	< 1.0
8	25.07.2024	GA/24/1432	19.9	50.05	12.02	< 6.0	< 9.0	0.61	163.6	0.05	< 1.0
9	29.07.2024	GA/24/1448	18.4	47.83	10.35	< 6.0	< 9.0	0.59	139.1	0.08	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]

  
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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	08/01/2024	07/01/2025
Respirable Dust Sampler Sr. No. 1544-DTJ-2019	08/10/2023	07/10/2024
Gaseoue Sampler Sr. No. 210-B-2022	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/08/2024		
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	June 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	30	Average Humidity (%)	86
Average Wind Speed (km/hr)	158	Average Wind direction (Deg)	323
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1315	13.0	50.03	11.39	< 6.0	< 9.0	0.50	139.3	0.07	< 1.0
2	04.07.2024	GA/24/1335	12.0	48.04	10.73	< 6.0	< 9.0	0.74	154.7	0.06	< 1.0
3	08.07.2024	GA/24/1346	11.7	47.22	10.48	< 6.0	< 9.0	0.37	136.6	0.07	< 1.0
4	11.07.2024	GA/24/1370	13.0	48.98	12.02	< 6.0	< 9.0	0.78	168.2	0.05	< 1.0
5	15.07.2024	GA/24/1385	11.7	45.41	11.19	< 6.0	< 9.0	0.78	137.4	0.06	< 1.0
6	18.07.2024	GA/24/1396	11.0	45.04	10.98	< 6.0	< 9.0	0.46	129.0	0.06	< 1.0
7	22.07.2024	GA/24/1418	12.0	47.01	11.85	< 6.0	< 9.0	0.59	133.2	0.06	< 1.0
8	25.07.2024	GA/24/1431	11.7	46.63	11.23	< 6.0	< 9.0	0.56	143.4	0.05	< 1.0
9	29.07.2024	GA/24/1447	10.3	45.04	10.27	< 6.0	< 9.0	0.70	160.1	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 16

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]

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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	07/10/2023	06/10/2024
Respirable Dust Sampler Sr. No. 475-A-23	09/01/2024	08/01/2025
Gaseous Sampler Sr. No. 471-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/08/2024		
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	June 2024		

### AMBIENT AIR LOCATION


Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	79
Average Wind Speed (km/hr)	160	Average Wind direction (Deg)	344
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1308	27.0	53.45	13.39	< 6.0	< 9.0	0.38	147.2	0.06	< 1.0
2	04.07.2024	GA/24/1328	25.4	51.13	14.18	< 6.0	< 9.0	0.70	141.2	0.04	< 1.0
3	08.07.2024	GA/24/1339	24.0	50.33	13.10	< 6.0	< 9.0	0.57	135.0	0.04	< 1.0
4	11.07.2024	GA/24/1363	24.7	51.99	14.93	< 6.0	< 9.0	0.65	137.8	0.08	< 1.0
5	15.07.2024	GA/24/1378	20.9	49.25	12.39	< 6.0	< 9.0	0.74	142.2	0.06	< 1.0
6	18.07.2024	GA/24/1389	20.6	49.04	11.00	< 6.0	< 9.0	0.30	124.4	0.08	< 1.0
7	22.07.2024	GA/24/1411	21.8	51.05	13.02	< 6.0	< 9.0	0.46	138.0	0.07	< 1.0
8	25.07.2024	GA/24/1424	20.8	50.81	12.81	< 6.0	< 9.0	0.73	179.4	0.03	< 1.0
9	29.07.2024	GA/24/1440	20.9	48.18	11.10	< 6.0	< 9.0	0.71	166.3	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
 [SACHIN B. GAONKAR]



  
 CHECKED BY

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 934-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2832-DTB-2020	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6888-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/08/2024		
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	June2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	29.5	Average Humidity (%)	87
Average Wind Speed (km/hr)	185	Average Wind direction (Deg)	278.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1309	22.4	50.48	11.85	< 6.0	< 9.0	0.61	143.6	0.05	< 1.0
2	04.07.2024	GA/24/1329	20.8	48.50	11.77	< 6.0	< 9.0	0.73	161.0	0.06	< 1.0
3	08.07.2024	GA/24/1340	18.7	47.05	10.60	< 6.0	< 9.0	0.65	158.3	0.06	< 1.0
4	11.07.2024	GA/24/1364	19.9	49.01	12.02	< 6.0	< 9.0	0.73	144.4	0.06	< 1.0
5	15.07.2024	GA/24/1379	17.8	47.38	10.69	< 6.0	< 9.0	0.43	128.7	0.05	< 1.0
6	18.07.2024	GA/24/1390	17.0	46.95	10.02	< 6.0	< 9.0	0.47	137.7	0.05	< 1.0
7	22.07.2024	GA/24/1412	18.6	47.99	11.02	< 6.0	< 9.0	0.63	178.7	0.06	< 1.0
8	25.07.2024	GA/24/1425	17.4	47.05	10.89	< 6.0	< 9.0	0.44	136.2	0.04	< 1.0
9	29.07.2024	GA/24/1441	17.4	45.52	9.65	< 6.0	< 9.0	0.98	177.3	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 936-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2842-DTB-2020	16/02/2024	15/02/2025
Gaseoue Sampler Sr. No. 6896-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/08/2024		
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	June 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	30	Average Humidity (%)	80
Average Wind Speed (km/hr)	148	Average Wind direction (Deg)	338
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1310	7.0	40.39	9.19	< 6.0	< 9.0	0.65	157.6	0.05	< 1.0
2	04.07.2024	GA/24/1330	8.1	42.06	8.03	< 6.0	< 9.0	0.63	141.7	0.06	< 1.0
3	08.07.2024	GA/24/1341	7.0	40.95	7.69	< 6.0	< 9.0	0.61	167.8	0.06	< 1.0
4	11.07.2024	GA/24/1365	8.1	41.90	8.94	< 6.0	< 9.0	0.66	149.2	0.09	< 1.0
5	15.07.2024	GA/24/1380	9.9	40.53	9.40	< 6.0	< 9.0	0.65	150.1	0.02	< 1.0
6	18.07.2024	GA/24/1391	9.0	41.01	9.02	< 6.0	< 9.0	0.54	143.4	0.04	< 1.0
7	22.07.2024	GA/24/1413	9.8	43.00	10.27	< 6.0	< 9.0	0.38	126.6	0.05	< 1.0
8	25.07.2024	GA/24/1426	9.0	42.75	9.94	< 6.0	< 9.0	0.99	186.5	0.05	< 1.0
9	29.07.2024	GA/24/1442	7.8	40.04	8.19	< 6.0	< 9.0	0.90	172.0	0.07	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



  
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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. 942-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 670-E-23	18/10/2023	17/10/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/08/2024		
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	June 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	30	Average Humidity (%)	83
Average Wind Speed (km/hr)	158.5	Average Wind direction (Deg)	318
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1313	14.1	43.11	10.65	< 6.0	< 9.0	0.80	157.2	0.05	< 1.0
2	04.07.2024	GA/24/1333	12.6	41.86	9.23	< 6.0	< 9.0	0.58	152.9	0.03	< 1.0
3	08.07.2024	GA/24/1344	12.0	42.05	10.02	< 6.0	< 9.0	0.50	156.8	0.04	< 1.0
4	11.07.2024	GA/24/1368	12.9	44.88	11.19	< 6.0	< 9.0	0.68	150.5	0.08	< 1.0
5	15.07.2024	GA/24/1383	11.6	42.03	10.06	< 6.0	< 9.0	0.69	169.1	0.04	< 1.0
6	18.07.2024	GA/24/1394	10.9	41.99	9.73	< 6.0	< 9.0	0.73	156.9	0.06	< 1.0
7	22.07.2024	GA/24/1416	11.7	44.00	10.89	< 6.0	< 9.0	0.62	188.6	0.04	< 1.0
8	25.07.2024	GA/24/1429	10.9	43.56	10.27	< 6.0	< 9.0	0.81	158.8	0.04	< 1.0
9	29.07.2024	GA/24/1445	9.9	40.51	8.90	< 6.0	< 9.0	0.56	131.4	0.02	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 56-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1329-R-273-DTC-2015	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6773-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/08/2024		
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	June 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	77
Average Wind Speed (km/hr)	132	Average Wind direction (Deg)	312.6
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1311	13.3	43.53	10.19	< 6.0	< 9.0	0.70	144.5	0.07	< 1.0
2	04.07.2024	GA/24/1331	12.5	41.89	9.27	< 6.0	< 9.0	0.95	175.3	0.06	< 1.0
3	08.07.2024	GA/24/1342	10.6	41.04	8.94	< 6.0	< 9.0	0.64	159.4	0.04	< 1.0
4	11.07.2024	GA/24/1366	11.7	42.95	10.06	< 6.0	< 9.0	0.74	153.4	0.06	< 1.0
5	15.07.2024	GA/24/1381	10.3	42.24	8.23	< 6.0	< 9.0	0.60	130.6	0.06	< 1.0
6	18.07.2024	GA/24/1392	9.8	41.94	8.03	< 6.0	< 9.0	0.69	160.3	0.04	< 1.0
7	22.07.2024	GA/24/1414	10.6	43.77	10.44	< 6.0	< 9.0	0.73	157.8	0.04	< 1.0
8	25.07.2024	GA/24/1427	10.0	43.09	9.98	< 6.0	< 9.0	0.54	122.6	0.07	< 1.0
	29.07.2024	GA/24/1443	8.4	41.49	8.36	< 6.0	< 9.0	0.82	151.5	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 1344-G-23	17/10/2023	17/10/2024
Respirable Dust Sampler Sr. No. 194-E-22	17/05/2024	16/05/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	03/08/2024		
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	June 2024		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	29.5	Average Humidity (%)	86
Average Wind Speed (km/hr)	118	Average Wind direction (Deg)	302
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1314	8.0	40.39	10.02	< 6.0	< 9.0	0.51	120.8	0.07	< 1.0
2	04.07.2024	GA/24/1334	7.1	38.49	8.82	< 6.0	< 9.0	0.77	157.4	0.06	< 1.0
3	08.07.2024	GA/24/1345	6.9	37.60	8.86	< 6.0	< 9.0	0.82	146.4	0.07	< 1.0
4	11.07.2024	GA/24/1369	7.8	39.01	9.40	< 6.0	< 9.0	0.80	167.9	0.07	< 1.0
5	15.07.2024	GA/24/1384	6.7	37.14	8.65	< 6.0	< 9.0	0.36	146.5	0.05	< 1.0
6	18.07.2024	GA/24/1395	6.2	36.90	8.11	< 6.0	< 9.0	0.60	141.3	0.06	< 1.0
7	22.07.2024	GA/24/1417	7.8	38.74	9.73	< 6.0	< 9.0	0.34	135.4	0.06	< 1.0
8	25.07.2024	GA/24/1430	7.1	38.14	9.15	< 6.0	< 9.0	0.86	173.4	0.05	< 1.0
9	29.07.2024	GA/24/1446	6.2	37.04	7.73	< 6.0	< 9.0	0.64	186.9	0.08	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 60-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	15/02/2024	14/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

### TEST REPORT

AMBIENT AIR QUALITY MONITORING REPORT			
Report Date	03/08/2024		
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	June 2024		
AMBIENT AIR LOCATION			
Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	30	Average Humidity (%)	88
Average Wind Speed (km/hr)	122.5	Average Wind direction (Deg)	301
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.07.2024	GA/24/1312	6.4	38.16	8.11	< 6.0	< 9.0	0.67	170.5	0.06	< 1.0
2	04.07.2024	GA/24/1332	7.8	36.64	9.77	< 6.0	< 9.0	0.70	140.5	0.06	< 1.0
3	08.07.2024	GA/24/1343	5.9	35.00	7.03	< 6.0	< 9.0	0.60	160.1	0.06	< 1.0
4	11.07.2024	GA/24/1367	7.0	37.23	8.07	< 6.0	< 9.0	0.62	145.6	0.04	< 1.0
5	15.07.2024	GA/24/1382	6.5	37.24	8.23	< 6.0	< 9.0	0.53	125.2	0.08	< 1.0
6	18.07.2024	GA/24/1393	6.1	36.72	7.98	< 6.0	< 9.0	0.78	155.9	0.04	< 1.0
7	22.07.2024	GA/24/1415	7.0	37.95	8.77	< 6.0	< 9.0	0.68	140.9	0.06	< 1.0
8	25.07.2024	GA/24/1428	6.4	37.13	8.11	< 6.0	< 9.0	0.74	157.3	0.04	< 1.0
9	29.07.2024	GA/24/1444	5.2	35.66	7.40	< 6.0	< 9.0	0.69	173.5	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2005	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  
[SACHIN B. GAONKAR]



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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. 940-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 477-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 470-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025






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### TEST REPORT

NOISE LEVEL MONITORING REPORT									
Date of Issue		02/08/2024							
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)	
						Leq		Leq	
1	30.07.2024	GA/24/1452	G-N1	I	Mopa Boundary	67.7		55.5	
2	30.07.2024	GA/24/1451	G-N2	I	Shemecheadvan	58.2		50.0	
3	24.07.2024	GA/24/1423	G-N3	C	Nagzar	52.6		47.2	
4	24.07.2024	GA/24/1422	G-N4	R	Purva Casarvarnem	51.1		41.4	
5	31.07.2024	GA/24/1454	G-N5	R	Chandel	49.9		42.2	
6	16.07.2024	GA/24/1388	G-N6	R	Khajne Amere Porscodem	51.2		41.2	
7	31.07.2024	GA/24/1453	G-N7	R	Warkhand	51.7		41.1	
8	26.07.2024	GA/24/1434	G-N8	C	Rajvil Wada Torxem	58.4		49.0	
9	16.07.2024	GA/24/1387	G-N9	C	Village Panchayant Tamboxem – Mopa - Ugvern	51.1		41.3	
10	26.07.2024	GA/24/1433	M-N1	R	Satarda	51.2		41.9	
11	23.07.2024	GA/24/1420	M-N2	R	Dingane	50.9		41.7	
12	23.07.2024	GA/24/1421	M-N3	R	Netarde	50.3		40.2	
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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5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.									
For <b>GADARK LAB PVT. LTD.</b>									
 <b>AUTHORISED SIGNATORY</b> <b>[SACHIN B. GAONKAR]</b>					 <b>CHECKED BY</b>				

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 554067	16/05/2024	15/05/2025

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 546176	20/06/2024	19/06/2025



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## TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/24/1336	Report Date	22/07/2024	
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 17/07/2024	Environmental Condition of Lab	Temp °C	Humidity %
			27.5	77
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Outlet (A.C.F.)			
Sampling Details	STP Outlet (A.C.F.) Water Sample	Date of Collection	17/07/2024	
Sample Collected by	GLPL Representative	Sample Received On	18/07/2024	
Analysis Started On	18/07/2024	Analysis Completed On	22/07/2024	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.5 lit	

### Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	6.99	-	5.5 - 9.0	APHA 4500 H <sup>+</sup>
2	Chemical Oxygen Demand (COD)	44	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	7	mg/lit	10.00	IS 3025 (Part 44)
4	Total Suspended Solids (TSS)	4	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.26	mg/lit	5.00	APHA 4500 NH <sub>3</sub> B&C
7	Total Nitrogen (as N)	6.61	mg/lit	10.00	APHA 4500-Norg

### Microbiological Parameters:

9	Fecal Coliform at 44.5°C for 24 hrs.	27	MPN Index/100ml	100	APHA 9221 E
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End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]



*Kobagayetta*  
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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/02	-	In house Calibration	
02.	pH Meter	GL/EQ/pH/03	-	In house Calibration	
03.	Hot Air Oven	GL/EQ/O/01	AVI 2406053	28/06/2024	27/06/2025
04.	COD Digester	GL/EQ/COD/01	AVI 2406054	28/06/2024	27/06/2025
05.	COD Digester	GL/EQ/COD/02	AVI 2406055	28/06/2024	27/06/2025
06.	BOD Incubator	GL/EQ/I/02	AVI 2406052	28/06/2024	27/06/2025
07.	Microbiological Incubator (35 ° C)	GL/EQ/I/03	AVI 2406080	29/06/2024	28/06/2025
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/I/01	AVI 2406081	29/06/2024	28/06/2025
09.	Laminar Air Flow	GL/EQ/LAF/01	TECH/VAL/ 2024/02/107	15/02/2024	14/02/2025
10.	Autoclave	GL/EQ/A/01	AVI 2406070	29/06/2024	28/06/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	78
Average Wind Speed (km/hr)	210	Average Wind direction (Deg)	320
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1463	17.7	47.10	9.94	< 6.0	< 9.0	0.38	135.7	0.06	< 1.0
2	05.08.2024	GA/24/1503	15.9	45.61	8.94	< 6.0	< 9.0	0.49	143.4	0.07	< 1.0
3	08.08.2024	GA/24/1555	18.0	49.69	10.27	< 6.0	< 9.0	0.68	172.8	0.06	< 1.0
4	12.08.2024	GA/24/1582	20.8	52.24	13.39	< 6.0	< 9.0	0.80	144.5	0.04	< 1.0
5	15.08.2024	GA/24/1609	22.9	54.62	16.76	< 6.0	< 9.0	0.62	152.2	0.04	< 1.0
6	19.08.2024	GA/24/1638	24.2	56.01	18.38	< 6.0	< 9.0	0.48	147.2	0.06	< 1.0
7	22.08.2024	GA/24/1684	23.8	55.84	17.05	< 6.0	< 9.0	0.69	153.6	0.07	< 1.0
8	26.08.2024	GA/24/1720	20.5	53.38	15.76	< 6.0	< 9.0	0.46	149.5	0.01	< 1.0
9	29.08.2024	GA/24/1731	22.0	54.86	17.34	< 6.0	< 9.0	0.25	149.2	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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	08/01/2024	07/01/2025
Respirable Dust Sampler Sr. No. 1544-DTJ-2019	08/10/2023	07/10/2024
Gaseoue Sampler Sr. No. 210-B-2022	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	81
Average Wind Speed (km/hr)	160	Average Wind direction (Deg)	316
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1462	9.7	44.74	9.90	< 6.0	< 9.0	0.46	130.0	0.06	< 1.0
2	05.08.2024	GA/24/1502	8.4	43.68	8.52	< 6.0	< 9.0	0.55	124.7	0.06	< 1.0
3	08.08.2024	GA/24/1554	10.3	46.01	10.98	< 6.0	< 9.0	0.62	145.7	0.02	< 1.0
4	12.08.2024	GA/24/1581	12.6	49.24	13.72	< 6.0	< 9.0	0.45	141.6	0.04	< 1.0
5	15.08.2024	GA/24/1608	14.5	51.30	15.43	< 6.0	< 9.0	0.63	156.1	0.03	< 1.0
6	19.08.2024	GA/24/1637	16.1	52.93	17.01	< 6.0	< 9.0	0.50	142.5	0.05	< 1.0
7	22.08.2024	GA/24/1683	15.3	51.22	15.97	< 6.0	< 9.0	0.43	146.9	0.07	< 1.0
8	26.08.2024	GA/24/1719	13.1	48.37	14.18	< 6.0	< 9.0	0.68	165.1	0.04	< 1.0
9	29.08.2024	GA/24/1730	14.4	50.01	15.30	< 6.0	< 9.0	0.47	150.3	0.04	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



  
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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	07/10/2023	06/10/2024
Respirable Dust Sampler Sr. No. 475-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 471-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	82
Average Wind Speed (km/hr)	165	Average Wind direction (Deg)	370
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1455	20.3	47.96	10.98	< 6.0	< 9.0	0.72	168.6	0.05	< 1.0
2	05.08.2024	GA/24/1495	17.7	47.27	10.19	< 6.0	< 9.0	0.57	173.6	0.04	< 1.0
3	08.08.2024	GA/24/1547	19.2	50.91	12.97	< 6.0	< 9.0	0.63	166.2	0.05	< 1.0
4	12.08.2024	GA/24/1574	23.1	53.38	15.05	< 6.0	< 9.0	0.76	159.4	0.07	< 1.0
5	15.08.2024	GA/24/1601	25.5	55.43	17.63	< 6.0	< 9.0	0.36	141.3	0.03	< 1.0
6	19.08.2024	GA/24/1630	27.4	57.07	20.00	< 6.0	< 9.0	0.71	143.2	0.04	< 1.0
7	22.08.2024	GA/24/1676	26.2	56.71	19.05	< 6.0	< 9.0	0.89	151.4	0.05	< 1.0
8	26.08.2024	GA/24/1712	23.5	54.52	17.42	< 6.0	< 9.0	0.62	155.5	0.04	< 1.0
9	29.08.2024	GA/24/1723	24.9	55.78	19.17	< 6.0	< 9.0	0.52	165.1	0.01	< 1.0
<b>NAAQS LIMITS *</b>			--	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>2</b>	--	<b>1</b>	--
<b>UNITS</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>µg/m<sup>3</sup></b>	<b>ppm</b>
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2008	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**  
**[SACHIN B. GAONKAR]**



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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. 934-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2832-DTB-2020	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6888-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	80
Average Wind Speed (km/hr)	190	Average Wind direction (Deg)	260.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1456	16.6	44.90	9.23	< 6.0	< 9.0	0.65	186.6	0.05	< 1.0
2	05.08.2024	GA/24/1496	14.9	44.24	8.94	< 6.0	< 9.0	0.55	160.7	0.05	< 1.0
3	08.08.2024	GA/24/1548	16.0	47.00	9.98	< 6.0	< 9.0	0.53	149.6	0.08	< 1.0
4	12.08.2024	GA/24/1575	18.4	50.37	11.14	< 6.0	< 9.0	0.61	131.2	0.07	< 1.0
5	15.08.2024	GA/24/1602	20.8	52.52	13.89	< 6.0	< 9.0	0.27	166.3	0.06	< 1.0
6	19.08.2024	GA/24/1631	21.7	54.00	15.05	< 6.0	< 9.0	0.72	142.9	0.04	< 1.0
7	22.08.2024	GA/24/1677	20.9	53.05	14.14	< 6.0	< 9.0	0.78	141.9	0.04	< 1.0
8	26.08.2024	GA/24/1713	17.4	50.04	12.68	< 6.0	< 9.0	0.74	163.3	0.05	< 1.0
9	29.08.2024	GA/24/1724	18.7	51.00	14.43	< 6.0	< 9.0	0.60	162.4	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 936-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2842-DTB-2020	16/02/2024	15/02/2025
Gaseous Sampler Sr. No. 6896-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	30	Average Humidity (%)	76
Average Wind Speed (km/hr)	132	Average Wind direction (Deg)	328.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1457	7.0	39.88	7.98	< 6.0	< 9.0	0.60	173.9	0.05	< 1.0
2	05.08.2024	GA/24/1497	6.4	38.73	6.82	< 6.0	< 9.0	0.66	154.8	0.07	< 1.0
3	08.08.2024	GA/24/1549	8.4	40.78	7.98	< 6.0	< 9.0	0.52	173.2	0.05	< 1.0
4	12.08.2024	GA/24/1576	10.5	43.55	9.65	< 6.0	< 9.0	0.89	167.1	0.03	< 1.0
5	15.08.2024	GA/24/1603	12.3	45.66	12.52	< 6.0	< 9.0	0.67	179.4	0.05	< 1.0
6	19.08.2024	GA/24/1632	13.3	47.51	13.93	< 6.0	< 9.0	0.58	152.0	0.05	< 1.0
7	22.08.2024	GA/24/1678	11.4	46.10	12.52	< 6.0	< 9.0	0.60	138.1	0.05	< 1.0
8	26.08.2024	GA/24/1714	10.8	44.79	10.85	< 6.0	< 9.0	0.69	165.3	0.04	< 1.0
9	29.08.2024	GA/24/1725	11.8	45.97	11.93	< 6.0	< 9.0	0.57	158.0	0.07	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 942-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 670-E-23	18/10/2023	17/10/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	79
Average Wind Speed (km/hr)	162.5	Average Wind direction (Deg)	301
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1460	9.1	40.15	8.32	< 6.0	< 9.0	0.50	160.4	0.04	< 1.0
2	05.08.2024	GA/24/1500	8.0	38.93	7.11	< 6.0	< 9.0	0.80	162.8	0.07	< 1.0
3	08.08.2024	GA/24/1552	10.2	41.10	9.23	< 6.0	< 9.0	0.64	153.2	0.05	< 1.0
4	12.08.2024	GA/24/1579	12.4	44.71	11.56	< 6.0	< 9.0	0.39	130.0	0.05	< 1.0
5	15.08.2024	GA/24/1606	13.6	46.90	13.27	< 6.0	< 9.0	0.48	169.3	0.04	< 1.0
6	19.08.2024	GA/24/1635	14.8	48.05	15.22	< 6.0	< 9.0	0.85	166.0	0.04	< 1.0
7	22.08.2024	GA/24/1681	13.3	47.78	14.51	< 6.0	< 9.0	0.73	172.9	0.04	< 1.0
8	26.08.2024	GA/24/1717	12.6	45.28	13.35	< 6.0	< 9.0	0.84	173.4	0.01	< 1.0
9	29.08.2024	GA/24/1728	13.9	46.98	14.76	< 6.0	< 9.0	0.38	156.0	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 56-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1329-R-273-DTC-2015	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6773-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	31.5	Average Humidity (%)	83
Average Wind Speed (km/hr)	122	Average Wind direction (Deg)	310.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1458	7.9	41.02	8.03	< 6.0	< 9.0	0.63	169.6	0.06	< 1.0
2	05.08.2024	GA/24/1498	6.9	40.39	7.61	< 6.0	< 9.0	0.72	162.5	0.05	< 1.0
3	08.08.2024	GA/24/1550	9.1	42.97	9.94	< 6.0	< 9.0	0.61	132.0	0.08	< 1.0
4	12.08.2024	GA/24/1577	11.6	44.26	11.73	< 6.0	< 9.0	0.66	137.4	0.07	< 1.0
5	15.08.2024	GA/24/1604	13.0	46.33	12.77	< 6.0	< 9.0	0.53	182.7	0.05	< 1.0
6	19.08.2024	GA/24/1633	13.9	47.98	14.01	< 6.0	< 9.0	0.61	155.0	0.05	< 1.0
7	22.08.2024	GA/24/1679	12.4	47.02	13.27	< 6.0	< 9.0	0.61	164.6	0.05	< 1.0
8	26.08.2024	GA/24/1715	11.8	45.43	12.10	< 6.0	< 9.0	0.81	177.0	0.03	< 1.0
9	29.08.2024	GA/24/1726	12.8	46.11	14.26	< 6.0	< 9.0	0.69	160.4	0.03	< 1.0
<b>NAAQS LIMITS *</b>			--	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>2</b>	--	<b>1</b>	--
<b>UNITS</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>µg/m<sup>3</sup></b>	<b>ppm</b>
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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**  
**[SACHIN B. GAONKAR]**



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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. 1344-G-23	17/10/2023	17/10/2024
Respirable Dust Sampler Sr. No. 194-E-22	17/05/2024	16/05/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	76
Average Wind Speed (km/hr)	112	Average Wind direction (Deg)	296
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1461	5.9	36.86	7.19	< 6.0	< 9.0	0.54	148.4	0.05	< 1.0
2	05.08.2024	GA/24/1501	4.8	35.08	6.53	< 6.0	< 9.0	0.59	155.9	0.08	< 1.0
3	08.08.2024	GA/24/1553	7.0	38.69	8.32	< 6.0	< 9.0	0.77	157.1	0.06	< 1.0
4	12.08.2024	GA/24/1580	9.7	41.67	10.89	< 6.0	< 9.0	0.42	139.6	0.05	< 1.0
5	15.08.2024	GA/24/1607	11.0	43.48	12.56	< 6.0	< 9.0	0.58	155.5	0.05	< 1.0
6	19.08.2024	GA/24/1636	12.9	45.88	14.01	< 6.0	< 9.0	0.79	156.0	0.04	< 1.0
7	22.08.2024	GA/24/1682	12.0	44.97	13.31	< 6.0	< 9.0	0.57	169.1	0.06	< 1.0
8	26.08.2024	GA/24/1718	10.2	42.68	11.02	< 6.0	< 9.0	0.81	168.9	0.04	< 1.0
9	29.08.2024	GA/24/1729	11.4	43.72	12.06	< 6.0	< 9.0	0.96	153.1	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 60-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	15/02/2024	14/02/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	03/09/2024		
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	August 2024		
<b>AMBIENT AIR LOCATION</b>			
Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	29.5	Average Humidity (%)	74
Average Wind Speed (km/hr)	118.5	Average Wind direction (Deg)	299
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	01.08.2024	GA/24/1459	5.0	35.06	7.19	< 6.0	< 9.0	0.72	174.3	0.07	< 1.0
2	05.08.2024	GA/24/1499	4.5	32.34	6.78	< 6.0	< 9.0	0.75	159.7	0.03	< 1.0
3	08.08.2024	GA/24/1551	6.9	35.10	8.03	< 6.0	< 9.0	0.51	126.7	0.07	< 1.0
4	12.08.2024	GA/24/1578	9.7	38.76	10.23	< 6.0	< 9.0	0.60	143.0	0.04	< 1.0
5	15.08.2024	GA/24/1605	10.4	40.61	11.27	< 6.0	< 9.0	0.59	178.6	0.06	< 1.0
6	19.08.2024	GA/24/1634	11.4	42.02	12.02	< 6.0	< 9.0	0.64	169.1	0.02	< 1.0
7	22.08.2024	GA/24/1680	10.6	41.21	11.19	< 6.0	< 9.0	0.52	129.2	0.03	< 1.0
8	26.08.2024	GA/24/1716	9.5	40.39	10.19	< 6.0	< 9.0	0.77	171.2	0.02	< 1.0
9	29.08.2024	GA/24/1727	10.4	41.44	11.56	< 6.0	< 9.0	0.34	140.5	0.03	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]**



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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. 940-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 477-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 470-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. Equiptronics EQ 826	16/09/2023	15/09/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025






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

## TEST REPORT

NOISE LEVEL MONITORING REPORT							
Date of Issue	03/09/2024						
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 <sub>eq</sub>	L <sub>eq</sub>
1	21.08.2024	GA/24/1666	G-N1	I	Mopa Boundary	67.2	59.0
2	21.08.2024	GA/24/1667	G-N2	I	Shemecheadvan	58.9	52.2
3	16.08.2024	GA/24/1611	G-N3	C	Nagzar	57.6	49.8
4	16.08.2024	GA/24/1610	G-N4	R	Purva Casarvarnem	53.8	43.3
5	30.08.2024	GA/24/1732	G-N5	R	Chandel	51.0	41.7
6	20.08.2024	GA/24/1665	G-N6	R	Khajne Amere Porscodem	49.4	41.2
7	30.08.2024	GA/24/1733	G-N7	R	Warkhand	52.0	42.4
8	27.08.2024	GA/24/1722	G-N8	C	Rajvil Wada Torxem	53.4	45.2
9	20.08.2024	GA/24/1664	G-N9	C	Village Panchayat Tamboxem - Mopa - Ugvem	51.7	42.6
10	27.08.2024	GA/24/1721	M-N1	R	Satarda	49.3	42.4
11	23.08.2024	GA/24/1689	M-N2	R	Dingane	52.5	40.4
12	23.08.2024	GA/24/1690	M-N3	R	Netarde	51.1	43.9
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.						
<b>Note :</b>							
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For <b>GADARK LAB PVT. LTD.</b>							
							
<b>AUTHORISED SIGNATORY</b> [SACHIN B. GAONKAR]						<b>CHECKED BY</b>	



**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 554067	16/05/2024	15/05/2025

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 546176	20/06/2024	19/06/2025



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## TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/24/01908	Report Date	23/08/2024	
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 17/08/2024	Environmental Condition of Lab	Temp °C	Humidity %
			27.6	75
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Outlet (A.C.F.)			
Sampling Details	STP Outlet (A.C.F.) Water Sample	Date of Collection	17/08/2024	
Sample Collected by	GLPL Representative	Sample Received On	19/08/2024	
Analysis Started On	19/08/2024	Analysis Completed On	23/08/2024	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.5 lit	

### Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.04	-	5.5 - 9.0	APHA 4500 H+
2	Chemical Oxygen Demand (COD)	48	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	10.00	IS 3025 (Part 44)
4	Total Suspended Solids (TSS)	6	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 <sub>3</sub> B&C
7	Total Nitrogen (as N)	6.05	mg/lit	10.00	APHA 4500-Norg

### Microbiological Parameters:

9	Fecal Coliform at 44.5°C for 24 hrs.	33	MPN Index/100ml	100	APHA 9221 E
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End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]

  
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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/02	-	In house Calibration	
02.	pH Meter	GL/EQ/pH/03	-	In house Calibration	
03.	Hot Air Oven	GL/EQ/O/01	AVI 2406053	28/06/2024	27/06/2025
04.	COD Digester	GL/EQ/COD/01	AVI 2406054	28/06/2024	27/06/2025
05.	COD Digester	GL/EQ/COD/02	AVI 2406055	28/06/2024	27/06/2025
06.	BOD Incubator	GL/EQ/I/02	AVI 2406052	28/06/2024	27/06/2025
07.	Microbiological Incubator (35 ° C)	GL/EQ/I/03	AVI 2406080	29/06/2024	28/06/2025
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/I/01	AVI 2406081	29/06/2024	28/06/2025
09.	Laminar Air Flow	GL/EQ/LAF/01	TECH/VAL/ 2024/02/107	15/02/2024	14/02/2025
10.	Autoclave	GL/EQ/A/01	AVI 2406070	29/06/2024	28/06/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2024		
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	September 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Mopa Boundry - Goa State (G-A1)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	81
Average Wind Speed (km/hr)	211	Average Wind direction (Deg)	322
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1747	21.8	52.88	16.67	< 6.0	< 9.0	0.61	130.8	0.04	< 1.0
2	05.09.2024	GA/24/1770	20.6	52.09	15.14	< 6.0	< 9.0	0.55	151.4	0.05	< 1.0
3	09.09.2024	GA/24/1781	22.0	54.58	18.01	< 6.0	< 9.0	0.78	183.2	0.02	< 1.0
4	12.09.2024	GA/24/1795	21.8	53.88	17.34	< 6.0	< 9.0	0.82	178.9	0.09	< 1.0
5	16.09.2024	GA/24/1815	23.2	55.65	19.34	< 6.0	< 9.0	0.92	164.1	0.03	< 1.0
6	19.09.2024	GA/24/1834	21.6	51.28	17.88	< 6.0	< 9.0	0.40	126.3	0.04	< 1.0
7	23.09.2024	GA/24/1847	18.2	47.50	15.39	< 6.0	< 9.0	0.79	145.6	0.05	< 1.0
8	26.09.2024	GA/24/1860	17.6	46.95	14.06	< 6.0	< 9.0	0.78	179.4	0.05	< 1.0
9	30.09.2024	GA/24/1875	18.4	48.28	16.05	< 6.0	< 9.0	0.79	180.0	0.06	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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	08/01/2024	07/01/2025
Respirable Dust Sampler Sr. No. 1544-DTJ-2019	08/10/2023	07/10/2024
Gaseoue Sampler Sr. No. 210-B-2022	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



# 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	04/10/2024		
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	September 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Shemecheadvan Goa State (G-A2)		
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	83
Average Wind Speed (km/hr)	180	Average Wind direction (Deg)	328
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1746	13.1	48.03	13.02	< 6.0	< 9.0	0.77	159.0	0.03	< 1.0
2	05.09.2024	GA/24/1769	12.4	47.82	11.98	< 6.0	< 9.0	0.51	147.8	0.05	< 1.0
3	09.09.2024	GA/24/1780	14.3	49.50	14.01	< 6.0	< 9.0	0.60	172.0	0.04	< 1.0
4	12.09.2024	GA/24/1794	13.5	48.94	13.31	< 6.0	< 9.0	0.72	173.0	0.09	< 1.0
5	16.09.2024	GA/24/1814	14.8	50.46	15.30	< 6.0	< 9.0	0.77	120.8	0.04	< 1.0
6	19.09.2024	GA/24/1833	13.9	48.75	13.68	< 6.0	< 9.0	0.46	140.9	0.02	< 1.0
7	23.09.2024	GA/24/1846	11.3	44.44	12.35	< 6.0	< 9.0	0.84	172.8	0.04	< 1.0
8	26.09.2024	GA/24/1859	10.7	43.02	11.39	< 6.0	< 9.0	0.70	180.9	0.04	< 1.0
9	30.09.2024	GA/24/1874	11.4	44.97	12.14	< 6.0	< 9.0	0.71	167.7	0.05	< 1.0
<b>NAAQS LIMITS *</b>			--	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>2</b>	--	<b>1</b>	--
<b>UNITS</b>			<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>µg/m<sup>3</sup></b>	<b>mg/m<sup>3</sup></b>	<b>ppm</b>	<b>µg/m<sup>3</sup></b>	<b>ppm</b>
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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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- 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**  
**[SACHIN B. GAONKAR]**



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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	07/10/2023	06/10/2024
Respirable Dust Sampler Sr. No. 475-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 471-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2024		
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	September 2024		
<b>AMBIENT AIR LOCATION</b>			
Location of Ambient Air Station	Nagzar – Goa State (G-A3)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	80
Average Wind Speed (km/hr)	168	Average Wind direction (Deg)	375
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1739	24.0	53.94	17.96	< 6.0	< 9.0	0.62	165.2	0.02	< 1.0
2	05.09.2024	GA/24/1762	23.1	53.02	17.05	< 6.0	< 9.0	0.60	163.0	0.06	< 1.0
3	09.09.2024	GA/24/1773	25.5	55.20	19.05	< 6.0	< 9.0	0.97	171.4	0.04	< 1.0
4	12.09.2024	GA/24/1787	24.7	54.72	18.71	< 6.0	< 9.0	0.59	146.5	0.03	< 1.0
5	16.09.2024	GA/24/1807	26.5	56.45	20.42	< 6.0	< 9.0	0.53	186.3	0.04	< 1.0
6	19.09.2024	GA/24/1826	25.0	52.01	19.09	< 6.0	< 9.0	0.83	161.8	0.01	< 1.0
7	23.09.2024	GA/24/1839	21.2	49.19	17.38	< 6.0	< 9.0	0.76	158.8	0.03	< 1.0
8	26.09.2024	GA/24/1852	19.9	48.79	16.43	< 6.0	< 9.0	0.54	170.2	0.06	< 1.0
9	30.09.2024	GA/24/1867	21.0	49.02	18.01	< 6.0	< 9.0	0.66	152.2	0.03	< 1.0
<b>NAAQS LIMITS *</b>			--	<b>100</b>	<b>60</b>	<b>80</b>	<b>80</b>	<b>2</b>	--	<b>1</b>	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXII) 2006	IS 5182 (Part XXIV) 2006	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**  
**[SACHIN B. GAONKAR]**



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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. 934-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2832-DTB-2020	15/02/2024	14/02/2025
Gaseoue Sampler Sr. No. 6888-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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### TEST REPORT

#### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2024		
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	September 2024		

#### AMBIENT AIR LOCATION

Location of Ambient Air Station	Purva Casarvarnem - Goa State (G-A4)		
Average Ambient Temperature (°C)	30.0	Average Humidity (%)	72
Average Wind Speed (km/hr)	202	Average Wind direction (Deg)	256
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1740	16.9	50.15	13.06	< 6.0	< 9.0	0.50	129.4	0.06	< 1.0
2	05.09.2024	GA/24/1763	15.9	48.88	12.77	< 6.0	< 9.0	0.53	160.4	0.04	< 1.0
3	09.09.2024	GA/24/1774	17.0	50.07	14.93	< 6.0	< 9.0	0.82	184.3	0.01	< 1.0
4	12.09.2024	GA/24/1788	16.6	49.74	13.27	< 6.0	< 9.0	0.55	149.1	0.06	< 1.0
5	16.09.2024	GA/24/1808	17.7	51.87	15.01	< 6.0	< 9.0	0.49	184.0	0.06	< 1.0
6	19.09.2024	GA/24/1827	15.9	49.88	13.93	< 6.0	< 9.0	0.45	133.6	0.03	< 1.0
7	23.09.2024	GA/24/1840	13.3	45.03	12.52	< 6.0	< 9.0	0.79	145.9	0.02	< 1.0
8	26.09.2024	GA/24/1853	12.4	44.49	11.06	< 6.0	< 9.0	0.62	166.2	0.08	< 1.0
	30.09.2024	GA/24/1868	13.3	45.97	12.85	< 6.0	< 9.0	0.56	149.0	0.04	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 936-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 2842-DTB-2020	16/02/2024	15/02/2025
Gaseoue Sampler Sr. No. 6896-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2024		
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	September 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Khajne Amere Porscodem - Goa State (G-A5)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	70
Average Wind Speed (km/hr)	162	Average Wind direction (Deg)	320.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1741	10.6	43.95	10.31	< 6.0	< 9.0	0.39	140.9	0.01	< 1.0
2	05.09.2024	GA/24/1764	9.7	42.53	9.61	< 6.0	< 9.0	0.53	151.3	0.05	< 1.0
3	09.09.2024	GA/24/1775	11.2	44.56	11.02	< 6.0	< 9.0	0.75	180.0	0.03	< 1.0
4	12.09.2024	GA/24/1789	10.5	44.05	10.69	< 6.0	< 9.0	0.63	161.0	0.07	< 1.0
5	16.09.2024	GA/24/1809	12.3	46.69	12.14	< 6.0	< 9.0	0.65	174.4	0.08	< 1.0
6	19.09.2024	GA/24/1828	11.5	44.99	11.02	< 6.0	< 9.0	0.49	145.2	0.05	< 1.0
7	23.09.2024	GA/24/1841	10.5	41.42	10.23	< 6.0	< 9.0	0.80	150.2	0.04	< 1.0
8	26.09.2024	GA/24/1854	9.8	40.54	9.77	< 6.0	< 9.0	0.75	177.3	0.05	< 1.0
9	30.09.2024	GA/24/1869	10.6	42.03	10.94	< 6.0	< 9.0	0.48	153.9	0.03	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 942-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 670-E-23	18/10/2023	17/10/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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

## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2024		
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	September 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Rajvil Wada Torxem - Goa State (G-A6)		
Average Ambient Temperature (°C)	30.5	Average Humidity (%)	80
Average Wind Speed (km/hr)	181.5	Average Wind direction (Deg)	318
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1744	13.1	46.02	13.06	< 6.0	< 9.0	0.29	137.8	0.01	< 1.0
2	05.09.2024	GA/24/1767	12.0	45.09	12.10	< 6.0	< 9.0	0.59	162.3	0.05	< 1.0
3	09.09.2024	GA/24/1778	13.0	46.80	14.22	< 6.0	< 9.0	0.64	176.9	0.05	< 1.0
4	12.09.2024	GA/24/1792	12.5	46.00	13.18	< 6.0	< 9.0	0.77	175.0	0.09	< 1.0
5	16.09.2024	GA/24/1812	13.8	48.66	14.68	< 6.0	< 9.0	0.83	148.6	0.08	< 1.0
6	19.09.2024	GA/24/1831	12.2	47.00	12.52	< 6.0	< 9.0	0.41	166.2	0.05	< 1.0
7	23.09.2024	GA/24/1844	10.3	43.31	11.56	< 6.0	< 9.0	0.88	173.5	0.04	< 1.0
8	26.09.2024	GA/24/1857	9.5	42.83	10.23	< 6.0	< 9.0	0.86	183.4	0.07	< 1.0
9	30.09.2024	GA/24/1872	10.9	44.05	11.06	< 6.0	< 9.0	0.67	120.8	0.06	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 56-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1329-R-273-DTC-2015	15/02/2024	14/02/2025
Gaseous Sampler Sr. No. 6773-DTB-2020	12/02/2024	11/02/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



# GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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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	04/10/2024		
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	September 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Satarda - Maharashtra State (M-A1)		
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	85
Average Wind Speed (km/hr)	132	Average Wind direction (Deg)	318.5
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1742	11.3	45.03	12.93	< 6.0	< 9.0	0.45	178.1	0.04	< 1.0
2	05.09.2024	GA/24/1765	10.4	44.38	11.77	< 6.0	< 9.0	0.46	151.2	0.06	< 1.0
3	09.09.2024	GA/24/1776	12.8	46.36	13.06	< 6.0	< 9.0	0.70	174.2	0.03	< 1.0
4	12.09.2024	GA/24/1790	12.0	46.62	12.02	< 6.0	< 9.0	0.66	159.6	0.05	< 1.0
5	16.09.2024	GA/24/1810	13.0	47.52	14.64	< 6.0	< 9.0	0.81	171.8	0.04	< 1.0
6	19.09.2024	GA/24/1829	12.3	45.82	12.89	< 6.0	< 9.0	0.44	157.1	0.05	< 1.0
7	23.09.2024	GA/24/1842	11.0	42.50	11.44	< 6.0	< 9.0	0.74	146.6	0.06	< 1.0
8	26.09.2024	GA/24/1855	10.7	41.75	10.19	< 6.0	< 9.0	0.71	172.0	0.08	< 1.0
9	30.09.2024	GA/24/1870	12.0	43.28	12.10	< 6.0	< 9.0	0.61	154.1	0.02	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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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- Customer complaint register is available at laboratory.
- 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**  
**[SACHIN B. GAONKAR]**



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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. 1344-G-23	17/10/2023	17/10/2024
Respirable Dust Sampler Sr. No. 194-E-22	17/05/2024	16/05/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2024		
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	September 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Dingane – Maharashtra State (M-A2)		
Average Ambient Temperature (°C)	31.0	Average Humidity (%)	78
Average Wind Speed (km/hr)	129	Average Wind direction (Deg)	300
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1745	9.4	42.00	11.02	< 6.0	< 9.0	0.68	185.4	0.01	< 1.0
2	05.09.2024	GA/24/1768	8.6	41.37	10.35	< 6.0	< 9.0	0.65	167.2	0.06	< 1.0
3	09.09.2024	GA/24/1779	10.8	43.82	12.48	< 6.0	< 9.0	0.62	179.6	0.02	< 1.0
4	12.09.2024	GA/24/1793	9.3	43.01	11.14	< 6.0	< 9.0	0.68	172.5	0.10	< 1.0
5	16.09.2024	GA/24/1813	10.7	45.38	12.72	< 6.0	< 9.0	0.74	145.9	0.05	< 1.0
6	19.09.2024	GA/24/1832	10.1	43.53	11.89	< 6.0	< 9.0	0.64	163.7	0.04	< 1.0
7	23.09.2024	GA/24/1845	9.40	40.22	10.35	< 6.0	< 9.0	0.92	169.5	0.03	< 1.0
8	26.09.2024	GA/24/1858	8.5	39.48	9.48	< 6.0	< 9.0	0.66	173.0	0.06	< 1.0
9	30.09.2024	GA/24/1873	10.2	40.97	10.98	< 6.0	< 9.0	0.59	172.6	0.06	< 1.0
<b>NAAQS LIMITS *</b>			--	100	60	80	80	2	--	1	--
<b>UNITS</b>			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
<b>METHOD</b>			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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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- Customer complaint register is available at laboratory
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For **GADARK LAB PVT. LTD.**

**AUTHORISED SIGNATORY**  
[SACHIN B. GAONKAR]



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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. 60-C-22	15/12/2023	14/12/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	15/02/2024	14/02/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

### AMBIENT AIR QUALITY MONITORING REPORT

Report Date	04/10/2024		
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	September 2024		

### AMBIENT AIR LOCATION

Location of Ambient Air Station	Netarde - Maharashtra State (M-A3)		
Average Ambient Temperature (°C)	30.0	Average Humidity (%)	71
Average Wind Speed (km/hr)	136.5	Average Wind direction (Deg)	306
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 <sub>10</sub>	PM <sub>2.5</sub>	SO <sub>2</sub>	NO <sub>x</sub>	CO	CO <sub>2</sub>	Lead	VOC
1	02.09.2024	GA/24/1743	9.5	39.55	10.31	< 6.0	< 9.0	0.42	186.1	0.02	< 1.0
2	05.09.2024	GA/24/1766	8.5	38.00	9.44	< 6.0	< 9.0	0.61	163.8	0.07	< 1.0
3	09.09.2024	GA/24/1777	9.1	40.51	10.98	< 6.0	< 9.0	0.65	171.7	0.05	< 1.0
4	12.09.2024	GA/24/1791	8.7	39.93	10.15	< 6.0	< 9.0	0.74	162.7	0.06	< 1.0
5	16.09.2024	GA/24/1811	10.0	41.48	11.35	< 6.0	< 9.0	0.77	151.8	0.02	< 1.0
6	19.09.2024	GA/24/1830	9.8	39.87	10.06	< 6.0	< 9.0	0.35	122.1	0.06	< 1.0
7	23.09.2024	GA/24/1843	8.5	37.43	9.40	< 6.0	< 9.0	0.65	138.8	0.06	< 1.0
8	26.09.2024	GA/24/1856	7.1	36.80	8.36	< 6.0	< 9.0	0.88	172.8	0.08	< 1.0
9	30.09.2024	GA/24/1871	8.5	38.00	9.44	< 6.0	< 9.0	0.49	173.5	0.05	< 1.0
NAAQS LIMITS *			--	100	60	80	80	2	--	1	--
UNITS			µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	µg/m <sup>3</sup>	mg/m <sup>3</sup>	ppm	µg/m <sup>3</sup>	ppm
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	IS 5182 (Part XXIV) 2006	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  
[SACHIN B. GAONKAR]



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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. 940-DTA-2020	14/02/2024	13/02/2025
Respirable Dust Sampler Sr. No. 477-A-23	09/01/2024	08/01/2025
Gaseoue Sampler Sr. No. 470-L-22	08/01/2024	07/01/2025
UV Spectrophotometer Sr. No. UV - 3092	05/07/2024	04/10/2024
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	10/01/2024	09/01/2025



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## TEST REPORT

NOISE LEVEL MONITORING REPORT							
Date of Issue	04/10/2024						
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)
						Leq	Leq
1	18.09.2024	GA/24/1819	G-N1	I	Mopa Boundary	66.3	60.1
2	18.09.2024	GA/24/1818	G-N2	I	Shemecheadvan	63.6	49.3
3	17.09.2024	GA/24/1816	G-N3	C	Nagzar	58.0	51.9
4	17.09.2024	GA/24/1817	G-N4	R	Purva Casarvarnem	52.3	41.5
5	23.09.2024	GA/24/1848	G-N5	R	Chandel	52.9	42.4
6	20.09.2024	GA/24/1836	G-N6	R	Khajne Amere Porscodem	51.0	42.9
7	23.09.2024	GA/24/1849	G-N7	R	Warkhand	47.7	38.9
8	24.09.2024	GA/24/1850	G-N8	C	Rajvil Wada Torxem	62.9	51.7
9	24.09.2024	GA/24/1851	G-N9	C	Village Panchayant Tamboxem - Mopa - Ugvem	57.2	51.8
10	20.09.2024	GA/24/1835	M-N1	R	Satarda	52.4	43.6
11	27.09.2024	GA/24/1861	M-N2	R	Dingane	44.2	38.0
12	27.09.2024	GA/24/1862	M-N3	R	Netarde	41.2	32.6
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			
	(A)	Industrial Area (I)		Day Time	Night Time		
	(B)	Commercial Area (C)		75	70		
	(C)	Residential Area (R)		65	55		
	(D)	Silence Zone (S)		55	45		
				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.							
<b>Note :</b>							
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4. Customer complaint register is available at laboratory.							
5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.							
For <b>GADARK LAB PVT. LTD.</b>							
							
<b>AUTHORISED SIGNATORY</b> <b>[SACHIN B. GAONKAR]</b>						<b>CHECKED BY</b>	

**CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING**

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 554067	16/05/2024	15/05/2025

<b>Equipment Name</b>	<b>Calibrated On</b>	<b>Calibration Due Date</b>
Noise Level Meter Sr. No. 546176	20/06/2024	19/06/2025



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## TEST REPORT

ANALYSIS REPORT FOR WATER SAMPLE				
Report No.	GW/24/1724	Report Date	24/09/2024	
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 19/09/2024	Environmental Condition of Lab	Temp °C	Humidity %
			27.5	77
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	APHA 1060	
Sampling Point	STP Outlet (A.C.F.)			
Sampling Details	STP Outlet (A.C.F.) Water Sample	Date of Collection	19/09/2024	
Sample Collected by	GLPL Representative	Sample Received On	20/09/2024	
Analysis Started On	20/09/2024	Analysis Completed On	24/09/2024	
Sample Container	Plastic Carboy + Glass Bottle	Sample Quantity	5 lit + 1.5 lit	

### Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	6.98	-	5.5 - 9.0	APHA 4500 H <sup>+</sup>
2	Chemical Oxygen Demand (COD)	36	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	6	mg/lit	10.00	IS 3025 (Part 44)
4	Total Suspended Solids (TSS)	2	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	3.47	mg/lit	5.00	APHA 4500 NH <sub>3</sub> B&C
7	Total Nitrogen (as N)	5.49	mg/lit	10.00	APHA 4500-Norg

### Microbiological Parameters:

9	Fecal Coliform at 44.5°C for 24 hrs.	27	MPN Index/100ml	100	APHA 9221 E
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End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY  
[SACHIN B. GAONKAR]



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### Note:

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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/02	-	In house Calibration	
02.	pH Meter	GL/EQ/pH/03	-	In house Calibration	
03.	Hot Air Oven	GL/EQ/O/01	AVI 2406053	28/06/2024	27/06/2025
04.	COD Digester	GL/EQ/COD/01	AVI 2406054	28/06/2024	27/06/2025
05.	COD Digester	GL/EQ/COD/02	AVI 2406055	28/06/2024	27/06/2025
06.	BOD Incubator	GL/EQ/I/02	AVI 2406052	28/06/2024	27/06/2025
07.	Microbiological Incubator (35 ° C)	GL/EQ/I/03	AVI 2406080	29/06/2024	28/06/2025
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/I/01	AVI 2406081	29/06/2024	28/06/2025
09.	Laminar Air Flow	GL/EQ/LAF/01	TECH/VAL/ 2024/02/107	15/02/2024	14/02/2025
10.	Autoclave	GL/EQ/A/01	AVI 2406070	29/06/2024	28/06/2025

**ANNEXURE – 3**

**COMPLIANCE STATUS**

**of**

**CONCERNS RAISED DURING  
PUBLIC HEARING**

**GREENFIELD  
MANOHAR INTERNATIONAL AIRPORT,  
Mopa, Goa**

**Directorate of Civil Aviation  
Government of Goa**

**&**

**GMR Goa International Airport Limited**

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
01	Questioned the panel members present on the dais for the public hearing and the role of other members seated on the dais.	Collector North Goa clarified that as per the Notification, Collector & the Addl. Collector were present along with the Member Secretary, Goa State Pollution Control Board and other officials of the Airport Directorate (Project Proponent)	No further action is required.
02	Desired to know whether thorough inspection has been done of the Mopa plateau by the panel of six members.	The agency who prepared the Master Plan and collected the baseline data have visited the site.	No further action is required.
03	<ul style="list-style-type: none"> <li>• Dabolim Airport is controlled by Navy, when assurance was given that the same will be permitted for civilian use. However, the assurances are not kept.</li> <li>• It was feared that the Dabolim airport will be closed down due to the commencement of the Mopa airport. How can 3 Airports exist within 100-150 Kms (Dabolim, Mopa &amp;Chipli)</li> <li>• Environmental Impact study has to be done in a proper manner.</li> </ul>	<ul style="list-style-type: none"> <li>• It is a cabinet decision by the Government of India that the Dabolim Airport will continue to operate its civilian enclave even after commissioning of Mopa Airport.</li> <li>• As per traffic forecast made in the Master Plan of Mopa Airport there will be traffic for both Dabolim and Mopa Airport to operate.</li> <li>• The EIA report has been prepared as per the TOR &amp; Guidelines issued by MoEF.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p> <p>No further action is required.</p>
04	The report states that rain water harvesting will be done, when the plateau is surrounded by the Villages on all sides which will be affected.	Rain water harvesting will be done and the path of water flow is shown in the report and there will be no effect on the Villages.	The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD)vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.
05	Not against Dabolim Airport, however, Mopa will improve the state financial position of Goa and raise Goa on an international map. It was further stated that Mopa airport is required since Dabolim does not have the required capacity and Mopa airport will provide ample employment opportunities to the people. It was requested that the work on the airport be started at the earliest.	Work started as per Concession Agreement.	Scheduled commercial Airport operations started on 5 <sup>th</sup> Jan 2023.

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
06	<p>The plateau has multiple water sheds, and the discharge of water is going down to the rivers. Desired to know whether ETP /STP for industrial discharge from the plateau will be constructed. Whether there will be individual STP/ETP and whether disposal of garbage is taken care of. Desired to know the stress on the garbage management on account of catering facilities, the cargo inflow and the outflow.</p>	<p>Separate STP and garbage management plan has been provided in the Master Plan keeping in mind catering &amp; cargo facilities as well.</p>	<p>STP and Garbage Management Facility have been provided.</p>
07	<ul style="list-style-type: none"> <li>• The report shows couple of rain water harvesting sites which appear to be not sufficient. Rainfall is approximately 1200 mm (One Thousand Two Hundred). No water is harvested till date.</li> <li>• Desired to know whether the airport is going to have a Green building</li> </ul>	<ul style="list-style-type: none"> <li>• A dedicated Rain water harvesting project will be carried out.</li> <li>• The terminal building will be a green building.</li> </ul>	<p>The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.</p> <p>Passenger Terminal Building (PTB), designed &amp; constructed as a Green Building has been accredited with Indian Green Building Council (IGBC) Green Building Platinum Standard Certification.</p>
08	<ul style="list-style-type: none"> <li>• Due to the setting up of the airport the water supply has to be increased, electricity supply has to be augmented, the fresh water springs have to be rejuvenated.</li> </ul>	<ul style="list-style-type: none"> <li>• 5 MLD of water from Right Bank Main Canal of Tillari Irrigation Project is allotted. Starting with 10 MVA in Phase I, eventually at the time of airport attaining the saturation capacity up to 40 MVA power supply capacity has been planned. Natural channels of water flow feeding the water bodies will not be disturbed by suitably channelizing the water flow at the project site.</li> </ul>	<p>Water supply pipeline to the airport has been provided. Water is being pumped into water storage tanks.</p> <p>A dedicated power supply line has been provided for the airport.</p> <p>The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	<ul style="list-style-type: none"> <li>Technical and Professional colleges should be set up to impart training to the locals so as to provide employment opportunities and minimum price of land should be notified for the benefit of the farmers</li> <li>People who will lose land should be adequately compensated. Till date no compensation has been paid to the land affected. Supported for the early commencement of the project.</li> </ul>	<ul style="list-style-type: none"> <li>All the required trainings shall be provided at the ITI Pernem, for which the Infrastructure will be provided by the Govt. and Faculty and other software will be provided by the Developer wherein the locals will be trained and absorbed when operations start.</li> <li>Land compensation claims are paid by Special Land Acquisition Officer as per land acquisition awards. In addition, GoG has paid additional 3 times compensation to the land losers whose lands have been acquired and claims have been settled.</li> </ul>	<p>An Aviation Skill Development Centre (ASDC) has been set up at the airport.</p> <p>No further action is required.</p>
09	<ul style="list-style-type: none"> <li>The flora and fauna of the village will be affected. The springs which number around 40 will be affected. The EIA report does not state the farming and agricultural places. The hearing has been conducted where the land is barren which shows that there is no plantation at all. The report is biased and is done on political pressure.</li> <li>It was felt that the report has been prepared not on the basis of site visit by taking the locals into consideration, but prepared as per the documents available.</li> </ul>	<ul style="list-style-type: none"> <li>The airport is presently coming on a flat terrain of a hill top. The valleys where some forest exists will be unaltered due to the project activities. The Compensatory Afforestation program will be adopted with due consultation with Goa Forest Department.</li> <li>The report has been prepared based on the field study carried out by Functional area experts.</li> </ul>	<p>Plantation of 5 lakh saplings by Goa State Bio-diversity Board has been completed.</p> <p>In addition, plantation of 51,000 saplings has been completed within the airport site.</p> <p>No further action is required.</p>
10	<ul style="list-style-type: none"> <li>Copy of the EIA report has not been made available to individuals. The Report does make a mention of the animal life in the report wherein endangered species have been reflected.</li> <li>The Civil Aviation Ministry has declared that no two Airports shall be allowed in the State of Goa.</li> </ul>	<ul style="list-style-type: none"> <li>EIA report is not made available to the individuals, but available for public with the authorities concerned. The threatened species as per Schedule-I category of Wildlife Protection Act, 1972 are mentioned in the EIA report.</li> <li>There is no such declaration by the Civil Aviation Ministry, GOI</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p>
	<ul style="list-style-type: none"> <li>The preparation of EIA report takes 3 years and not 3 months as this report, which has been prepared in a</li> </ul>	<ul style="list-style-type: none"> <li>The EIA report is prepared as per the Terms of Reference/EIA Manual for Airports and accordingly the information provided</li> </ul>	<p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
11	<p>hurry.</p> <ul style="list-style-type: none"> <li>The fertility of the soil is not mentioned. Report does not go into the aspect of the overall impact.</li> <li>The effect of river Chapora which comes under the 10 Kms Zone, which will be destroyed, is not considered. It was further questioned whether this will be destruction of Goa.</li> <li>The flora and fauna of the villages have not been reflected and feared its destruction. The area is a permeable area and cause flooding in the villagers. EIA has not shown the Disaster Management Plan in the report.</li> </ul>	<p>is for one season data.</p> <ul style="list-style-type: none"> <li>The soil quality and its impact have been measured and mentioned in the EIA Report. (Pg. No. 41/42)</li> <li>Overall impact of the project has been analyzed and details provided in chapter 5 of EIA report. There will be no effect on Chapora river other than water consumption from Tillari canal due to the proposed Airport.</li> <li>The flora and fauna mentioned in the report is 10 km surrounding from the project site where all villages coming under 10 km radius were covered. There will be no flooding due to construction of Airport. Drainage patterns have been studied for before and after construction of project and the same have been reflected in the report under section 5.3.3 of chapter 5. It is shown in Annexure VI of EIA Report.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p> <p>No further action is required.</p>
12	<ul style="list-style-type: none"> <li>Whether the Public Hearing has a legal status like a Court – questioned the legality of the proceeding. Whether advertisement is issued in the Goa Newspapers and on which newspapers. There are two buffer zones within 5Kms and 10 kms radius. Whether the EIA report has been submitted to the Gram Panchayats in these buffer zones. Whether advertisement has been issued in the newspapers in Maharashtra. Non submission of the EIA report and advertisement on papers affects the Public hearing. No EIA report given to the Panchayats falling in the core zone areas.</li> <li>How the plateau has Bengal Tigers.</li> <li>How long the Engineers were there to carry out this study?</li> <li>EIA does not state the Buffer zone area.</li> </ul>	<ul style="list-style-type: none"> <li>It was clarified that advertisement was issued in the local newspapers i.e. The Navhind Times, Sunaparant and Gomantak, Herald and Indian Express (Mumbai edition) on 31<sup>st</sup> January, 2014. However, a repeat of the advertisement was issued on 31/01/2014, besides FM Radio, News Channels and Panchayats in the vicinity of the project have been given copies of the EIA report and the Executive summary for the perusal of the public. Copies of the Reports were also made available at the office of the District Magistrate, North Goa, Deputy Collector's Office, Zilla Panchayats, District Industries Officer, and other local bodies. Enough care has been taken for giving wide publicity.</li> <li>The present EIA report did not mention any Bengal tiger presence. However, some tiger species of butterflies are observed in the field and included in the report.</li> <li>One month</li> <li>The EIA report is prepared as per the Terms of Reference/EIA Manual for Airports with buffer zone of 5 km &amp; 10Km radius.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p> <p>No further action is required.</p> <p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	<ul style="list-style-type: none"> <li>Ground water percolation and recharge have not been mentioned. The EIA is false and fabricated as such this Public hearing in absence of authenticated data does not have any standing. The Public Hearing becomes illegal.</li> <li>The entire Mopa Plateau for the proposed airport is of 2271 acres of land which is by itself is a natural mechanism for ground water re-charge, whereas ground water recharge mentioned in the project by the project proponent could hardly be 500 sq. mtrs.</li> </ul>	<ul style="list-style-type: none"> <li>Rain water harvesting will be done for natural ground water recharge.</li> <li>Present Ground water level at Mopa is 5 – 10 mbgl (Annexure IV). To maintain the recharging of Ground water level after construction of the proposed Airport a Rain water Harvesting system as given in Annexure II &amp; III of EIA Report will be developed.</li> </ul>	<p>The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.</p> <p>The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.</p>
13	Government is promoting agriculture and not airport. Raised the issue of providing employment opportunities to the local people. He questioned how the Other Backward Class population will survive if their lands are taken away for the development of the airport.	The Airport project is expected to give a big boost for overall economic development of the State and generate employment opportunities.	No further action is required.
14	The springs in the vicinity of the proposed site will be affected and the impact on the water table will have to be studied.	Present Ground water level at Mopa is 5 – 10. mbgl (Annexure IV). To maintain the recharging of Ground water level after construction of the proposed Airport a Rain Water Harvesting system as given in Annexure II & III of EIA Report will be developed. The runoff inside the Airport area will be collected through storm water drains and will be routed to the nearest surface water body. There by, there will be no impact on ground & surface water resources.	The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels.
15	The EIA report contains many flaws, which have to be corrected by the Environment Ministry and the concerns raised by the public, should be addressed.	EIA report has been prepared as per relevant guidelines.	No further action is required.
16	<ul style="list-style-type: none"> <li>The EIA report prepared by Engineers India Limited is a false, manipulated report prepared at the behest of the Government of Goa. The EIA report is a gross fraud on the people of Goa. The same had to be</li> </ul>	<ul style="list-style-type: none"> <li>All guidelines of the MoEF are adhered to while preparing the report. Public hearing is conducted as per the Notification of the Govt. of India.</li> </ul>	No further action is required.

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	<p>prepared before acquiring the land and not after the acquisition of the land proceedings, which is stated as per the Law.</p> <ul style="list-style-type: none"> <li>Desired to know whether the EIA report has been authenticated by the Goa State Pollution Control Board</li> <li>The proposed six lane road project of the state Govt. does not reflect on the displacement of the affected people</li> </ul>	<ul style="list-style-type: none"> <li>GSPCB is not required to stamp / approve the report.</li> <li>No people are likely to be displaced on account of the proposed approach road.</li> </ul>	<p>No further action is required.</p> <p>Ministry of Road Transport &amp; Highways (MoRTH), Government of India (GoI) has notified the approach road connectivity to airport as a National Highway (NH) No. 166S, vide Gazette Notification dated 23-09-2020. Dedicated 6 lane access control expressway connectivity is constructed &amp; operational.</p>
17	Desired to know whether all guidelines for having a Green building for the airport have been followed. There is adequate requirement for water and electricity, and that the project will change the face of the North Goa District.	All the notifications issued by the Central Govt. will be adhered to in the construction of the Green building for the airport	Passenger Terminal Building (PTB), designed & constructed as a Green Building has been accredited with Indian Green Building Council (IGBC) Green Building Platinum Standard Certification.
18	The compensation towards land is not adequate, which has to be increased. Stated that it is better to have an airport than having a mining site in the location	GoG has already declared additional 3 times compensation to the persons whose lands have been acquired for Mopa Airport project. Payment of this additional compensation has already been made to the persons who have already claimed initial compensation as per Land Acquisition Awards.	No further action is required.
19	<ul style="list-style-type: none"> <li>Houses are located within 10 Kms of the buffer zone. The study shows the presence of a bauxite ore located on the plateau. The area is ideal for an airport?</li> <li>A detailed study report has to be carried out at least of the two seasons of the ground water, the socio – cultural impact study has also to be carried out.</li> </ul>	<ul style="list-style-type: none"> <li>NOC has been obtained from Mining department</li> <li>EIA Study covers one season data of Groundwater and Socio cultural impact as per EIA Manual for Airports</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p>
20	Congratulated for conduct of environmental public hearing for the development of the Village of Mopa. Desired that the Village Panchayat of Allornabe taken	The existing natural water channels at the Project site will not be disturbed by channelizing the water flow from the airport to feed the water bodies so that ground water levels in the	The rain water harvesting has been implemented as per revised Plan approved by Water Resources



## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	into confidence in this project. The ground water aspects should be assessed properly of Allorna Village.	surrounding villages is not disturbed	Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.
21	<ul style="list-style-type: none"> <li>• Jobs should be reserved for the persons who are losing land</li> <li>• The compensation for the land owners should be enhanced to Rs. 400/- per sq. mtr. The land disputes should be settled Local suggestions regarding bio-diversity should be taken into confidence. Rain water should be utilized for generation of electricity.</li> </ul>	<ul style="list-style-type: none"> <li>• 1 person each from the displaced families has been provided employment by the Concessionaire. As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafide Goans in employment. The Concessionaire is obligated to setup an Aviation Skill Development Centre to provide training to the local youth to become employable.</li> <li>• GoG has declared 3 times additional compensation to the persons whose lands have been acquired. Wherever there are disputes in the land compensation claims the same are referred to the District Court as per land acquisition act 1894. Rain water harvesting is planned to replenish ground water levels.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p>
22	<ul style="list-style-type: none"> <li>• Desired that the affected farmers should be paid adequately.</li> <li>• Arrangements should be done for the supply of water to the farmers for their cultivation.</li> <li>• Dust pollution during construction activity should be controlled.</li> </ul>	<ul style="list-style-type: none"> <li>• GoG has declared 3 times additional compensation to the affected land losers.</li> <li>• The existing natural water channels will not be disturbed by channelizing the water flow from the airport to feed the water bodies so that availability of water for cultivation is addressed.</li> <li>• Dust pollution during construction activity will be controlled and the same is reflected in EIA Report.</li> </ul>	<p>No further action is required.</p> <p>The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels.</p> <p>Dust Control Management Plan was implemented during construction phase.</p>
23	<ul style="list-style-type: none"> <li>• The EIA report has not been available to the buffer affected zones and Gram Panchayat.</li> <li>• Desired to know why the report has not been made</li> </ul>	<ul style="list-style-type: none"> <li>• The EIA report was available as per the requirements of the EIA Notification, to the local bodies and the concerned Government Authorities and Offices within whose jurisdiction the project is located.</li> <li>• State pollution control board has coordinated the task of PH and no administrative unit of Maharashtra is falling in the</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	<p>available in Maharashtra.</p> <ul style="list-style-type: none"> <li>Desired that the Western Ghats have to be protected.</li> <li>The air traffic should not disturb the flora and fauna of the Western Ghats which is under threat.</li> </ul>	<p>development area</p> <ul style="list-style-type: none"> <li>The present proposed airport site is falling under Pernem taluka of North Goa district. The Pernem taluka has not been included in the Ecologically Sensitive Areas submitted by HLWG. The MoEF order on ESA is attached as Annexure XVI.</li> <li>The air traffic will not disturb the flora and fauna of the region much. However, the noise generation in the night time may affect some bird movement.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p>
24	<p>Cattle farming and plantation of the local people will be affected, which should be taken care of</p>	<p>Cattle farming and plantation of the local people of the buffer areas would not be affected. The settlements coming inside the core areas of the project will be rehabilitated as per Government of Goa compensation.</p>	<p>No further action is required.</p>
25	<ul style="list-style-type: none"> <li>The locals should be adequately compensated which is not done till date.</li> <li>The EIA study contain all flaws, which should have impartially contained all facts.</li> <li>For the conduct of Environmental Public Hearing all contracts have been entrusted to the people from Kolhapur, then what guarantee is there that employment will be provided to the local people.</li> <li>The number of trees to be affected by the proposed project have not been included in the report.</li> <li>The area required for the Airport has not been declared. The excess land which Govt. acquired needs to be deleted specially in the SimechemAdvem.</li> </ul>	<ul style="list-style-type: none"> <li>Compensation is paid as per the awards passed by the concerned authority, besides additional 3 times compensation has been sanctioned by the GoG.</li> <li>EIA Report has been prepared as per relevant guidelines</li> <li>1 person each from the displaced families has been provided employment by the Concessionaire. As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafideGoans in employment. The Concessionaire is obligated to setup an Aviation Skill Development Centre to provide training to the local youth to become employable.</li> <li>After enumeration 54,176 trees were felled after taking due permissions from the competent authorities and 500 trees have been identified for transplantation.</li> <li>No excess land has been acquired for the project</li> </ul>	<p>No further action is required.</p> <p>No further action is required</p> <p>No further action is required.</p> <p>Plantation of 5 lakh saplings by Goa State Bio-diversity Board has been completed. In addition, plantation of 51,000 saplings have been completed within the airport site. Trees translocation has been completed.</p> <p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
26	Supported the project as Goa's development will be based on the construction of the airport.	Noted	No further action is required.
27	Objected for the construction of the Golf course on the land earmarked for the Airport project. However, supported the project for the construction of the airport	There is no proposal for construction of Golf Course at the airport area.	There was no such proposal at that time.
25	Supported the proposal for the construction of the airport	Noted	No further action is required.
26	Supported the airport project but however, desired that adequate compensation be given to the affected people.	Compensation is paid as per the awards passed by the concerned authority, besides additional 3 times compensation has been sanctioned by the GoG.	No further action is required.
27	The problems related to Schools, water, farming and agriculture should be resolved. However, supported the construction of the airport.	Noted	No further action is required.
28	<ul style="list-style-type: none"> <li>• Adequate land compensation has not been paid to the affected people.</li> <li>• Further desired that guidelines for rain water harvesting be followed.</li> </ul>	<ul style="list-style-type: none"> <li>• Compensation is paid as per the awards passed by the concerned authority, besides additional 3 times compensation has been sanctioned by the GoG.</li> <li>• A dedicated Rain water harvesting project will be carried out.</li> </ul>	<p>No further action is required.</p> <p>The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.</p>
29	Natural resources will be affected. The roads should be properly demarcated by following all the norms.	Natural channels of water flow feeding the water bodies will not be disturbed by suitably channelizing the water flow at the project site. A dedicated Rain water harvesting project will be carried out. Road demarcation and construction will be done as per norms.	The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
			water runoff outflow from airport site connected to natural water channels.
30	Supported both the Airports Dabolim and Mopa but insisted that the locals should be trained and given job opportunities.	As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafideGoans in employment. The Concessionaire is obligated to setup an Aviation Skill Development Centre to provide training to the local youth to become employable.	An Aviation Skill Development Centre (ASDC) has been set up at the airport.
31	Proper rates should be given for their acquired land. First preference for jobs should be given for the locals of this village. Locals should be given priority, opportunities.	Land compensation claims are paid by Special Land Acquisition Officer as per land acquisition awards. In addition, GoG has paid additional 3 times compensation to the land losers whose lands have been acquired and claims have been settled. As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafideGoans in employment.	No further action is required.
32	Adequate compensation should be given to the land owners; preference should be given for locals with regard to employment opportunities.	Land compensation claims are paid by Special Land Acquisition Officer as per land acquisition awards. In addition, GoG has paid additional 3 times compensation to the land losers whose lands have been acquired and claims have been settled. As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafideGoans in employment.	No further action is required.
33	Supported the proposal for the construction of the airport	Noted	No further action is required.
34	Supported the proposal for the construction of the airport, however care should be taken for conducting water harvesting.	Rain water harvesting is planned	The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.
35	Supported the proposal for the construction of the airport	Noted	No further action is required.
36			

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	Compensation to the affected land owners should be adequate and proportionate. Attention should also be paid for the recharging of the ground water and soil which requires to be given due attention.	Land compensation claims are paid by Special Land Acquisition Officer as per land acquisition awards. In addition GoG has paid additional 3 times compensation to the land losers whose lands have been acquired and claims have been settled.	No further action is required.
37	The report ignores the wild life, and has omitted the springs, the flora the fauna and the fertile soil. Further sought to know why was the data collected from the survey conducted in 2011?	The flora and fauna data for the present site was collected during December 2013 to February 2014. Secondary resources, institutions like Goa University, Fisheries Department, Botanical Survey of India, Zoological Survey of India, Forest Department, Goa State Biodiversity Board were consulted while writing the report. The biological report was made with primary data collection in the field as well as available literature.	No further action is required.
38	Stated that the rate of compensation to the affected people is very less, which should be reasonable.	Land compensation claims are paid by Special Land Acquisition Officer as per land acquisition awards. In addition GoG has paid additional 3 times compensation to the land losers whose lands have been acquired and claims have been settled.	No further action is required.
39	The water table and the springs will be adversely affected.	Present Ground water level at Mopa is 5 – 10 mbgl (Annexure IV). To maintain the recharging of Ground water level after construction of the proposed Airport a Rain Water Harvesting system as given in Annexure II & III of EIA Report will be developed. The runoff inside the Airport area will be collected through storm water drains and will be routed to the nearest surface water body. There by, there will be no impact on ground & surface water resources.	The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021. The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels.
40	Failed to meet the requirements of the Wild Life Act, 1972	The species belong to Schedule-I category of WPA, 1972 are mentioned in the EIA report.	No further action is required.
41	Supported the proposal for the construction of the airport	Noted	No further action is required.

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
42	The destruction of the water tables / springs in every village has to be assessed and proper remedial measures have to be proposed.	Present Ground water level at Mopa is 5 – 10 mbgl (Annexure IV). To maintain the recharging of Ground water level after construction of the proposed Airport a Rain Water Harvesting system as given in Annexure II & III of EIA Report will be developed. The runoff inside the Airport area will be collected through storm water drains and will be routed to the nearest surface water body. There by, there will be no impact on ground & surface water resources.	The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021. The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels.
43	The dhargar families living in the earmarked land for the proposed project should be properly compensated, since they are not having proper records of their lands, although they were residing in the area for centuries.	Out of 15 Project Affected Families, 14 have been rehabilitated and 1 family has claimed compensation.	No further action is required.
44	Supported the proposal for the construction of the airport	Noted	No further action is required.
45	<ul style="list-style-type: none"> <li>• Guidance Manual, points out that stress should be given to the location. The EIA has not taken the location of the project in consideration. The plateau is located close to the Western Ghats.</li> <li>• EIA fails to reflect the impact on Tillari dam.</li> <li>• The Dodamarg Wild Life sanctuary has been sanitized by the Hon. High Court. Adequate permissions from the Chief Wild Life warden have not been obtained.</li> </ul>	<ul style="list-style-type: none"> <li>• The present proposed airport site is falling under Pernem taluka of North Goa district. The Pernem taluka has not been included in the Ecologically Sensitive Areas submitted by HLWG.</li> <li>• No objection certificate from GOG dated 30.01.2015 to withdraw 5 MLD of water from Right Bank Main canal of Tillari Project is obtained. Tillari dam is beyond 15 Kms from the project site.</li> <li>• Bombay High Court has ordered the Maharashtra Government to declare the DodamargSawantwadi wildlife corridor an ecologically sensitive area. MoEF has not declared the region as a Wildlife Sanctuary so far. Moreover, the present project is not a part of this wildlife corridor.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p> <p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
46	The project proponent has ignored the fact that the site is having bauxite ore, 43 perennial springs which support farming and agriculture and fisheries of Chapora and Tiracol rivers.	NOC has been obtained from Mining department for construction of Airport. Agricultural activities and fisheries of this region will not be affected by these project activities. Natural channels of water flow feeding the water bodies will not be disturbed by suitably channelizing the water flow at the project site.	No further action is required.
47	The socio-cultural impact on the State of Maharashtra has been ignored in the report.	The contours of the project area border the neighboring state of Maharashtra. The land is mainly non-cultivable used largely by interstate migratory populace herding cattle. This inter-state migratory segment of the population would also benefit by way of employment and increased income opportunities arising from the project including tourism, transportation and communications.	No further action is required.
48	Medicinal use of the plants has also not been reflected in the report.	Medicinal plants of this region are included in the EIA report.	The Goa State Bio-diversity Board has provided details of medicinal use of the plants vide letter No. 6-1-2020/GSBB/ISS/140 dated 20-07-2020.
49	The Terms of Reference has expired in May, 2014 which is invalid	Validity of the TOR has been extended by one year up to 31 <sup>st</sup> May, 2015.	No further action is required.
50	Forest Clearance has not been obtained and the Other Backward Community has not been included in the Report	Stage I and II Forest Clearance for an area of 1133 sq. mts.has been obtained under FCA, 1980 for approach lighting system.  For an area of about 25,000 sq. mts. in the approach road alignment, FCA clearance will be obtained.	No further action is required.  Ministry of Road Transport & Highways (MoRTH), Government of India (GoI) has notified the approach road connectivity to airport as a National Highway (NH) No. 166S, vide Gazette Notification dated 23-09-2020.Dedicated 6 lane access control expressway connectivity is constructed & operational.

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
51	The Manual requires Litigation to be mentioned in the EIA Report, but it does not mention ongoing litigation regarding land acquisition.	There is no litigation regarding land acquisition.	No further action is required.
52	The approach lighting extends 100s of meters beyond the edge of the plateau, making it technically not feasible.	For an area of 1133 sq. mtrs (length 250 meters) for approach lighting system stage I & stage II clearance has been obtained under FCA 1980	No further action is required.
53	The sacred groves of the area have not been described including the Barazan which will be lost.	To ensure that the Sacred groove (Barazan) is protected and kept untouched. It has been culled out of the project area to give unhindered access to the villagers.	No further action is required.
54	The socio economic aspect of the community is our greatest wealth.	As per the Environment Management Plan in the EIA Study, the local population will benefit from employment and income generating opportunities both during the construction and operational phases of the project. Further, it has been suggested that local population is to be employed to the extent possible. The socio economic impacts including increase in tourism, transportation, communication, employment generation, and revenue income to state government would have positive impacts for the local population enabling increased economic activities and enhancement of wealth in the area.	No further action is required.
55	Supported the proposal for the construction of the airport	Noted	No further action is required.
56	The land owners should be adequately compensated and precautions should be taken to safeguard springs.	Land compensation claims are paid by Special Land Acquisition Officer as per land acquisition awards. In addition, GoG has paid additional 3 times compensation to the land losers whose lands have been acquired and claims have been settled.  The existing natural water channels at the Project site will not be disturbed by channelizing the water flow from the airport to feed the water bodies.	No further action is required.  The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-



## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
			02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels.
57	Supported the proposal for the construction of the airport	Noted	No further action is required.
58	<ul style="list-style-type: none"> <li>That the issues raised at the hearing namely environment issues and land related issues should be addressed in detail by the Government. Stated that all the issues are to be considered and resolved by the Government.</li> </ul>	<ul style="list-style-type: none"> <li>All the issues are considered for resolution. Additional 3 times compensation is declared to the land losers.</li> <li>1 person each from the displaced families has been provided employment by the Concessionaire.</li> <li>As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafideGoans in employment. The Concessionaire is obligated to setup an Aviation Skill Development Centre to provide training to the local youth to become employable. Environmental issues are being addressed.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p> <p>An Aviation Skill Development Centre (ASDC) has been set up at the airport.</p>
59	Stated that he resides at Dhangarvaddo his livelihood by way of agriculture and rearing of livestock. Stated that the airport project will cause huge loss to livelihood.	1 person each from the displaced families has been provided employment by the Concessionaire. 14 Project Affected families have been rehabilitated with a house, cowshed to each family and common area for grazing of livestock.	No further action is required.
60	<ul style="list-style-type: none"> <li>Stated that the Airport project will cause destruction of standing crops.</li> <li>Stated that the airport project will cause destruction of water resources.</li> <li>Stated that the KamdhenuYojana Scheme will be affected if the project takes off, and milk production will also be affected. Stated that local population is uneducated and will not be able to get employment in the Airport project.</li> </ul>	<ul style="list-style-type: none"> <li>The proposed airport project will not hamper the standing crops as the flight movement is restricted to certain areas.</li> <li>Proper Solid &amp; Hazardous Management plan will be adopted to avoid any ground water contamination through leachates.</li> <li>The Concessionaire is obligated to setup an Aviation Skill Development Centre to provide training to the local youth to become employable.</li> </ul>	<p>No further action is required.</p> <p>Integrated Solid Waste Management Plan approved by Goa State Pollution Control Board is being implemented.</p> <p>An Aviation Skill Development Centre (ASDC) has been set up at the airport.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
61	<p>Stated that the airport project will cause destruction of the environment and agriculture in the area.</p>	<p>For construction of airport, 54,176 trees have been felled by taking necessary permission from competent authority and 500 trees are identified for transplantation. Afforestation of 10 times the number of trees felled is planned over a period of 5 years, which will enhance the overall green cover of the state. A Budget with capital &amp; Recurring cost is also considered for executing the Environmental Management Plan and is mention in section 10.5 of EIA Report.</p>	<p>Plantation of 5 lakh saplings by Goa State Bio-diversity Board has been completed. In addition, plantation of 51,000 saplings has been completed within the airport site.</p>
62	<ul style="list-style-type: none"> <li>• Stated that airport project will cause serious problems in supply of water and electricity to the local residents.</li> <li>• Stated that the project will cause destruction of agriculture in the area.</li> <li>• Stated that the Government will be required to provide adequate employment to the local residents.</li> </ul>	<ul style="list-style-type: none"> <li>• Permission to draw 5MLD of water from Right Bank Main Canal of Tillari Irrigation Project and 220 KV from State grid have already been obtained.</li> <li>• There will be no impact on agricultural land due to proposed project.</li> <li>• There will be many employments opportunities' from the proposed Airport and its associated development.</li> </ul>	<p>Water supply pipeline has been provided to airport project. Water is being pumped into water storage tanks at site.</p> <p>No further action is required.</p> <p>No further action is required.</p>
63	<ul style="list-style-type: none"> <li>• Submitted that there are 5 issues namely environment, land, construction of airport, development of Pernem Taluka and development of youth of Mopa. Stated that this issue should not lead to North - South divide in the State.</li> </ul>	<ul style="list-style-type: none"> <li>• All the issues are considered for resolution. Additional 3 times compensation is declared to the land losers.</li> <li>• 1 person each from the displaced families has been provided employment by the Concessionaire.</li> <li>• As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafideGoans in employment.</li> <li>• The Concessionaire is obligated to setup an Aviation Skill Development Centre to provide training to the local youth to become employable.</li> <li>• Environmental Management Plan is included in the EIA report. All the conditions stipulated by the MoEF&amp; CC in EC and additional conditions of NGT will be complied.</li> </ul>	<p>Water supply pipeline has been provided to the airport project. Water is being pumped into water storage tanks at site.</p> <p>No further action is required.</p> <p>No further action is required.</p> <p>An Aviation Skill Development Centre (ASDC) has been set up at the airport.</p> <p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	<ul style="list-style-type: none"> <li>• Stated that there should be adequate safeguards during construction of the airport to protect the environment.</li> <li>• Stated that compensation to the affected farmers/landowners should be adequate.</li> <li>• Stated that the airport which will be constructed is a Greenfield airport. Stated that the airport is required for development of the State as especially Tourism sector. Stated that the airport will create employment for the locals.</li> </ul>	<ul style="list-style-type: none"> <li>• All safety measures will be taken during construction and operation of the Proposed Mopa Airport. A detailed study on Disaster Management Plan for Airport has also been carried out and is attached along with EIA Report as Annexure VI.</li> <li>• Additional 3 times compensation is declared to the land losers.</li> <li>• The project will create employment opportunities for the locals.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p> <p>No further action is required.</p>
64	<p>Stated that due to the project and land acquired for the same he has lost all his fields and property. Stated that in spite of being an affected person, he has not been adequately compensated by the Government.</p>	<p>Additional 3 times compensation is declared to the land losers.</p>	<p>No further action is required.</p>
65	<p>Stated that the EIA report was made available in all the affected Village Panchayats. Stated that with regard to para 2.1 of the EIA report regarding air pollution he has suggestion that an independent office should be set up at Pernem to control pollution that will be caused due to operation of the project.</p>	<p>Post project monitoring will be carried out by project proponent as mentioned in EIA Report.</p>	<p>Environmental quality monitoring is being done.</p>
66	<p>Stated that he has large number of livestock including goats, cows, etc. Stated that if the project is constructed he will lose all the livestock. Stated that if the project takes place, the forest in the area will be destroyed including the unique medicinal plants available in the forests. Requested the Govt. to consider these issues.</p>	<p>The surrounding villages in the buffer areas will not be hampered by the project activities. The livestock of the surrounding villages will graze in the surrounding grassland and forests.</p> <p>The important medicinal plants, if any, found at site will be shifted to the greenbelt of proposed airport.</p>	<p>No further action is required.</p> <p>The Goa State Bio-diversity board has transplanted 20 medicinal plant species at GSBCC campus, as communicated vide their e-mail dated 04-02-2019 and letter No. 6-1-</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
			2020/GSBB/ISS/140 dated 20-07-2020.
67	<ul style="list-style-type: none"> <li>• Stated that EIA report falsely states that the plateau in question is flat and slopes on the side. The report does not state the reality as there are cashew plantations on the slopes.</li> <li>• Stated that the EIA report refers to setting up of a business center and the golf course. This needs to be clarified.</li> <li>• Stated that the data used in the report has been submitted by the project proponent. States that this is wrong as the State Government is the interested party and its data will be biased. Stated that this data should have been submitted by an independent authority like Goa University. Stated that the EIA report should have been prepared by a local college or university and not by an agency from Ghaziabad. Stated that the affected area falling in Maharashtra has not been studied in the EIA report.</li> <li>• Stated that the EIA report also mentions the names of the animals inaccurately e.g. Bengal Fox</li> </ul>	<ul style="list-style-type: none"> <li>• The land acquisition awards have covered compensation for trees including cashew plantations. The cashew plantations on the slopes outside the project area will not be affected.</li> <li>• EIA report does not refer to setting up of any business center and golf course.</li> <li>• A fresh baseline data has been collected during the period of November 2014 to January 2015. A comparative study is made and the same is depicted in EIA Report. The project proponent submitted that no further area will be acquired for the project. The project proponent submitted that a local college/university could not be permitted to prepare the EIA report as they are not MoEF/NABET accredited Consultant.</li> <li>• The Bengal Fox (<i>Vulpes bengalensis</i>) which is also known as Indian Fox mentioned correctly in the EIA report.</li> </ul>	<p>No further action is required.</p> <p>There was no such proposal at that time.</p> <p>No further action is required.</p> <p>No further action is required.</p>
68	The slopes of plateau have huge cashew plantations of nearly 40 lakh cashew trees which give income of nearly Rs. 50 crores per annum.	The EIA report already mentioned the cashew trees in the study area and there will be no impact due to project activities.	No further action is required.
69	The study has not been done in Maharashtra in the 10 km. radius of the proposed project	The study covers the ecologically sensitive parameters within 15 Kms radius and study area of 10 Kms including Maharashtra for various other parameters as per the guidelines.	No further action is required.
70	<ul style="list-style-type: none"> <li>• Stated that his land has been acquired on account of the project. Stated that he has not taken compensation offered by the Government as the same is less.</li> <li>• Stated that Water sources in the area will not be affected by the project. Stated that cultivation of cash crops i.e. cashew will not be affected by the project. Stated that this project is required for the</li> </ul>	<ul style="list-style-type: none"> <li>• Additional 3 times compensation is declared to the land losers.</li> <li>• The land acquisition awards have covered compensation for trees including cashew plantations.</li> </ul>	<p>No further action is required.</p> <p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
	development of the Pernem Taluka. Submitted that it is wrong to say that the locals of Pernem Taluka are opposed to the project.		
71	Stated that similar projects are constructed across the World without any issues, there is no reason why this project cannot be successfully implemented in Goa, after adopting adequate measures to safeguard environment in a planned manner.	The project is being implemented in a planned manner.	No further action is required.
72	<ul style="list-style-type: none"> <li>Submitted that the animals and the wild life in the proposed area need to be protected. Stated that peacocks are also present in the area which needs to be protected.</li> <li>Stated that the herbal medicines and the various plants species are available in the forests of the affected area and that these need to be protected. Submitted his objection to the project.</li> </ul>	<ul style="list-style-type: none"> <li>Wildlife management plan will be followed in consultation with State Forest Department.</li> <li>Airport Concessionaire will address wildlife hazard management as per the prescribed procedure of DGCA vide their circular No. 6 of 2017, dtd. 04<sup>th</sup>Aug, 2017.</li> <li>Indian Peafowl is found and mentioned in the EIA report. 15 Species of medicinal plant species transplanted.</li> </ul>	<p>Forest Department, Government of Goa has approved the Wildlife Management Plan vide letter No. 134/DOCA/EC/WMP/2020/1991 dated 27-08-2020.</p> <p>Bird Aircraft Strike Hazard Management (BASHM) cell has been set up to address the same.</p> <p>No further action is required.</p>
73	<ul style="list-style-type: none"> <li>Stated that the sewage water generated from the project will enter the Chandel Village.</li> <li>Stated that the youth of the affected village are not educated and the government will have to explain as to how these uneducated youths will get employment in the airport project. Stated that the Airport is of the Central Government Project and not the State Government project. Stated that if agriculture is destroyed due to the project and the youth are unable to get employment then they will not survive in the future.</li> </ul>	<ul style="list-style-type: none"> <li>A STP will be established during construction phase of the project itself and the same will be extended for operation phase of the Airport. Thereby no sewage will enter Chandel Village.</li> <li>1 person each from the displaced families has been provided employment by the Concessionaire. As per the Concession Agreement, the Concessionaire is obligated to give preference to bonafideGoans in employment. The Concessionaire is obligated to setup an Aviation Skill Development Centre to provide training to the local youth to become employable.</li> </ul>	<p>STP has been established and in operation.</p> <p>No further action is required.</p>

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Oral)	Responses submitted to EAC	Status
74	<ul style="list-style-type: none"> <li>• Stated that the solid waste management facility of the project will have to be studied in detail and strictly implemented in order to control the solid waste generated from the project.</li> <li>• Further stated that the project will have to be studied in detail and strictly implemented in order to control the solid waste generated from the project.</li> </ul>	<ul style="list-style-type: none"> <li>• Solid waste collected during operation phase will be disposed in disposal facility owned by Government of Goa.</li> <li>• Hazardous waste management: From Airport, used oil, lubricants, electronic wastes shall be generated and the same shall be disposed through SPCB authorized re-processor. Used batteries will be given to dealer as part of buy back arrangement.</li> </ul>	<p>Integrated Solid Waste Management Plan approved by Goa State Pollution Control Board is being implemented.</p> <p>Integrated Solid Waste Management Plan approved by Goa State Pollution Control Board is being implemented to address.</p>
75	Submitted his total support to the project. Stated that various objections raised by the public at the hearing will have to be considered by the government	Noted	No further action is required.
76	Stated that it is the first time in Goa that such an efficient and successful public hearing has been conducted. Stated that this public hearing has enabled the affected people to place their views before the committee	Noted	No further action is required.

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Written submission)	Responses submitted to EAC	Status
01	Proposed Mopa airport location consists of Agricultural lands owned by locals.	As per Land use map of Goa State, Remote sensing center, proposed Airport location is covered with 55% scrubs, 8% scrub forest, 22% Barren rocky area. Only 15 % is covered with Kharif& Plantations.	No further action is required.
02	Mopa Plateau contains huge water store & springs. Construction of Mopa Airport would permanently destroy the ground water store and run the dependent water bodies dry's.	Present Ground water level at Mopa is 5 – 10 mbgl (Annexure IV). To maintain the recharging of Ground water level after construction of the proposed Airport a Rain Water Harvesting system as given in Annexure II & III of EIA Report will be developed. The runoff inside the Airport area will be collected through storm water drains and will be routed to the nearest surface water body. There by, there will be no impact on ground & surface water resources.	The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels. The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.
03	The springs of Shedichozoro, Nanyache and Vazar provide perennial drinking water		
04	The spring near Rastolider temple provide perennial drinking water		
05	What is the plan for ground water replenishment		
06	Tulaskarwadi is located adjoining major perennial springs along the steep slopes of a valley. Water of perennial springs is used for drinking and irrigation		
07	No hydrological studies have been carried out by the project proponent		
08	The report does not mention even a single perennial source of water from Plateau.		
09	Tillari which is to provide water for irrigation purposes is proposed to provide water construction of Airport. This will cause tremendous water shortage	Mopa Airport will consume water only within the permissible limit	No further action is required.

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Written submission)	Responses submitted to EAC	Status
10	Need to know long term measures on wildlife	Wildlife management plan will be followed in consultation with State Forest Department	Forest Department, Government of Goa has approved the Wildlife Management Plan vide letter No. 134/DOCA/EC/WMP/2020/1991 dated 27-08-2020.
11	In Mopa, there exists wide range of butterflies, moths, insects, reptiles, birds & mammals.		
12	The collection of fodder from plateau which is a major economic activity on the plateau is missed in the report. Livelihood and business will be damaged if the fodder supply is stopped on account of construction of the airport.	The Project will have multiplier effect on the economy of the state generating significant employment and allied economic opportunities, which will benefit the local population in particular and Goans in general	No further action is required.
13	Time period for biological survey should be one year	Survey was conducted for one season as per approved TOR	No further action is required.
14	IUCN Status of floral species not mentioned	Considering the IUCN status evaluation has been done	No further action is required.
15	Accidents of bison in study area	Evaluation of impacts has been done considering all relevant human activities during both construction and operation phases	No further action is required.
16	Listing of schedule, I / II species	Based on survey all relevant species are included.	No further action is required.
17	Ignorance of grazing ground	1 person each from the displaced families has been provided employment by the Concessionaire. 14 Project Affected families have been rehabilitated with a house, cowshed to each family and common area for grazing of livestock	No further action is required.
18	Listing of ecological sensitive zone of Mopa	The Mopa Airport project area is not identified as Ecologically Sensitive Zone	No further action is required.
19	Airport construction will destroy the medicinal plants	Some species of medicinal plants have been conserved and planted in the campus of Goa state biodiversity board	No further action is required.



## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Written submission)	Responses submitted to EAC	Status
20	No hydrological studies have been carried out by the project proponents'	Detailed hydrological assessment in terms of catchment area mapping estimation of runoff is included	No further action is required.
21	What is the plan to ensure the permanent protection of forest ?	For construction of airport, 54,176 trees have been felled by taking necessary permission from competent authority and 500 trees are identified for transplantation. Afforestation of 10 times the number of trees felled is planned over a period of 5 years, which will enhance the overall green cover of the state. A Budget with capital & Recurring cost is also considered for executing the Environmental Management Plan and is mention in section 10.5 of EIA Report.	Plantation of 5 lakh saplings by Goa State Bio-diversity Board has been completed. In addition, plantation of 51,000 saplings has been completed within the airport site.
22	Destruction of Religious sites	No religious site will be destructed. Considering religious sentiments, the sacred groove (Barazan) is protected and kept out of the project boundary ensuring unhindered access to the villagers	No further action is required.
23	Water management for project is not convincing. When existing water supply not sufficient How it can be used for Airport	Rain water harvesting system will be adopted to maintain the water balance.	The rain water harvesting has been implemented as per revised Plan approved by Water Resources Department (WRD) vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021.
24	Tillari irrigation canal belongs to the farmers and cannot be diverted to other uses under any circumstances	No objection certificate from GOG dated 30.01.2015 to withdraw 5 mld of water from Right Bank Main canal of Tillari Project is attached.	Water supply pipeline has been providedto the airport project.Water is being pumped into water storage tanks at site.
25	The report states that the land use around the plateau is mostly nonagricultural but it is completely agricultural land.	As per Landuse map of Goa State Remote sensing center, proposed Airport location is covered with 55% scrubs, 8% scrub forest, 22% Barren rocky area. Only 15 % is covered with Kharif& Plantations.	No further action is required.
26	The study of land use of the entire study area is not carried out		

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Written submission)	Responses submitted to EAC	Status
27	What will happen to bauxite deposits?	NOC has been obtained from Mining department for construction of airport	No further action is required.
28	Most important religious site like Barazan, DattatreyaDevasthan etc. will be destroyed	No religious site will be destructed. Considering religious sentiments, the sacred groove (Barazan) is protected and kept out of the project boundary ensuring unhindered access to the villagers.	No further action is required.
29	We are connected with the neighboring village of casarvanem, chandel, Hali, Mopa, Tambose, Ugeum etc. If Airport is constructed, these traditional paths are closed and our economic and social exchanges will be severely affected	No connectivity will be spoiled due to development of Airport. Instead, an approach road from NH-17 to Mopa Airport Site has been proposed.	Ministry of Road Transport & Highways (MoRTH), Government of India (GoI) has notified the approach road connectivity to airport as a National Highway (NH) No. 166S, vide Gazette Notification dated 23-09-2020. Dedicated 6 lane access control expressway connectivity is constructed & operational.
30	The executive summary is supposed to provide the overall justification for implementation of the project and its mitigation measures.	Executive summary includes environmental impacts and mitigation measures	No further action is required.
31	Baseline data collected was three years older	A fresh baseline data has been collected during the period of November 2014 to January 2015. A comparative study is made and the same is depicted in EIA Report.	No further action is required.
32	Baseline should have been conducted over a period of at least one year	As per Airport Guidance Manual, one season data other than monsoon is acceptable	No further action is required.
33	EIA consultant neglected their professional duties by accepting data collected by a laboratory which is not authorized to collect	M/s. EMTRC Lab had collected the baseline and it was accredited during the period of study.	No further action is required.

## COMPLIANCE STATUS OF CONCERNS RAISED DURING PUBLIC HEARING

### GREENFIELD INTERNATIONAL AIRPORT, MOPA, GOA

No	Public Hearing (Written submission)	Responses submitted to EAC	Status
34	Airport is proposed within western Ghats which is already divested	The present proposed airport site is falling under Pernem taluka of North Goa district. The Pernem taluka has not been included in the Ecologically Sensitive Areas submitted by HLWG.	No further action is required.
35	The report does not consider the impact of waste water generated during construction phase	STP shall be developed during construction phase itself and will be upgraded to design capacity of each phase.	STP has been established & in operation.
36	No estimates are provided for the amount of cutting and filling	~ 11.7 million CUM cut & 10.0 million CUM fill (cut & fill put together)	No further action is required.
37	EIA Study has not been conducted in the area falling state Maharashtra	The study covers the ecologically sensitive parameters within 15 Kms radius and study area of 10 Kms including Maharashtra for various other parameters as per the guidelines.	No further action is required.
38	EIA Report states biological study is conducted based on secondary sources. No reference for the same is provided in the report.	References are included in the final EIA Report	No further action is required.
39	No geological study has been conducted	Geotechnical studies, Aerial Lidar & Physical survey of the project site completed	No further action is required.
40	Insufficient data on micro meteorology. The data is needed for at least 5 years with a time daily record in time series method.	Primary meteorology data has been used for the study	No further action is required.
41	There is no data in six affected villages of Varconda, Casarvanem, Amberem, Uguem, Mopa and Chandel as per census 2011	Census of the complete Goa is considered in the study	No further action is required.
42	ShemecheAdvan has 34 homes all of which lie within the valley surrounding the springs. The construction of airport will totally displace all of the residence due to the loss of springs, loss of agriculture	<ul style="list-style-type: none"> <li>Natural channels of water flow feeding the water bodies will not be disturbed by suitably channelizing the water flow at the project site.</li> </ul>	The Storm water drainage has been implemented as per revised plan approved by WRD vide letter No. 9/3/EO/WRD/2020-21/527 dated 10-02-2021, to channelize the storm water runoff outflow from airport site connected to natural water channels.

**ANNEXURE – 4**

**ENVIRONMENTAL EXPENDITURE**  
**DURING PERIOD OF APRIL 2024 TO SEPTEMBER 2024**

*Note: All cost expenditures are in INR Crore.*

No.	Particulars	Total EXPENSES during Apr 2024 to Sep 2024 (in INR Crore)
1	AAQ & Noise Levels Monitoring (in Goa & Maharashtra States including CAAQMS)	0.258
2	Indoor Air Quality Monitoring	0.012
3	Dust suppression through tankers	0.050
4	O&M of 150 KLD labour colony STP	0.200
5	Occupational health surveillance of workmen	0.028
6	Environment Management Cell (EMC) set up	0.028
7	Hazardous Waste Management	0.003
8	Solid Waste Management	0.998
9	Construction Debris Management	0.559
10	Vacuum Tanker (Portable toilets at site)	0.294
11	Environmental Compliance Monitoring by NEERI	0.201
12	Aviation Noise Monitoring Terminal units (NMT)	0.145
13	O&M of 625 KLD STP & WTP	0.301
14	Landscaping & Horticulture	7.571
15	Miyawaki Tree Plantation	2.232
16	Miscellaneous	0.144
	<b>TOTAL</b>	<b>13.024</b>

RANGANATHAN VENKATASHESHAN  
Digitally signed by RANGANATHAN VENKATASHESHAN  
 DN: c=IN, o=Personal, postalCode=562157, st=Karnataka, serialNumber=2C9AC6829383C455D089051156AC282D0674042FFDC08889EC9B624F81F9BEA0, cn=RANGANATHAN VENKATASHESHAN  
 Date: 2024.11.29 +05'30'

## **ANNEXURE – 5**

### **Environmental Statement for FY 2023-2024 in Form-V**

GOA Goa State Pollution Control Board

## Online Consent Management & Monitoring System

Ministry of Environment, Forest and Climate Change  
Government of India




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Send us your **feedback and suggestions**

click here for any kind **complaints or query** ↓

Welcome GMR Goa International Airport Limited Date : 28.8.2024

**Application No : 2390572**



You have successfully submitted Environmental Statement for this duration 2023-2024.  
View Environment Statement

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GOA Goa State Pollution Control Board

## Online Consent Management & Monitoring System

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Welcome GMR Goa International Airport Limited Date : 28.8.2024

**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
<a href="#">2390572</a>	GMR Goa International Airport Limited	2023-2024	NORTH GOA	2022	2024-08-28 17:19:48.927			Not Mention Yet	<a href="#">View Document</a>
<a href="#">1904981</a>	GMR Goa International Airport Limited	2022-2023	NORTH GOA	2022	2023-09-14 10:41:25.944			Not Mention Yet	<a href="#">View Document</a>



## 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 : Manohar International Airport, Goa started scheduled commercial operations from 5th January 2023
- (v) Date of the last environment statement submitted : 14/09/2023

#### PART B

##### 1. Water consumption m<sup>3</sup>/ 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 Operation and Maintenance	1,605 KLD (Including domestic, cooling, flushing & irrigation during the period from 5th January 2023 to 31st March 2023)	1,254 KLD (Including domestic, cooling, flushing & irrigation during the period from 1st April 2024 to 31st March 2024)

##### 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
Nil	Nil	Nil	Nil

\*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.

<b>Pollution</b>	<b>Quantity of pollutants discharged(mass/day)</b>	<b>Concentration of pollutants in discharges(mass/volume)</b>	<b>Percentage of variation from prescribed standards with reasons</b>
<b>Water</b>			
Water	Nil	Airport adopted Zero Liquid Discharge Policy. Entire sewage/effluent is treated in 625 KLD sewage treatment plant established within the airport premises.	0% variation from the prescribed standards. Sewage/effluent quality is monitored through MoEF&CC approved environmental laboratory. Environmental quality monitoring reports are attached as Annexure-I
<b>Air</b>			
Air	Details are provided in the Annexure-II (attached). All three Diesel Generator sets (stack height of 30 m) are used as a standby for emergency purpose.	Details are provided in the Annexure-II (attached). The concentration of the pollutants are well within the GSPCB permissible norms.	0% variation from the prescribed standards. DG sets stack emission parameters are monitored through MoEF&CC approved environmental laboratory. Reports are attached as Annexure- I.

Name of Pollutants : Not Applicable.

## PART D

### Hazardous Wastes

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

<b>Hazardous Wastes</b>	<b>Total Quantity (Kg)</b>	
	<b>During the previous financial year</b>	<b>During the current financial year</b>
<b>(a) From process</b>	Nil	2000 kg (Including Cat. 5.1, 33.1 and 33.2)
<b>(b) From pollution control facilities</b>	NA	NA

## PART E

### Solid Wastes

	<b>Total Quantity</b>	
	<b>During the previous financial year</b>	<b>During the current financial year</b>



(a) From process	22,510 Kg during the period from 5th January 2023 to 31st March 2023 (Food Waste, Plastic, Metal, Glass, Paper, etc. from airport operations)	1,18,275 Kg during the period from 1st April 2023 to 31st March 2024. (Food Waste, Plastic, Metal, Glass, Paper, etc. from airport operations)
(b) From pollution control facility	NA	NA
(c)(1) Quantity recycled or re-utilised within the unit	14,610 Kg (Food waste converted as compost)	79,441 kg (Food waste converted as compost)
(2) Sold	7470 kg (plastic, paper, metal and glass scrap sold to authorized recyclers)	34,270 kg (plastic, paper, metal and glass scrap sold to authorized recyclers)
(3) Disposed	430 kg (Refused Derived Fuel disposed to Goa Waste Management Corporation)	4,564 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 Total 2000 kg of hazardous waste was generated (including cat. 5.1, 33.1 & 33.2) during FY 2023-24.

Arrangement has been made for the storage and disposal of category-wise hazardous wastes (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 FY2023-24 is as below:

Total Bio-degradable/Food Waste (79,441 Kg) processed through Organic Waste Composter and used as manure within airport premises.

Total Non-Biodegradable Recyclable Waste (34,270 Kg) sent to the authorized recyclers for recycling.

Total Non-Biodegradable non-recyclable waste (4,564.20 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 sewage/effluent has been recycled & reused for toilet 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 FY2023-24.

## 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 & Electric Vehicles for waste collection. The entire solid waste management is being managed through a professional third party waste management agency.

Night Soil Pit is provided on the airside for collecting sewage from Aircrafts, which is further pumped to 625 KLD STP for treatment and recycling. Airside Waste Transfer Station has been established on the airside to collect solid waste from aircrafts.

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, avenue plantation, landscaping, etc. has been provided.

Passenger Terminal Building has been designed and constructed as per Green Building concepts, which is certified with IGBC Platinum Standard.

## **PART I**

Any other particulars for improving the quality of the environment GGIAL along with the stakeholders have adopted following measures to improve the quality of environment.

- 5 MWp Solar Power Plant is installed & operational within the Airport Premises.
- Use of Bridge Mounted Equipment (Pre-Conditioned Air and Ground Power Unit)
- 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 number 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 : GGIAL's Passenger Terminal Building (PTB) is awarded with Platinum Standard 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.)

GGIAL is awarded with Construction Industry Development Council's under Planning Commission (NITI Aayog), GoI - 14th Vishwakarma Awards 2023 under the categories of "Best Construction Project" and "Construction HSE Award".

GGIAL is awarded with 21st Annual Greentech Safety Award 2023 by Greentech Foundation, New Delhi under the category of "Construction Safety".

GGIAL received Plaque of Excellence in recognition of being adjudged 2nd Place in the "Best Environmental Practices" Competition organised by Goa State Pollution Control Board (GSPCB) on the occasion of World Environment Day, 5th June 2023.

GGIAL received International Airport Review's The Sustainable Airport Award 2023 (Highly Commendable) under "Strategy, Culture & Ethos" Category during International Airport Summit- 2023 at London, UK.

GGIAL is recognised with Health & Safety Excellence Award (Both Construction & Operation Phase) by

M/s. NIIFL (equity partner/investor) during NIIF Annual Environment & Social Summit- 2024 at Faridabad.  
GGIAL is recognised with Indian Green Building Council (IGBC) Green Building Certification by GSPCB  
in 2nd International Environment Sustainability Summit Goa (IESSG)- 2024.