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To,

The Additional Principal Chief Conservator of Forest (C) Ministry of Environment, Forest & Climate Change,

Regional Office (SZ), 4th Floor, E&F Wing, Kendriya Sadan, Koramangala, Bengaluru - 560034

Date: 10th November 2023 Ref: GGIAL/MoEF&CC-EC/2023-2024/1839

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 2023 to September 2023.

Name of the Project: Greenfield International Airport at Mopa, Goa. EC File No. : F.No.10-29/2011-IA.III dated 28th October 2015

Ref: 1. Original EC vide letter No. F.No.10-29/2011-IA.III dated 28th October 2015 2. Hon'ble Supreme Court of India's Order dated 16th January 2020 3. Addendum to Original EC dated 13th 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 2023 to September 2023. Scheduled domestic & international commercial operation commenced on 5th January 2023 and 21st July 2023 respectively.

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).

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

Thanking you,

Yours Sincerely,

for GMR Goa International Airport Limited Dignate signation to star where the start of the second starts and RANGANATHAN OH CON IN Personal provid Code (April 2) VENKATA

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Enclosure: As above

Chief Executive Officer

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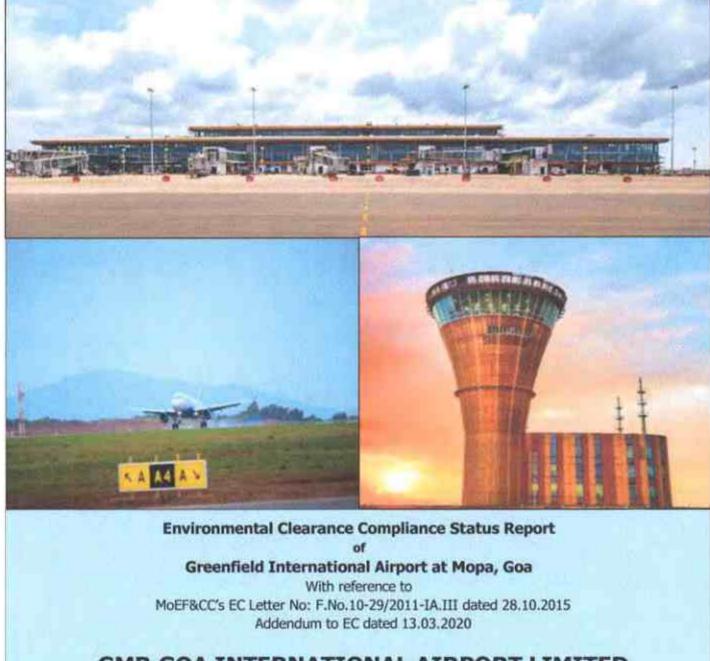
- 1. The Director, MoEF&CC, GOI, Indira Paryavaran Bhawan, CGO Complex, New Delhi 110 003
- 2. The Member Secretary, CPCB, Parivesh Bhavan, East Ariun Nagar, New Delhi 110 032.
- The Member Secretary, Goa State Pollution Control Board, Saligao, Goa 403 511
- The Director, Directorate of Civil Aviation,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





HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(Period: April 2023 to September 2023)



GMR GOA INTERNATIONAL AIRPORT LIMITED

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		Point-wise compliance	
No.	Reference No.	Conditions	Compliance
Conditi	ons of EC dat	ed 28/10/2015	
1.	4 (A) (ī)	'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 Establish was obtained from Goa State Pollution Control Board (GSPCB) GGIAL has declared 7 th December 2022 a Non-Scheduled Commercial Operatio Date (COD). Further, GGIAL has declare 5 th January 2023 as a Schedule Commercial Operation Date (COD and commenced the operation phase. Consent to Operate (CTO), vide letter Not 2/2022-PCB/1322094/R0008891 date 20/10/2022, superseded by CTO vide letter No. 12/2023-PCB/1617143/R0001176 dated 13/04/2023 which is valid to 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.	As per Concession Agreement (CA), this i being addressed by the Government of Go (GoG),
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.	As per CA, this is being addressed by GoC The construction work is in progress and being executed through State PWD, GoG.

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No.	Reference No.	Conditions	Compliance
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. The engineering design & drawings of the drainage system have been approved by Water Resources Department, (WRD), GoG. Channelization of storm water in- between the Runway and Parallel Taxiway is completed, which is connected to Outfall # 2.
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 and Complied, (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
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. The 625 KLD STP is commissioned and currently in operation. Sewage and other liquid effluent is being treated by STP and 100% treated effluent is being reused and recycled. 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 drinking water at	Complied. All solid waste is collected, segregated, and disposed of according to the provisions of Solid Waste (M&H) Rules, 2016.



No.	Reference No.	Conditions	Compliance
		convenient places for passengers and also at the cafeterias as to reduce the generation of solid wastes including PET bottles.	Integrated Solid Waste Management Facility (ISWMF) has been set up within the airport complex to handle all solid wastes through a dedicated third-party Waste Management Agency. Drinking water fountains has been provided for passengers in Passenger Terminal Building (PTB).
8.	4 (A) (viii)	Installation and operation of DG sets shall comply with the guidelines of CPCB.	Complied. Installation & Operation of DG sets is in compliance with the CPCB guidelines. Standby DG Sets of 2000 KVA x 3 Nos, are installed at the airport and CTO for the Airport consists of DG Sets as well, which is valid till 01/08/2027.
9.	4 (A) (b)	Parking provision shall be provided according to the National Building Code of India, 2005.	Complied. Parking provision has been provided within the airport premises according to the National Building Code 2005.
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. Water conservation fixtures are installed. water balance is being maintained.
11,	4 (A) (xi)	Necessary permission shall be obtained for drawing of ground water from competent authority prior to construction / operation of the project.	Complied. Permission has been obtained from WRD, Goa.

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No.	Reference No.	Conditions	Compliance
			(Refer Annex – 4 of Half yearly E0 compliance submitted vide letter no GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
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.	Mopa Airport Development Authority (MADA), GoG is the designated regulatory body to control the unauthorized development around the Airport complex GGIAL has communicated to MADA vide letter dated 24/02/2021 for land use regulation around the airport complex.
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.	Noted. Compliance will be ensured when hangers are constructed and operated in future.
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 to recharge ground water.
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, Energy conservation, water conservation (reuse / recycle, rainwater harvesting and water efficient fixtures) and other green building practices for various buildings are incorporated within the airport complex ECBC Guidelines have been followed to achieve energy efficiency.

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No.	Reference No.	Conditions	Compliance
			Passenger Terminal Building (PTB) has been certified with Indian Green Building Council (IGBC) Platinum Rating by Confederation of Indian Industry (CII) vide IGBC Registration No. NBO 19 0084 dated 10/12/2022, which is valid for 3 years from the date of certification.
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.	As per CA, this is being addressed by GoG
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 Annexure – 1A for Construction Phase and Annexure – 1B for Operation Phase.
18.	4 (A) (xviii)	The responses / commitments made during public hearing shall be complied with in letter and spirit.	Complied. Responses / commitments made during public hearing have been addressed and complied.
19.	4 (A) (xix)	Project Proponent shall install noise level display system. Noise level shall be monitored regularly in all seasons (different	Complied.

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No.	Reference No.	Conditions	Compliance
		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.	A noise level display system has been installed within the airport premises. Scheduled commercial airport operation commenced on S th January 2023. Ambien noise levels monitoring is being conducted by MoEF&CC approved and NABL accredited Environmental Laboratory Noise level monitoring reports are enclosed in Annexure-2.
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 th June, 2008.	Complied. 2 Nos, of Noise Monitoring Terminal (NMT) have been installed and commissioned at the two locations in the approach funnel zone of airport, duly approved by DGCA and GSPCB.
21.	4 (Å) (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. Major construction activities have been completed. An Integrated Wast Management Plan for Operation Phase ha been prepared and approved by GSPCB The same is being implemented.
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 have been disposed-of to GSPCB authorized recyclers. Major construction activities have been completed and the airport is Operational.

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No.	Reference No.	Conditions	Compliance
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.	EC obtained from MoEF&CC on 28 th October 2015 before starting the construction and the Addendum to EC was granted on 13 th March 2020. Consent to Operate (CTO), vide letter No. 2/2022-PCB/1322094/R0008891 dated 20/10/2022, superseded by CTO vide letter No. 12/2023-PCB/1617143/R00011760 dated 13/04/2023, which is valid till 01/08/2027. Scheduled commercial airport operation commenced on 5 th January 2023.
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. Environmental Management Cell has been set up under the supervision of a Senior Executive designated as Vice President & Head – EHS & Sustainability.
		Corporate Environment Responsibility: a) The Company shall have a well laid down Environment Policy approved by the Board of Directors.	Complied. Environment Policy approved by Board of Directors is in place.
25,	4 (A) (xxv)	b) The Environment Policy shall prescribe for standard operating process/procedures to bring into focus any infringements/ deviation/violation of the environmental or forest norms/ conditions.	Complied.



	No.	Reference No.	Conditions	Compliance
			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.
	8,	GENERAL C	ONDITIONS:- EC dated 28/10/2015	
	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. Major construction activities have been completed. Scheduled commercial airport operation commenced on 5 th January 2023. Labor colony, within project site, with all necessary infrastructure and facilities was provided. Labour strength has come down substantially and partly labour colony is decommissioned.
	27.	4 (B) (ii)	A First Aid Room will be provided in the project both during construction and operation of the project.	Complied. First Aid Centre was provided during construction phase. Fully equipped Airport Medical Centre (AMC) with the necessary medical staff has been provided at PTB for the operation phase of the airport.
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No.	Reference No.	Conditions	Compliance
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. The excavated topsoil was stored a designated locations within the site and the same has been completely utilized for landscaping and horticulture purposes within the airport premises.
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. Excavation and filling activities for airport project have been completed. The entire quantity of excavated earthwork has been utilized for filling & leveling within the airport project site.
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. Low Sulphur diesel conforming to BS VI was used in DG sets during the construction phase, for which PESO license for storage of HSD was obtained. The same is complied with and implemented for Operation Phase also.
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.

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No.	Reference No.	Conditions	Compliance
			Vehicles hired for bringing construction material to the site were in good condition and carried Pollution Under Control (PUC certificate and conformed to applicable ai and noise emission standards, during construction phase. (Sample is enclosed in Annexure-1A). Vehicles bringing construction materials were using National Highway (NH) and State Highway (SH) roads, to reach out to the Mopa project site. There is no restriction imposed w.r.t. peak and non peak hours for NH and SH roads by Centra Govt. & State Govt.
32.	4 (B) (vii)	Fiy 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 th August, 2003.	Complied, Fly ash was used in Ready Mixed Concrete (RMC).
33.	4 (B) (viii)	Ready mixed concrete must be used in building construction.	Complied, Ready Mixed Concrete (RMC) was used in all building construction.
34,	4 (B) (ix)	Storm water control and its re-use as per CGWB and BIS standards for various applications.	Complied. This has been implemented as per the approval from WRD, GoG.

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No.	Reference No.	Conditions	Compliance
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. Curing agents were used. All concrete works were done with pre-mixed concrete i.e. RMC only. Major concrete work has been completed. Currently, Airport is operational.
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. The buildings are incorporated with dual plumbing system.
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. The glazing work are installed in PTB and Air Traffic Control (ATC) tower buildings with double glass unit with reflective coating as per IGBC guidelines.
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, Roof work has been carried out as per ECBC / IGBC Guidelines with appropriate thermal insulation. PTB has been accorded with IGBC Platinum Certificate from CII.
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. The work has been executed as per ECBC / IGBC Guidelines.
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No,	Reference No.	Conditions	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.	Compliance, as applicable for the safe operation of the airport as per DGCA guidelines, will be ensured.
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.	Complied. Traffic congestion near the entry & exit points from the roads adjoining the airport is avoided with involvement of GoG authorities. Earmarked Parking has been provided within the airport premises.
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. Construction of the structures have been undertaken as per the plans approved by MADA, GoG.
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. Statutory approvals of approved quarries from where construction materials were sourced are submitted, (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021- 2022/0688 dated 24/05/2021).
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. Major construction / excavation / filling activities have been completed. Currently excavation/filling activity is being carried out for spine road by addressing all environmental aspects.



	No.	Reference No.	Conditions	Compliance
		_		Refer Annexure- 1A
	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.	Noted.
	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 compliance report highlights the status of implementation of the stipulated conditions submitted within stipulated timelines. Monitoring is being conducted by MoEF&CC approved and NABL accredited Environmental Laboratory. Monitoring reports of Ambient Air Quality (AAQ), Water, and Noise levels conducted during April 2022 to September 2023 are enclosed in Annexure – 2 .
	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.
1	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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No.	Reference No.	Conditions	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.	 Financial Closure for the project has been achieved on 7th July 2017. The approval of the project was obtained from the Directorate General of Civil Aviation (DGCA), GoI, New Delhi vide their letter no. AV.20024/17/00-AL dated 27th July 2017. Land development work started and the same have been communicated to MoEF&CC (Letter submitted to Regional Office of MoEF&CC vide letter no. GGIAL/MoEF&CC/ 2018/0194 dated 26th February 2018). The above details have been further submitted to Regional Office, MoEF&CC and MoEF&CC, New Delhi vide our letter No. GGIAL/MoEF&CC-EC/2020-21/0519 dated 13th August 2020.
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.



No.	Reference No.	Conditions	Compliance
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 2023 to September 2023 is enclosed as Annexure – 3 .
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.	Relevant environmental acts and rules are being complied with.
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.	Complied. Necessary approvals from the concerned authorities have been obtained as applicable. A list of various statutory clearances / permits / approvals related to the Environment, obtained or applicable to the airport project have been submitted (Refer Annexure – 4 of previous Half yearly EC compliance reports submitted earlier).

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No.	Reference No.	Conditions	Compliance
			List of approval / clearances / permits obtained during April 2023 to September 2023 is enclosed as Annexure-4.
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 http://www.envfor.nic.in . 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 forwarded to the Regional Office of this Ministry.	Complied. EC was published in Tarun Bharat and Navhind Times on 31 st August 2015.
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. All stipulated environmental conditions and environmental safeguards are being compiled in Half Yearly EC Compliance Report and the same is being uploaded on company website of GGIAL.
59,	10	Any appeal against this environmental clearance shall lie with the National Green Tribunal, if preferred, within a period of 30	Noted.

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No.	Reference No.	Conditions	Compliance
		days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	
60.	11	The environmental statement for each financial year ending 31 st 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.	Statement for temporary construction plants viz., Hot Mix Plant, Batching
Addition	al NGT Cond	litions vide NGT order dated 21/08/2018	
	A	Air Environment	
		Total Suspended Particulate Matter (SPM), Respirable	Complied.

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No.	Reference No.	Conditions	Compliance
		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 CPCB server and capable of monitoring all relevant and critical parameters and mitigation measures taken.	been installed and commissioned at GSPCE approved location.
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 least 3 (three) more locations falling in the State of Maharashtra be also monitored and documented.	Complied. Report of AAQ monitoring conducted a additional 3 locations in the State o Maharashtra is enclosed as Annexure - 2
	В	Water Environment	
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. The rainwater harvesting plan have been revised and also approved by WRD, Goo vide letter No. 9/3/EO/WRD/2022-23/59 dated 26-05-2022. The rainwater harvesting structure have been implemented in accordance with the WRD approved drawings.
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. Water Quality Monitoring is being carried out on monthly basis. Monitoring report for the same are enclosed in Annexure-2

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No.	Reference No.	Conditions	Compliance
	С	Noise Environment	
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. Noise levels monitoring at 12 locations in and around the airport premises is being carried out by MoEF&CC approved Environmental Laboratory. Noise Monitoring reports are enclosed in the Annexure-2.
66.	2	Integrated Noise Model (INM) be more frequently used and mitigation undertaken during the operational phase of project at regular intervals.	Complied. Aviation Environment Design Tool (AEDT) which is an integrated Noise Model is being used for Airport Noise Zone Mapping planning and mitigation measures.
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 failing in the State of Maharashtra be also monitored and documented.	Complied. Noise Monitoring at additional 3 location in Maharashtra State is being carried out by MoEF&CC approved laboratory. Noise monitoring reports are enclosed in Annexure-2.
	D	Land Environment	
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	Complied. All major construction activities have been completed. Secondary containment of adequate capacity was provided at bulk bitumen

Page 19 of 414



No.	Reference No.	Conditions	Compliance
		related wastes. Littering on sites and beyond the sites needs to be adequately prevented and controlled.	HSD and LDO storage tanks during the construction phase.
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. Major construction activities have been completed.
70,	3	Soil conservation and stabilization measures needs to be undertaken by deploying both mechanical and bio-engineering methods.	Complied, Soil stabilization is ensured by providing geotextile materials on slopes Gabion walls are provided as a soil retaining structures wherever required.
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. Framework for remediation, restoration and compensation for any unlikely event of environmental or project-related disasters has been prepared.
	E	Biological Environment	
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.	Complied. Efforts have been made to successfully translocate 500 nos. of trees within airport project premises.
73.	2	Efforts be made to plant indigenous species which are tall in size rather than small saplings.	Complied. Efforts have been made to plant indigenous tree species which are tall in size, at airport landside avenue plantation areas.

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eference No.	Conditions	Compliance
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.	Complied. Dipcadi Concanense is conserved in a forest conservatory by Forest Department. GoG,
F	Socio-economic Environment	
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 to any disasters both man-made or natural.	Complied. For the construction phase of the project 'Onsite Emergency and Disaste Management Plan' was prepared and implemented. For the operation phase of the airport 'Airport Emergency Response Plan' has been prepared and implemented at the airport. Emergency response drills were conducted during Construction phase and Operation Phase as well.
2	Although 'Disaster Management Plan' as Annexure-II is part of EIA Report under the Sub head 1.2.1- National Disasters needs	Complied. For the construction phase of the project, 'Onsite Emergency and Disaster
	3 F	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. F Socio-economic Environment 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 to any disasters both man-made or natural. 1 Although "Disaster Management Plan' as Annexure-II is part of



No.	Reference No.	Conditions	Compliance
		further elaboration especially in terms of Emergency Response Measures, Rules and Responsibility, Mitigation, etc.	Management Plan' was prepared and implemented with adequate Emergency Response Drills. For the operation phase of the airport, comprehensive 'Airport Emergency Response Plan' has been prepared and implemented at the airport.
Addend	um to EC dat	ed 23 rd March 2020	
i	I	Statutory compliance	
77.	(1)	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.	The second s
.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. Consent to Operate has been obtained from GSPCB. The same is valid till 1 st August 2027.
79.	(38)	The project proponent shall obtain necessary permission from the competent authority for drawl of water from Tillari Irrigation Canal.	Complied. Permission has been obtained from WRD, GoG for drawl of water from the Tilari irrigation Canal.

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No.	Reference No.	Conditions	Compliance
			(Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24 th May 2021).
	п	Air quality monitoring and preservation	
80.	(1)	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 ₁₀ and PM ₂₅ in reference to PM emission, and SO ₂ and NOx in reference to SO ₂ and NOx emissions) within and outside the airport area covering upwind and downwind directions.	Complied. Ambient Air Quality Monitoring for common / criterion parameters relevant to main pollutants released (e.g. PM ₁₀ and PM _{2.5} in reference to PM emission, and SO ₂ and NOx in reference to SO ₂ and NOx emissions) within and outside of the project area is being carried out through MoEF&CC approved laboratory. The AAQ Monitoring report is enclosed as Annexure - 2.
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. Dust mitigation measures on unpaved areas are undertaken and details are enclosed in Annexure-1A.
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	Compliances are being ensured. Details are enclosed in Annexure-1A
83.	(iv)	The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.	Compliances are being ensured. Details are enclosed in Annexure-1A

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No.	Reference No.	Conditions	Compliance
84.	(v)	Excavated materials shall be handled and transported in a manner that they do not cause any air pollution.	Compliances are being ensured. Details are enclosed in Annexure-1A
85,	(vi)	The soil/construction materials carried by the vehicle should be covered by impervious sheeting to avoid leaking of the dusty materials,	Compliances are being ensured. Details are enclosed in Annexure-1A
	III	Water quality monitoring and preservation	
86.	(1)	Appropriate drainage channels need to be designed to take care of the water flow into the nearest water courses/rivers, etc.	Complied. Drainage channels have been provided as per approval from WRD, GoG.
87.	(11)	It should be ensured that sustainable water flow in the various channels of watershed in the plateau is maintained.	Compliance ensured. Sustainable water flow in various channel of watershed in the plateau is maintained by providing storm water drainage system Drainage plan have been approved by WRD, GoG vide letter No 9/3/EO/WRD/2022-23/59 dated 26-05 2022.
88.	(111)	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. 625 KLD Sewage Treatment Plan is commissioned and in operation.
89.	(īv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied. Proper drainage systems & Oil Wate Separator (OWS) have been provided

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No.	Reference No.	Conditions	Compliance
			Spillage and Contaminant Containment Plan has been prepared and approved by GSPCB.
90.	(v)	The runoff from paved structures like Aprons can be routed through drains to oil separation tanks and sedimentation basins before being discharged into rainwater harvesting structures.	Complied. Runoff from the paved structure like Apron has been routed through Oil Water Separator (OWS).
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. Runoff from chemicals and other contaminants from aircraft maintenance and other areas has been routed through Oil Water Separator (OWS) before disposal. Spillage and Contaminant Containment Plan has been approved by GSPCB.
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. General Standards for Discharge of Environmental Pollutants in the Environment (Protection) Rules, 1986 was considered in design phase itself and the same is being ensured during operation also.
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	Complied. Rainwater harvesting for roof runoff and surface runoff has been implemented as
ANAT ATA HAN	HAN	structures shall conform to CGWA guidelines. Before recharging Digitally signed by RANGANATHAN VENKATA SHESHAN DN c=IN, o=Perional, postalCode=562157, st=Kamataka, serialNumber=2C9AC68293B3C455D089051156 AC282D0674042FF0C08889EC98624F81F98EA 0, cm=RANGANATHAN VENKATA SHESHAN Date: 2023.11.10.13:11:35.405'30'	surface runoff has been implemented a



No.	Reference No.	Conditions	Compliance
		the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.	per WRD, GoG approved rainwater harvesting plan.
	IV	Noise monitoring and prevention	
94.	(1)	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.	Airport Noise Zone Mapping Report as per GSR-568 (E) dated 18 th June 2018 is prepared and will be submitted to DGCA in October 2023.
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. Noise levels monitoring in and around the airport is being conducted through MoEF&CC approved laboratory. Monitoring reports are enclosed in Annexure - 2 .
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. DG sets are installed with acoustic enclosures, Random workplace noise levels monitoring is being carried out through MoEF&CC approved laboratory. Monitoring reports are enclosed in Annexure-2.
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. DG sets are installed with acoustic enclosures. Necessary PPEs are provided to the operating personnel.
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	Complied. Noise level monitoring is being carried ou at airport boundary through MoEF&CC
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No,	Reference No.	Conditions	Compliance
		building shall be restricted to the permissible levels to comply with the prevalent regulations.	approved laboratory. Monitoring reports are enclosed in Annexure-2.
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. Major Construction activities have been completed. Currently, the Airport is operational.
	v	Energy Conservation/climate change measures	
100.	(1)	Energy conservation measures like installation of LED should be integral part of the project design and should be in place before project commissioning.	Complied. Entire lighting fixtures provided across the airport complex are of LED type only.
101,	(11)	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. The requirements of Green Infrastructure Development program, adoption of less emission intensive technologies, renewable energy program and electrical vehicles are considered in the design itself and same is being implemented. PTB has been accorded with IGBC Platinum Certificate from CIL.
	VI	Waste Management	
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. Soil stockplies were managed and properly stabilized to minimize dust emission and sediment runoff.

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No.	Reference No.	Conditions	Compliance
103.	(ii)	The project activity shall conform to the Fly Ash notification issued under the E.P. Act of 1986.	Complied. Fly Ash was used in RMC as per mix design in the construction.
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), 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.	Complied. All solid waste collected, segregated and disposed according to the provisions of Solid Waste (M&H) Rules, 2016. Waste is handled at Integrated Solid Waste Management Facility and a dedicated Waste Management Agency is on-board to handle all wastes.
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 inert waste from construction site was strictly managed as per the Solid Waste Management Rules, 2016 and C&D Waste Management Rules, 2016.
	(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:	Integrated Solid Waste Management Plan has been prepared and same has been approved by GSPCB.
106.	ð.	Trash collected in flight and disposed at the airport including segregation, collection and disposed.	 Separate arrangement 'Airside Waste Transfer Station' has been provided to
	b,	Toilet wastes and sewage collected from aircrafts and disposed at the Airport.	collect the trash from flights. Same is then transferred to Integrated Solid
	C.	Wastes arising out of maintenance and workshops	Waste Management Facility (ISWMF)
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wastes	 b. Night Soil Pit has been provided to collect sewage waste from aircrafts. The same is then pumped to 625 KLD STP for treatment. c. All waste generated from maintenance and workshop is being collected, segregated, processed and transferred via Integrated Solid Waste Management Facility. d. All waste from eateries and shops is being collected, segregated, processed and transferred via Integrated Solid Waste Management Facility. e. Hazardous waste is being disposed-off to GSPCB authorized recyclers.
	 STP for treatment. c. All waste generated from maintenance and workshop is being collected segregated, processed and transferred via Integrated Solid Waste Management Facility. d. All waste from eateries and shops is being collected, segregated, processed and transferred via Integrated Solid Waste Management Facility. e. Hazardous waste is being disposed-off to GSPCB authorized recyclers.
developed in area as provided in protect	Compliance as analisable for off
developed in area as provided in president	Compliance as applicable for only
tree species in accordance with Forest	Compliance, as applicable for safe operation of airport, as per DGCA, will be ensured.
word bird nesting and to improve pollution	Compliance, as applicable for safe operation of airport, as per DGCA, will be ensured.
	Noted.
nt of Goa, care should be taken that soil	Compliance is being ensured.
	void bird nesting and to improve pollution ontrol measures. Water intensive and/or Id not be used for landscaping. ould be taken up under the expert guidance



No.	Reference No.	Conditions	Compliance
		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.	
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 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.	GoG, through Goa State Biodiversity Board (GSBB) has carried out plantation of 5 lake tree saplings as a compensator afforestation plantation. GGIAL ha contributed INR 1 Crore for supporting the compensatory plantation. Till now, GSBB has distributed & Plante 6,39,278 number of tree saplings. 50,000 trees will be planted inside the airport premises in the form of Miyawak Plantation.
111.	(v)	Top soil shall be separately stored and used in the development of green belt.	Complied. The excavated top soil was stored a designated locations within the site and the same was utilized for the landscaping and horticulture purposes within the airpor premises.
	VIII	Public hearing and Human health issues	
112.	(1)	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.	Complied in collaboration with GoG.

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No.	Reference No.	Conditions	Compliance
		Compliance for each mitigation plan shall be submitted to Regional Office, MoEF&CC along with half yearly compliance report.	
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. Electro-mechanical doors and children nursing/feeding rooms are provided in PTB
114.	(iii)	Emergency preparedness plan based on the Hazard identification and Risk Assessment (HIRA) and Disaster Management Plan shall be implemented.	Complied.
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. Labor colony, within project site, with a necessary infrastructure and facilities was provided. Labour strength has come done substantially and partly labour colony is decommissioned. Major construction activities have been completed. Scheduled domestic commercial airport operation commenced on 5 th January 2023
116.	(v)	Occupational health surveillance of the workers shall be done on a regular basis.	Being Complied. Occupational health surveillance of the workers is being carried out on regula basis.
		Conditions of Hon'ble Supreme Court of India (SCI) Orde	r dated 16/01/2020



No.	Reference No.	Conditions	Compliance
117.	(0)	Ref. No. 47: Adopt a Zero Carbon Programme during construction and operational phases of the Airport.	Compliance is being ensured. In line with our commitments submitted to SCI, infrastructure required for the Zero Carbon Program during operational phase was considered in the design itself and same has been implemented at site. Mapping of GHG emission is initiated from the date of commencement of the scheduled commercial airport operation.
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. NEERI has been appointed. NEERI visited project site and reviewed the EC compliance on 26 th June 2023. Further NEERI reviewed the EC compliances or 22 nd September 2023.

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ANNEXURE - 1A

ENVIRONMENTAL MITIGATION MEASURES AS PER EIA REPORT AND COMPLIANCE STATUS (CONSTRUCTION PHASE) AS OF SEPTEMBER 2023

eing complied. acavation/filling activity is being carried out for spin ad construction. ample copy of Field Service Report of the vehicle orking for the spine road construction work is enclose Appendix-A . eing Complied. Acavation/filling activity is being carried out for spin ad construction.
cavation/filling activity is being carried out for spin
ample copy of PUC of the vehicles working for the spin ad construction work is enclosed as Appendix-B .
eing Complied. ccavation/filling activity is being carried out for spin ad construction. ust control measures are being implemented at site o we unpaved areas & excavation site using water tankers ample photographs of implementation of dust contro easures are enclosed as Appendix-C .
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S. No.	Mitigation Measures	Compliance Status
04	Ensure vertical stacks with height sufficient for dispersion as per CPCB guideline for DG stacks.	Being Complied. All DG sets working at site are provided with sufficient vertical stack height as per the CPCB Guidelines. Photo showing DG with adequate stack height is enclosed in the Appendix-D .
05	Monitor water usage at construction camps to prevent wastage.	Being Complied. All major construction activities have been completed and construction camps are being dismantled partly. However, water usage at the construction camp is being monitored using water meters.
06	Ensure STP at construction camps/sites and the proposed facilities are properly designed to handle peak waste water load and properly maintained.	Being complied, Temporary STP of 150 KLD is in operation at the construction workmen camp. The STP is within airport project site premises and designed to handle peak waste water load and being properly maintained.
07	Ensure supply of temporary/portable toilets for construction staff.	Being Complied. All major construction activities have been completed except ongoing spine road construction and hence labour strength have also reduced significant. However, sufficient number of temporary / portable toilets are provided for construction staff at site. Sample photo of portable toilet facility is enclosed as Appendix-E .
NATHAN- FA	Chokada proved by RANGANISTHAN VENKATA SHENADA INV. C-3N, DePensional postal odde:SC2157, INV. C-3N, DePensional postal Codd:SC2157, INV. C-3N, DePensional Codd:SC2157, INV.	



S. No.	Mitigation Measures	Compliance Status		
	Mitigation Measures for Land Environment durin	nment during Construction Phase		
08	Avoiding rainy season for construction so as to avoid soil erosion.	Complied during construction phase. All major construction activities have been completed and airport is operational.		
09	Restricting all construction activities inside project boundary.	Complied during construction phase.		
10	Ensure top soll stock pile is not contaminated with any type of spills.	Complied during construction phase. The excavated topsoil was stored at designated locations within the site away from the possible spill areas. Same was utilized for landscaping and horticulture purposes within the airport premises.		
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 during construction phase. Materials resulting from clearing and grading all construction site was strictly managed as per the Solid Waste Management Rules, 2016 and Construction & Demolition Waste Management Rules, 2016.		
	Mitigation Measures for Noise Environment duri	ng Construction Phase		
12	Ensure preventive maintenance of equipment and vehicles.	Being complied. Excavation/filling activity is being carried out for spine road construction. Sample copy of Field Service Report of the vehicles working for other minor construction work is enclosed as Appendix-A.		
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S. No.	Mitigation Measures	Compliance Status	
13	Ensure DG sets are provided with acoustic enclosures and exhaust mufflers.	Being complied. All DG sets working at site are provided with acousti enclosure, exhaust mufflers and sufficient vertical stac height as per the CPCB Guidelines. Photo showing DG with adequate stack height enclosed in the Appendix-D .	
14	Ensure vehicle movement is avoided at night, and close to sensitive receptors (such as schools, hospitals, place of worships).	Complied during construction phase.	
	Mitigation Measures for Biological Environment du	ring Construction Phase	
15	Keep a tally of trees cut.	Complied. Records have been maintained.	
16	Avoid cutting of trees wherever possible.	Being Complied with,	
17	Closing of trenches as soon as possible after pipeline laying, if any.	Being Complied with.	
	Mitigation Measures for Socio-economic Environment	during Construction Phase	
18	Prohibit use of firewood in project camps and making use of cooking gas is mandatory.	Being Complied. Labour colony have been established within site with LPC based cooking system.	
19	Regulating speed limit of the vehicles	Being regulated.	

RANGANATH AN VENKATA SHESHAN

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MANGHAR INTERNATIONAL AIRPORT DEA GAR >

Half Yearly EC Compliance Report (April 2023 to September 2023)

Appendix - A

Preventative Maintenance of Vehicles

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Appendix - B

Sample PUC Certificates

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Photographs of Sample PUC Certificates

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Appendix - C

Dust Control Measures Implemented at Site



Water Sprinkling on Unpaved Haul Roads



Excavated materials transported by covering with tarpaulin sheet

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Appendix - D Diesel Generators with Adequate Stack Height & Acoustic Enclosure



DG Set with adequate Stack Height

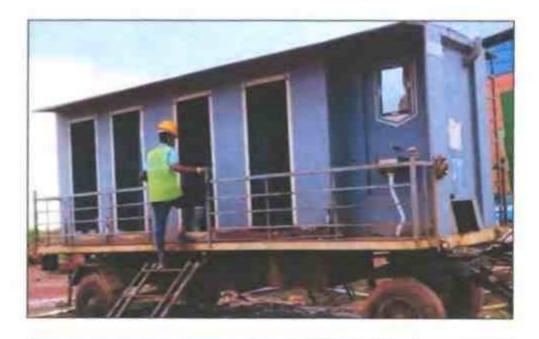
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Appendix - E

Portable Toilet Facilities





Portable Toilets at Site

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ANNEXURE - 1B

ENVIRONMENTAL MITIGATION MEASURES AS PER EIA REPORT AND COMPLIANCE STATUS (OPERATION PHASE) AS OF SEPTEMBER 2023

S, No.	Mitigation Measures	Compliance Status
	Mitigation Measures for Air Environment	during Operation Phase
01	Develop peripheral green belt in the proposed Airport premises.	Noted. Compliance, as applicable for safe operation of airport will be ensured.
02	Ensure preventive maintenance of vehicles and equipment	Being Complied. Periodical preventive maintenance is conducted for all vehicles and equipments. The sample service / maintenance report is attached in Appendix-I.
	Mitigation Measures for Water Environmen	t during Operation Phase
03	Tracking of raw water consumption through water meters	Being Complied. Raw water is being sourced from Tillari Irrigation Cana under existing MoU/approval from Water Resources Department, GoG. The raw water being pumped is measured through installed water flow meters. Details are provided in Appendix-II .

RANGANATHAN VENKATA SHESHAN

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S. No.	Mitigation Measures	Compliance Status		
04	Installation of rainwater harvesting structures	Complied. Rainwater harvesting structures have been installed in airside and landside as per the approval of WRD, GoG. Details are provided in Appendix-III .		
05	Explore opportunities for drip irrigation system for greenbelt development	Noted. Compliance to greenbelt development, as applicable for safe operation of airport, will be ensured. Drip irrigation system has been provided in landscaping & avenue plantation areas at landside. Details are provided in Appendix-IV		
	Mitigation Measures for Land Environment dur	ing Operation Phase		
06	Develop and maintain dedicated waste storage areas	Being Complied. Integrated Solid Waste Management Facility (ISWMF has been developed and being maintained. Collection, transportation, segregation, treatment an disposal activities of all bio-degradable and non biodegradable wastes are being undertaken via ISWM only. Details are provided in Appendix-V .		
07	Ensure hazardous waste storage areas are provided with secondary containment	Noted. Secondary containment system has been provided a hazardous waste storage areas. Details are provided in Appendix-VI .		
NATHAM A	containment	Secondary containment system has been pro hazardous waste storage areas.		



5. No.	Mitigation Measures	Compliance Status		
	Mitigation Measures for Noise Environment dur	ing Operation Phase		
08	On top of quota system, there is also an absolute limit on the number of flights permitted at the airport	Airport Noise Zone Mapping Report as per GSR-568 (E dated 18 th June 2018 is prepared and will be submitted to DGCA in October 2023.		
09	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 quitter, their points get smaller until the quietest planes have just half a point or are exempt together.	[ASA 24: MARCHARD CALLER AND CALLER		
10	During the night quota period the nosiest 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 alrines who want to fly at night to use the quietest aircraft.	tal dated 18th June 2018 is prepared and will be subm		
11	Pilots are encouraged not to use reverse thrust between 23:00 and 6:00 except in the interest of safety.	Being Complied. Not to use reverse thrust is communicated to Airline taking safety consideration.		
	Mitigation Measures for Biological Environment d	uring Operation Phase		
12	Proper maintenance of green belt developed	Noted. Compliance for greenbelt development, as applicable for safe operation of airport, will be ensured.		
13	Regulating speeding of vehicles on approach road of Airport	Noted. Speed limit boards are displayed.		

RANGANATHAN

Controlly report by GANGAGATHAN VEHICITA SANSHWI DN: codil collemental yearthCode+192157. Co-Samataka VENKATA SHESHAN Date 202111-10 (13142-0910)

GAR > Automation	Half Yearly EC Compliance Report (April 2023 to September 2023)
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Mitigation Measures for Socio-economic Environment during Operation Phase						
14	Ensure implementation of disaster management plan	Noted. 'Airport Emergency Response Plan' has been prepare and this is being implemented.				

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Appendix-I

Preventive Maintenance of Vehicle and Equipment

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Sample of Job Card and Repair Order for Vehicle

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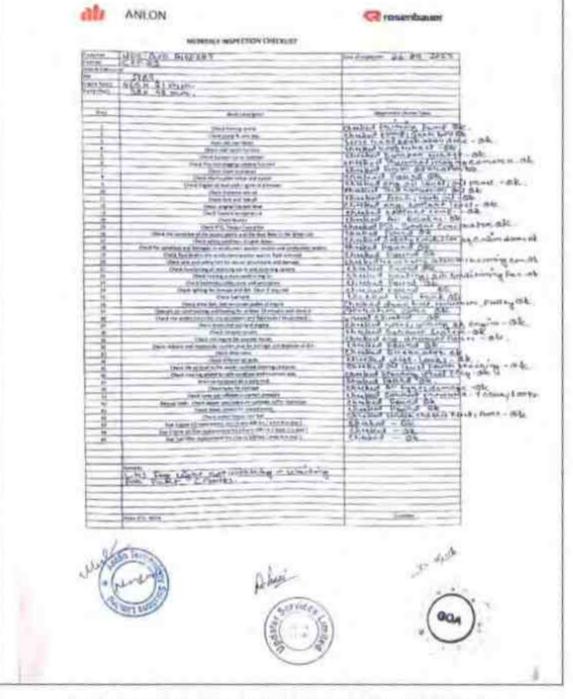
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Sample of Service Report for the Vehicle

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GAR > MANOPLAN INFORTONAL Half Yearly EC Compliance Report (April 2023 to September 2023)



Sample Copy of Periodical Checklist for Vehicle Maintenance

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Appendix-II

Raw Water Consumption

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Raw Water Consumption through Water Meter (March 2023 to June 2023)



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Raw Water Consumption through Water Meter (July 2023)

RANGANA THAN VENKATA SHESHAN

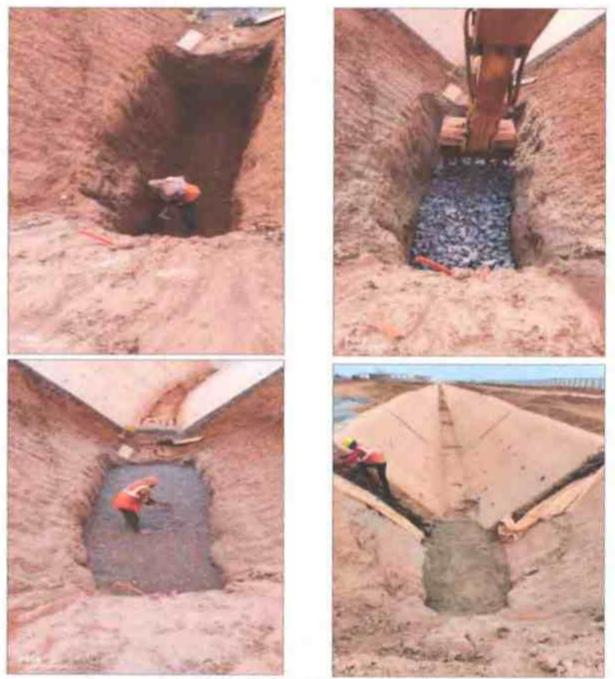
GAR X HANDRAD

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Appendix-III **Rainwater Harvesting Structures**

In-line Rainwater Harvesting pits have been provided as per the Water Resource Department (WRD), GoG, approved drainage plan and drawings. Water holding pits, baffle walls & bore wells have been provided in landside as well as airside drains with proper filtration system.



In-line Rainwater Harvesting Pits



DN: c=IN, o=Personal, 98624F81F98EA0, cm+RANGANATHAN VENKATA SHESHAN Date: 2023.11.10 14:10:23 +05'30'



Appendix-IV **Drip Irrigation for Landscaping & Avenue Plantation**



Drip Irrigation for Landscaping & Avenue Plantation



DN: c=IN, o=Personal. 96624F81F95EA0, cn-RANGANATHAN VENKATA SHESHAN Date 2023.11.10 14:13:13 +05'30'





Sprinkler Irrigation for Landscaping & Avenue Plantation

RANGANAT HAN VENKATA SHESHAN

Digitally signed by RANGANATHAN VENKATA SHESHAN DN: c=IN, o=Personal, postalCode=562157, st=Karnataka, serialNumber=2C9AC6829383C45 5D089051156AC282D0674042FFD C0B889EC98624F81F98EA0, cn=RANGANATHAN VENKATA SHESHAN Date: 2023.11.10 14:15:42 +05'30'



Appendix-V Integrated Solid Waste Management Facility

Integrated Solid Waste Management Facility (ISWMF) has been provided within the airport site. All bio-degradable and non-biodegradable wastes are being collected, transported, segregated, treated and disposed via this facility only.



Integrated Solid Waste Management Facility

Collection: From triple waste bins (offices, terminal, deplaned aircraft waste, retails, cargo, etc.)





Digitally signed by RANGANATHAN postalCode=562157, st=Kamataka, EC98624F81F9BEAD CO-RANGANATHAN VENKATA SHESHAN Date: 2023.11.10 14:18:13 +05'30'



Transportation: To the Integrated Solid Waste Management Facility by Electrical Vehicle



Segregation: Through Material Recovery Facility (MRF)



Disposal: - Recyclable - Authorised Vendor & Non-recyclable - Send as RDF to cement kilns





DN: c=/N, c=Personal, postulCode-562137, st-Remataka 9051156AC282D9674042FFDC08889EC 95624F81F98EA0, CH-RANGANATHAN VENKATA SHESHAN Date: 2023 11 10 14:21:41 +05'30'



Appendix-VI Secondary Containment at Hazardous Waste Storage Area



Hazardous Waste Storage Facility



Provision made for Category Wise Storage of Hazardous Wastes



Digitally signed by RANGANATHAN VENKATA SHESHAN DN: c=IN; o=Personal, postalCode=562157; si=Karnataka, serialNumber=3020674042470C084391038 051156AC28200674042470C084391038 634781798EA0; cs=RANGANATHAN VENKATA SHESHAN Date: 2023.11.10.142414.405307

ANNEXURE-2 ENVIRONMENTAL QUALITY MONITORING REPORT FOR PERIOF OF APRIL-2023 TO SEPTEMBER 2023



B PVT. L (TA 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

	1	AMBIENT AIR QUAL	TY MONITORING REPORT				
Report Date	04/0	05/2023	/2023				
Name of Client	M/s.	GMR GOA INTERNATIONAL AIRPORT LIMITED					
Address of Client		INISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, ZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.					
Sampling Plan	GLP	PL/QF/7.3/06	Page No.	1 of 1			
Sample Collected By	GLP	L Representative					
Month of Sampling	Apri	2023					
		AMBIENT	AIR LOCATION				
Location of Ambient Air Sta	tion	Mopa Boundry - Go	a State (G-A1)				
	alant.		A CONTRACTOR AND A MARK CONTRACTOR				

the second se	C. C. The Second S	
34	Average Humidity (%)	81
29	Average Wind direction (Deg)	265
N 1545'51.1"	Longitude	E 73°56'32.4*
FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)
	N 1545'51.1"	29 Average Wind direction (Deg) N 15*45'51.1* Longitude

Sr.	Date of	Deserthe	-	1	L	PAR	AMETERS	•	0.00		
No.	Sampling	Report No.	SPM	PMio	PMLs	SO2	NOx	co	COr	Lead	VOC
1	03.04.2023	GA/23/0793	133.4	72.60	37.30	< 6.0	< 9.0	0.29	67.1	0.06	< 1.0
2	06.04.2023	GA/23/0806	147.4	66.45	28,19	< 6.0	< 9.0	0.68	106.4	0.04	<1.0
3	10.04.2023	GA/23/0835	131.1	82.68	29.77	< 6.0	< 9.0	0.34	58.7	0.06	< 1.0
4	13.04.2023	GA/23/0856	147.4	88.71	26.53	< 6.0	< 9.0	0.71	116.1	0.07	< 1.0
5	17.04.2023	GA/23/0874	161.2	95.20	30.48	< 6.0	< 9.0	0.79	103.8	0.04	< 1.0
6	20.04.2023	GA/23/0920	141.0	83.46	21.79	< 6.0	< 9.0	0.61	129.4	0.11	< 1.0
7	24.04.2023	GA/23/0949	155.6	90.61	28.82	< 6.0	< 9.0	0.41	87.3	0.08	< 1.0
1.	27.04.2023	GA/23/0984	135.1	78,77	30.61	< 6.0	< 9.0	0.50	75.3	80.0	< 1.0
	NAAQSLI	MITS .		100	60	80	80	2	-	1	-
_	UNIT	s	µg/m ³	hð/m3	pg/m ³	µg/m³	µg/m³	mg/m ³	ppm	µg/m ³	ppm
	METH	DD	85.5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2018	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2005	tS 5182 (Part X) 1999	GC Method	15 5182 (Part XX8) 2004	EPA Methor 18

"N.A.A.Q.S. - National Amblent Air Quality Standards

Note :

1. The results relate only to the samples tested.

Test Report shall not be reproduced except in full, without written approval of the taboratory.
 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 r or analysis is back side of analysis report.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

+TBagayatty CHECKED BY

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

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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OFF : 15. Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83. Tel. (022) 2577 7069 / 2577 7070 / 2085 0091 + +01 93213 12367

TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT				
Report Date	64/	04/05/2023					
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED				
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.					
Sampling Plan	GU	PL/QF/7.3/06	Page No.	1 of 1			
Sample Collected By	GLF	GLPL Representative					
Month of Sampling	Apr	April 2023					
		AMBIENT AIR	LOCATION				
gation of Ambient Air Sta	tion	Shemecheadvan Goa	advan Goa State (G-A2)				
Average Ambient Temperal	ture (°C)	34	Average Humidity (%)	80			
Average Wind Speed (km/h	nr)	36.2	Average Wind direction (Deg)	271			
Latitude		N 15*42'06.1*	Longitude	E 73*49'21.5"			
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)			

Sr. Date of p.	Barnard Mar				PAR	AMETERS					
No.	Sampling	Report No.	SPM	PMss	PM2.8	SO	NOx	CO	CO2	Lead	VOC
1	03.04.2023	GA/23/0792	160.5	68.19	25.95	< 6.0	< 9.0	0.35	79.8	0.03	< 1.0
2	06.04.2023	GA/23/0805	166.6	70.99	30.56	< 6.0	< 9.0	0.95	140.9	0.03	< 1.0
3	10.04.2023	GA/23/0834	154.4	77.45	31.23	< 6.0	< 9.0	0.71	133.4	0.03	< 1.0
4	13.04.2023	GA/23/0855	161.2	80.14	33.27	< 6.0	< 9.0	0.73	122.9	0.05	< 1.0
5	17.04.2023	GA/23/0873	176.3	89.80	32.81	< 6.0	< 9.0	0.50	98.1	0.02	< 1.0
6	20.04.2023	GA/23/0919	164	89.58	31.89	< 6.0	< 9.0	0.43	70.8	0.10	< 1.0
7	24.04.2023	GA/23/0948	176.2	91,40	35,14	< 6.0	< 9.0	0.35	104.3	0.04	< 1.0
٩. 1	27.04.2023	GA/23/0983	159.1	87.59	35.55	< 6.0	< 9.0	0.44	70.3	0.07	< 1.0
1	NAAQS LI	MITS *		100	60	80	80	2	-	1	
	UNIT	5	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
	METHO	ac	(5 5182 (Part 4)	85.5182 (Part XXX8) 2005	USEPA FEM. 40 CFR Part 50. Appendia- 1, 2014-2018	15 5182 (Pwt.II) 2001	15 5182 (Part VI) 2008	15 5182 (Pert X) 1800	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

"N.A.A.Q.5. - National Ambient Air Quality Standards

Note :

1. The results relate only to the samples tested.

Test Report shaft not be reproduced except in full, without written approval of the laboratory.
 Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Results relate only to the conditions prevailing at the time of sampling.

8. Customer complaint register is available at laboratory. nett's used in monitoring and / or analysis is back side of analysis report.

R. Calibrati n details of the aquipi For GADARK LAB PVT. LTD.

ANDE

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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+ Bagayette CHECKED BY

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

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 936-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 476-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 471-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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OFF.: 15. Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - B3. Tal.: (022) 2577 7069 / 2577 7070 / 2085 0001 + +91 93213 12267

TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT				
Report Date	04/0	04/05/2023					
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED				
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.					
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1			
Sample Collected By	GLF	PL Representative					
Month of Sampling	Apri	April 2023					
A		AMBIENT AIR	LOCATION				
Lucation of Ambient Air Sta	tion	Nagzar – Goa State (G-A3)					
Average Ambient Temperat	ture ("C)	33.0	Average Humidity (%)	74			
Average Wind Speed (km/hr)		25.2	Average Wind direction (Deg)	242			
Latitude		N 15*45'37.3*	Longitude	E 73*53'14.22"			
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)			

Sr. Date of	Bernet Br.				PARA	METERS					
No.	Sampling	Report No.	SPM	PMtt	PMIA	50;	NOx	co	COI	Load	VOC
1	03.04.2023	GA/23/0785	173.0	90.29	28.57	< 6.0	< 9.0	0.49	129.6	0.06	< 1.0
2	06.04.2023	GA/23/0798	174.3	88.61	33.39	< 6.0	< 9.0	0.79	110.4	0.03	< 1.0
3	10.04.2023	GA/23/0827	161.9	90.20	37.76	< 6.0	< 9.0	0.68	125.6	0.06	< 1.0
4	13,04,2023	GA/23/0848	179.8	90.75	40.00	< 6.0	< 9.0	1.05	138.9	0.06	< 1.0
5	17.04.2023	GA/23/0866	192.1	88.74	29.82	< 6.0	< 9.0	0.86	117.9	0.06	< 1.0
6	20.04.2023	GA/23/0912	177.7	91.51	38.63	< 6.0	< 9.0	0.41	68.9	0.07	< 1.0
7	24.04.2023	GA/23/0941	189.5	92.22	38.22	<6.0	< 9.0	0.75	85.4	0.04	< 1.0
-6.	27.04.2023	GA/23/0976	176.2	91.07	35.55	< 6.0	< 9.0	061	78.7	0.06	< 1.0
	NAAQS LIM	ITS *		100	60	80	80	2	-	1	-
	UNITS	1	µg/m ³	µg/m ⁵	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
	METHO	D	15 8182 (Part 4)	15 5182 (Pari XXIII) 2008	USEPA FEM. 40 CFR Patt 50, Appendia- L, 2014-2018	15.5182 (Part.8) 2001	15 5182 (Part VI) 2008	15 2182 (Pwt.X) 1996	GC Method	15 5182 (Part XXI0 2004	EPA Methodi 18

"N.A.A.Q.S. - National Ambient Air Quality Standards Note :

The leasts relate only to the samples listed

2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

Samples will be preserved for a period 18 days from the delivery of Test Report.

4. Test Results relate only to the conditions prevailing at the time of sampling.

Culturner completint register is available at laboratory.
 Calibration details of the equipment's used in monitoring and i or analysis is back side of analysis regist.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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

CALIBRATION DETAILS OF EQUIPMENT USED FOR	SAMPLING
-------------------------------------------	----------

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 847-DTJ-2019	08/10/2022	08/10/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6896-DTC-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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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 I	MONITORING REPORT				
Report Date	04/	04/05/2023					
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED				
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.					
Sampling Plan	GL	PL/QF/7.3/06	Page No.	1 of 1			
Sample Collected By	GU	PL Representative					
Month of Sampling	Apr	1 2023					
0		AMBIENT AIR	LOCATION				
Location of Ambient Air St	ation	Purva Casarvamem - Goa State (G-A4)					
Average Ambient Tempera	ture (°C)	33.5	Average Humidity (%)	73			
Average Wind Speed (km/	hr)	24	Average Wind direction (Deg)	251			
Latitude		N 15*41'41.9*	Longitude	E 73°50'16.6"			
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)			

Sr.	Date of	Report No.	L.			PAR	AMETERS	10 A		1	
No.	Sampling	Report No.	SPM	PMia	PMLX	SO:	NOx	CO	COI	Lead	VOC
1	03.04.2023	GA/23/0786	156.4	85.93	32.64	< 6.0	< 9.0	0.57	78.4	0.05	< 1.0
2	06.04.2023	GA/23/0799	159.9	74.14	26.95	< 6.0	< 9.0	0.40	80.4	0.05	< 1.0
3	10.04.2023	GA/23/0828	141.4	80.39	34.97	< 6.0	< 9.0	0.39	87.6	0.04	< 1.0
4	13.04.2023	GA/23/0849	149.5	84.02	38.96	< 6.0	< 9.0	0.55	120.8	0.05	< 1.0
5	17.04.2023	GA/23/0867	164.9	85.76	21.84	< 6.0	< 9.0	0.33	52.0	0.05	< 1.0
6	20.04.2023	GA/23/0913	173.6	88.37	25.78	< 6.0	< 9.0	0.60	87,5	0.09	< 1.0
1	24.04.2023	GA/23/0942	161,3	90.33	34,14	< 8.0	< 9.0	0.65	76.1	0.03	< 1.0
8	27.04.2023	GA/23/0977	141.7	88.26	28.28	< 8.0	< 9.0	0.84	112.2	0.03	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	+	1	-
	UNIT	\$	µg/m ²	µg/m ³	µg/m³	µg/m ³	µg/m³	mg/m ³	ppm	µg/m ³	ppm
	METHOD		15 5182 (Part 4)	15 5162 (Part XXXI) 2006	USEPA FEM. 40 CFR Part 58, Appendia- 1, 2014-2016	(5 5182 (Part II) 2001	15 1182 (Part VI) 3006	15 5182 (Part X) 1998	GC Method	15:5182 (Pwt 800) 2004	EPA Skithod 18

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

Note:

1. The results relate only to the samples leated.

2 Test Report shall not be reproduced except in full, without within approval of the lateratory. 2 Samples will be preserved for a period 15 days from the delivery of Test Report. 4. Test Results relate only to the conditions prevailing at this time of sampling.

8. Customer compliant register is available at laboratory. R. Calibration d

ment's used in monitoring and / or analysis is tack side of analysis report. For GADARK LAB PVT. LTD.

Supe

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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

NDA

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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.m

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RDS (APM - 460)

TEST REPORT

		AMBIENT AIR QUALITY	MONITORING REPORT					
Report Date	04/05/2023							
Name of Client	M/s	s. GMR GOA INTERNATIONAL AIRPORT LIMITED						
Address of Client			OPA INTERNATIONAL AIRPORT, DAI MOPA, NORTH GOA 403512.	DACHIWADI ROAD,				
Sampling Plan	GLP	L/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GLP	GLPL Representative						
Month of Sampling	Apri	GLPL Representative April 2023						
		AMBIENT AIF	LOCATION					
ation of Ambient Air Statio	in.	Khajne Amere Porscod	iem - Goa State (G-A5)					
Average Ambient Temperature (*C)		34	Average Humidity (%)	79				
Average Wind Speed (km/hr)	ii	22.4	Average Wind direction (Deg)	242				
Latitude		N 15*40'38.0"	Longitude	E 73*46/21.2"				

FPS (APM - 550)

Sr.	Date of	Descent Ma.				PARA	METERS				
No.	Sampling	Report No.	SPM	PMss	PMas	SO;	NOx	co	CO2	Lead	VOC
1	03.04.2023	GA/23/0787	76.5	59,81	19.63	< 6.0	< 9.0	0.64	121.6	0.07	< 1.0
2	05.04.2023	GA/23/0800	66.3	55.54	17.09	< 6.0	< 9.0	0.43	106.4	0.01	< 1.0
3	10.04.2023	GA/23/0829	76.5	65.31	15.80	< 6.0	< 9.0	0.41	85.8	0.05	< 1.0
4	13.04.2023	GA/23/0850	65.9	57.82	18.50	< 6.0	< 9.0	0.79	111.9	0.07	< 1.0
5	17:04:2023	GA/23/0868	78.3	65.09	22.83	< 6.0	< 9.0	0.45	82.6	0.05	< 1.0
6	20.04.2023	GA/23/0914	66.1	60.39	15.93	< 6.0	< 9.0	0.37	64.2	0.14	< 1.0
7	24.04.2023	GA/23/0943	77.9	65.65	12.52	< 6.0	< 9.0	0.85	101.6	0.06	< 1.0
)	27.04.2023	GA/23/0978	59.7	57.85	17.80	< 6.0	< 9.0	0.72	105.9	0.10	< 1.0
	NAAQS LI	MITS *		100	60	80	80	2		1	
	UNIT	5	µg/m ²	rug/m ¹	µg/m ³	µg/m ³	µg/m³	mg/m²	ppm	µg/m ³	ppm
METHOD		15-6182 (Part 4)	15 5162 (Part XXXII) 2006	USEPA FEM, 42 CFR Pat. 50, Appendia- L, 2014-2018	15 5182 (Pavt 8) 2001	15 5182 (Pwt VI) 2006	15.5182 (Part X) 1998	GC Method	15.5182 (Part 3000 2004	EPA Method 18	

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Note :

Instrument Used

1. The results relate only to the samples testind.

Test Report shall not be reproduced except in full, without written approval of the laboratory.
 Bernples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Results relate only to the conditions prevailing at the time of sampling.

5. Customer complaint register is available at laboratory.

 Calibration dotails of the equipment's used in monitoring and / or analysis is back side of analysis report. For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



1-Pagementer CHECKED BY

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

GPS (APM - 411)

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF: 15, Hindusten Kohinoor Industrial Complex, L.B.S. Marg, Vikturali (West), Mumbrai - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 93213 12367

TEST REPORT

			AMBIE	INT AIR QU	ALITY MO	NITORING F	REPORT						
Repor	t Date		04/05/2023										
Name	of Client		M/s. GMR G	OA INTERN	ATIONAL	AIRPORT L	IMITED						
Addre	ss of Client					A INTERNAT			DADACHI	VADI ROA	D,		
Samp	ling Plan		GLPL/QF/7.1	3/06		1	Page No.			1 of 1			
Samp	le Collected By	r:	GLPL Repre	sentative									
Month	of Sampling		April 2023										
		-		AMBIE	NT AIR LO	OCATION							
1 gation of Ambient Air Station			Rajvil	Rajvil Wada Torxem - Goa State (G-A6)									
Avera	ge Ambient Te	mperature (°C	3	33		Average H	82						
Avera	ge Wind Speed	d (km/hr)		22		Average W	Ind directi	on (Deg)		249			
Latitus	te			N 15º48'40	.0*	Longitude			E	73*52'50.	2*		
Instru	ment Used		F	PS (APM -	550)	RDS	(APM - 4	60)	GPS	s (APM -	(11)		
Sr.	Date of	-	1			PAR	AMETERS		_	-	_		
No.	Sampling	Report No.	SPM	PMie	PMas	5O2	NOx	CO	CO;	Lead	VOC		
1	03.04.2023	GA/23/0790	135.8	67.25	18.63	< 6.0	< 9.0	0.55	98.7	0.08	< 1.0		
2	06.04.2023	GA/23/0803	126.1	64.64	24.08	< 6.0	< 9.0	0.34	80.6	0.04	< 1.0		
	and the state of the local division of the l	second the second se		and the second se	and the second second second	and the second se	A CONTRACTOR OF MALE AND	and the second second		And in case of the local division of the loc	And in case of the local division of the loc		

	METH	ao	15 5182 (Part 4)	15 8182 (Part XXII) 2006	USEPA FEM, 40 CFR Part 50, Appendia-	10.5182 (Part.8) 2001	15 5182 (Part VI) 2006	18.5182 (Pw1X) 1999	GC Method	85.9182 (Part 300()	EPA Method 18
	UNIT	S	µg/m ³	µg/m³	hð _j w ₃	hð\w ₃	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
0	NAAQS LI	MITS*	-	100	60	80	80	2	-	1	-
٩.	27.04.2023	GA/23/0981	146.1	72.27	26.70	< 6.0	< 9.0	0.48	102.3	0.06	< 1.0
7	24.04.2023	GA/23/0946	166.1	89.03	35.62	< 6.0	< 9.0	0.44	72.8	0.09	< 1.0
6	20.04.2023	GA/23/0917	149.5	77.43	28.73	< 6.0	< 9.0	0.49	86.1	0.16	< 1.0
5	17.04.2023	GA/23/0871	166.1	73.28	34.02	< 6.0	< 9.0	0.35	53.9	0.04	< 1.0
4	13.04.2023	GA/23/0853	155.0	70.59	29.94	< 8.0	< 9.0	0.98	122.3	0.05	< 1,0
3	10.04.2023	GA/23/0832	143.3	67.27	25.99	< 6.0	< 9.0	0.43	121.0	0.06	< 1.0
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Note :

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 Costomer complaint register is available at taboraboy.

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

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SANTOSH V. ZULPE] ALAS AL

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

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 935-DTA-2015	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2022	16/05/2023
Gaseoue Sampler Sr. No. 262-D-22	16/05/2022	16/05/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



GADARK LAB PVT. LTD.

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TEST REPORT

			AMBIE	NT AIR QU	ALITY MO	NITORING	REPORT						
Repor	t Date		04/05/2023										
Name	of Client		M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED										
N				MINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, AGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.									
Samp	ling Plan		GLPL/QF/7.1	M06			Page No.			1 of 1			
Samp	le Collected By	1	GLPL Repre	GLPL Representative									
Month	of Sampling		April 2023										
	116.241			AMBIE	NT AIR LO	DCATION							
Pation of Ambient Air Station		Satar	da - Mahar	rashtra St	ate (M-A1)								
Average Ambient Temperature (*C)		3)	33.5	-	Average H	80							
Average Wind Speed (km/hr)			18.8			Ind direction	on (Deg)		220				
Latitud	5e			N 15*43'01.3"			Longitude				2"		
Instru	ment Used		F	PS (APM - S	550)	RDS (APM - 460)			GPS (APM - 411)				
Sr.	Date of					PARA	METERS						
No.	Sampling	Report No	SPM	PM ₁₈	PMLs	SO ₂	NOx	CO	COI	Lead	VOC		
1	03.04.2023	GA/23/078	8 117.8	65,60	25.66	< 6.0	< 9.0	0.43	96.2	0.08	< 1.0		
2	06.04 2023	GA/23/080	1 106.1	67.42	27.49	< 6.0	< 9.0	0.30	67.2	0.06	< 1.0		
3	10.04.2023	GA/23/083	94.3	70.09	27.57	< 6.0	< 9.0	0.47	103.6	0.07	< 1.0		
4	13.04.2023	GA/23/085	1 105.4	74.13	29.23	< 6.0	< 9.0	0.69	128.9	0.08	< 1.0		
5	17.04.2023	GA/23/086	9 117.8	78.06	26.16	< 6.0	< 9.0	0.34	72.6	0.08	< 1.0		

	METHO	DD	15.5182 (Part 4)	15 5182 (Pwt XXIII)	USEPA FEM, 40 CFR Part 50 American	15 5182 (Pwt I) 2001	15 5182 (Pwrt VI) 2008	15 5192 (Part K) 1968	GC Method	ill Stell (Part XXII)	EPA Method 18
	NAAQS LIMITS*		hð/ш ₃	pg/m ³	µg/m³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	- ppm
~			-	- 100	60	80	80	2	*	1	
1	27.04.2023	GA/23/0979	103.8	67.59	25:32	< 6.0	< 9.0	0.40	79.9	0.09	< 1.0
7	24.04.2023	GA/23/0944	115.7	62.79	17.88	< 6.0	< 9.0	0.63	117.2	0.05	< 1.0
6	20.04.2023	GA/23/0915	102.6	68.15	22.95	< 6.0	< 9.0	0.39	72.8	0.12	< 1.0

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4. Test Results relate only to the conditions prevaling at the time of sampling.

Customer compliant register is available at laboratory.

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

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT	
Report Date	04/0	05/2023		
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED	
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLF	PL Representative		
Month of Sampling	Apri	1 2023		
		AMBIENT AIR	LOCATION	
ation of Ambient Air Sta	tion	Dingane - Maharashtra	State (M-A2)	
Average Ambient Tempera	ture (°C)	34	Average Humidity (%)	85
Average Wind Speed (km/t	ır)	25	Average Wind direction (Deg)	258
Latitude		N 15*46'12.3"	Longitude	E 73*49'20.5*
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr.	Date of					PAR	AMETERS				
No.	Sampling	Report No.	SPM	PMn	PM2.8	SO;	NOx	co	CO1	Lead	VOC
1	03.04.2023	GA/23/0791	107.5	62.53	18.55	< 6.0	< 9.0	0.39	70.8	0.05	< 1.0
2	06.04.2023	GA/23/0804	99.6	58.84	15.22	< 6.0	< 9.0	0.88	136.4	0.02	< 1.0
3	10.04.2023	GA/23/0833	114.4	60.50	17.47	< 6.0	< 9.0	0.47	97,7	0.05	< 1.0
4	13.04.2023	GA/23/0854	104.9	61.60	14.93	< 6.0	< 9.0	0.88	113.9	0.06	< 1.0
5	17.04.2023	GA/23/0872	117.8	68.47	17.84	< 6.0	< 9.0	0,47	85.2	0.05	< 1.0
6	20.04.2023	GA/23/0918	91.1	62.28	16.26	< 6.0	< 9.0	0.88	134.6	0.10	< 1.0
7	24.04.2023	GA/23/0947	105.3	60.99	20.38	< 6.0	< 9.0	0.33	84.9	0.05	< 1.0
.)	27.04.2023	GA/23/0982	89.1	58.11	23.20	< 6.0	< 9.0	0.47	93,6	0.07	< 1.0
	NAAQS LI	MITS *		100	60	80	80	2	-	1	
	UNIT	8	µg/m ¹	ugim ³	µg/m ³	µg/m ³	hðjui ₂	mg/m ³	ppm	µg/m ²	ppm
	METH	00	15 5152. (Part 4)	15 3182 (Part 8333) 2008	USEPA FEM, 40 CFIR Part 50, Appendia- L, 2014-2018	15.5182 (Part 8) 2001	15 5182 (Part VI) 2005	15 5162 (Pwt X) 1895	GC Method	15.5182 (Part 300) 2004	EPA Method 18

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Note :

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4. Tout Results relate only to the conditions prevailing at the time of sampling

8. Customer complaint register is available at ishorstory

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

For GADARK LAB PVT, LTD.

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT					
Report Date	04/	04/05/2023						
Name of Client	M/s	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	GL	PL/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GLI	PL Representative						
Month of Sampling	Apr	1 2023						
		AMBIENT AIR	LOCATION					
Inpation of Ambient Air Sta	ition	Netarde - Maharashtra	State (M-A3)					
Average Ambient Tempera	ture (°C)	32.5	Average Humidity (%)	68				
Average Wind Speed (km/t	nr)	12.6 Average Wind direction (Deg) 238						
Latitude		N 15º46'11.7*	Longitude	E 73*53'47.0"				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of	The second second				PAR	AMETERS	0			
No.	Sampling	Report No.	SPM	PMtu	PMax	SOr	NOx	co	COr	Lead	VOC
1	03.04.2023	GA/23/0789	97.3	60.41	15.84	< 6.0	< 9.0	0.47	84.8	0.07	< 1.0
2	06.04.2023	GA/23/0802	86.5	82.64	17.67	< 6.0	< 9.0	0.26	60.1	0.07	< 1.0
3	10.04.2023	GA/23/0831	64.4	65.77	17.17	< 6.0	< 9.0	0.34	114.1	0.05	< 1.0
4	13.04.2023	GA/23/0852	58.6	56.86	17.59	<6.0	< 9.0	0.85	105.6	0.05	< 1.0
5	17.04.2023	GA/23/0870	74.7	61.03	18.88	< 6.0	< 9.0	0.44	78.6	0.03	< 1.0
6	20.04.2023	GA/23/0916	59.3	55.38	14.08	< 6.0	< 9.0	0.55	122.2	0.10	< 1.0
7	24.04.2023	GA/23/0945	62.0	57.90	16.80	< 6.0	< 9.0	0.95	129.1	0.04	< 1.0
8	27.04.2023	GA/23/0950	44.3	63.94	20.96	< 6.0	< 9.0	0.91	127.1	0.03	< 1.0
1	NAAQS LI	MITS *		100	60	80	80	2	-	1	-
	UNIT	\$	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ²	ppm	µg/m ³	ppm
	METHO	00	(Part 4)	15 5147 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Acpordia- 1, 2014-2018	15 3182 (Pert II) 2001	10 9192 (Part VI) 2006	15.5182 (Part X) 1990	GC Method	15 5182 (Part 300) 2004	EPA Method 18

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

For GADARK LAB PVT. LTD.

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Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 942-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 477-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 470-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

					WSE LI	EVEL MOR	NITORING RE	PORT	_				
D#	te of Issue		19/04	/2023									_
Nar	me of Client		M/s.	GMR GO	A INTE	ERNATION	AL AIRPORT	LIMIT	ED				-
Add	dress of Clien	¢					PA INTERNA RNEM, MOPA					HIWAI	DI
Sar	mpling Plan		GLPL	QF/7.3/0	6		Sampling Proc	oedure I	No.		GLPL	/SOP/A	A/17
سأسترش	nple Collecte	d By	GLPL	Represe	ntative		Constant Second Second Second						
-	ALC:	-		CONTRACTOR OF THE			LUTION M	ONITOP	UNG	_			_
Br.	Date of	Rep	ort No.	Station	Zone	1.000	ng Location	Dey	Time N In dB(A)		Ng	In dB(A)	
No.	Sampling	1000	1222-2455		1010000	0.000.00010	Seconomican .	Low	Low	Log	Lan	Loss	Las
1	14/04/2023		3/0658	G-N1	1	Mopa Bour		33.2	88.2	59.0	35.6	79.2	58.1
2	08/04/2023	and the second second	3/0613	G-N2	1	Stenechs	advan	33.4	74.8	56.T	30.8	66.3	40.
3	08/04/2023		3/0612	0-N3	C	Nagzer		39.9	74.7	52.0	28.2	63.1	47.
4	11/04/2023	the second se	3/0836	G-N4	R	Purve Case	P VIII THEM	73.8	82.5	51.8	29.9	56.9	41.0
÷.	14/04/2023	contract directory	30857	G-NS	R	Chandel	and the second second	36.7	76.1	54.1	30,7	65.8	44.5
8	11/04/2023	a ta canada da	2/0837	0-N8	R	and the set of the second set of the	ere Porscadem	37.5	68.5	45.5	31.1	87.9	42.0
7	09/04/2023		3/0823	G-N7 G-N8	R C	Rayel Wash	. Vinning	35.8	78.1	52.4	31.4	56.6 63.0	40.1
8	00/04/2023		3/0824	G-NB G-NB	c	Vilage Part	a second s	32.7	70.8	49.0	29.3	46,1	36.0
10	04/04/2023	04/2	3/0754	M-N1	R	Setarda		31.9	73.8	53.9	30.5	57.0	43.1
11	07/04/2023	GAD	3/0607	M-N2.	R	Dingene		32.9	21.8	46.4	32.9	44.2	36.2
12	07/04/2023	GA/2	3/0806	M-N3	R	Netarde	1000	25.5	76.8	49.0	34.1	49.7	35.2
	Area Code	6 I		Category	of Area		Day Time	in dB(A	light Ti	ne			
	(A)		Indus	trial Area (6		75		70				
	(B)		Come	mincial Arm	a (C)		65		55				
_	(C)		Resid	ential Area	(R)		55		45				
			40.14	te Zone (5	6								
	(D)		CAMELON	10 Mar 10 10			60		40				
2]	Day time to re	the strength of the second second	in betw	een 6:00 a	m to 10 p	the second second state of the second se	time is reckoner		een 101	or a weather as infrared to	the state of the state of the second state of the		
	Day time to re ^(B(A) Leg de A 'decibel' is r	noles f a unit in	he time in which r	een 6:00 a weighted a volse is me	m to 10 p verage c asured.	of the level of	time is reckoner sound in decide	is on sca	een 10. Net A wit	ich is reil	elable to	human h	25.00
2] 4]	Day time to re "tB(A) Leg de A "decibel" is i "A", in dB(A) L characteristics	notes t a unit in eq. der of the	t in betw he time in which r notes the human o	een 6:00 a weighted a sobe is me strequency sat	m to 10 y verage c asured weight	of the level of ing in the me	time is reckoner sound in decide asurement of no	is on sca	een 10. Net A wit	ich is reil	elable to	human h	25.00
2] 3] 4] 5]	Day time to re "dB(A) Leg de A 'decibel' is i "A", in dB(A) L	notes t a unit in eq. der of the	t in betw he time in which r notes the human o	een 6:00 a weighted a sobe is me strequency sat	m to 10 y verage c asured weight	of the level of ing in the me	time is reckoner sound in decide asurement of no	is on sca	een 10. Net A wit	ich is reil	elable to	human h	25.000
41 57 Note	Day time to re "IB(A) Leg de A "decibel" is i "A", in dB(A) L characteristics Leg : It is the r results relate or at Report shall no estoner constant atomic details of	notes t a unit in eq. det of the energy ty to the ty to the register the ep	I in bothe be time in which in notes the human of released a reduced a released is evolved operating and a second operating and a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating second operating a second operating second operating se	een 6:00 a weighted a soble is me troble is me troble is me at. the noise i troble tested ors pre-atin clear labora used in mor	m to 10 y verage c asured v weight) evel over evel over g at the s tory.	of the level of ing in the me or a specified written approxi- me of samplin	time is reckoner sound in divide asurement of no- period.	lis on sca ise and o	een 10 t lie A wh omespo	ich is reil	elable to	human h	25.000
41 57 Note	Day time to re "dB(A) Leg de A "decibel" is a "A", in dB(A) L characteristics Leg : It is the a series. It i	notes t a unit in eq. det of the energy ty to the ty to the register the ep	I in bothe be time in which in notes the human of released a reduced a released is evolved operating and a second operating and a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating a second operating second operating a second operating second operating se	een 6:00 a weighted a soble is me troble is me troble is me at. the noise i troble tested ors pre-atin clear labora used in mor	m to 10 y verage c asured v weight) evel over evel over g at the s tory.	of the level of ing in the me or a specified written approxi- me of samplin	time is reckoner sound in decide asunement of noi period.	lis on sca ise and o	een 10 t lie A wh omespo	ich is reil	elable to	human h	25.000

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

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



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE			
Report No.	GW/23/0604		Report Date		24/04	/2023
Client Name & Address	GMR Goa Internati Administrative Bloc Taluka Pernem, Mo	k, Mopa Interr	national Airport, Dadad	hiwadi F	Road, M	Vagzar,
Order / Reference	As Per Dated 17/04/2023	Environme	intal Condition of Lab	Tem 24	And address of the owner	Humidity % 45
Sampling Plan	GLPL/QF/7.3/06	Sampling F	Procedure No.	APH	A 1060	i.
Sampling Point	WTP RO					
Sampling Details	WIP RO Inlet Wate	ar Sample	Date of Collection		17/04	2023
Sample Collected by	GLPL Representati	ve	Sample Received	On	17/04	2023
Analysis Started On	17/04/2023		Analysis Complete	d On	24/04	/2023
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		4 lit +	1.25 lit

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.53		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Not Specified	APHA 2160 B
4	Colour	< 1.0	Colour Unit	Not Specified	APHA 2120 8
5	Odour	Agreeable		Not Specified	APHA 2150 B
6	Total Alkalinity	20.21	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	52	mg/lit	500.00	APHA 2540 C
8	Chiorides as Cl	14.12	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO4	2.00	mg/lit	200.00	APHA 4500 SO42 E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S2F
11	Total Hardness as CaCO ₂	14	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0604	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	Sample Received on	17/04/2023
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Airpo Administrative Block, Mopa In Taluka Pernem, Mopa, North	ternational Airport, Dadachiw	adi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14	Residual Free Chlorine	NII	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NOs	0.040	mg/lit	45.00	APHA 4500 NOs 8
16	Fluoride as F	< 0.001	mg/lit	Not Specified	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	Not Specified	APHA 5530-8,C
18	Cyanide	< 0.001	mg/lit	Not Specified	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	Not Specified	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.001	mg/lit	0.03	IS 3025 (Part 2)
21	Arsenic as As	< 0.001	mg/lit	0,01	IS 3025 (Part 2)
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	4.01	mg/lit	Not Specified	APHA 3500 Ca B
24	Cadmium as Cd	< 0.001	.mg/lit.	0.003	APHA 3111 B
25	fron as Fe	0.052	mg/lit.	1.00	APHA 3111 B
26	Lead as Pb	< 0.001	mg/lit.	0,01	APHA 3111 B
27	Magnesium as Mg	0.97	mg/lit	Not Specified	APHA 3500 Mg B
28	Chromium as Cr	< 0.014	mg/lit.	Not Specified	APHA 3111 B
29	Mercury as Hg	< 0.001	mg/lit.	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	7.9	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.0049	mg/lit	0.05	APHA 3111 B

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TEST REPORT

Report No.	GW/23/0604	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	Sample Received on	17/04/2023
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37ºC for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - B
35	E Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - G

End

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Note:

1. Results relate only to the sample tested.

2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

- 3. Samples will be preserved for a period 15 days from the delivery of Test Report.
- 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.

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Equipment	Calibration	Details
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Sr.		Equipment Id	Certificate	Calibration Details		
No.	Equipment Name		No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hour	se Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01	(4	In hour	e Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023	
06.	ICP - OES	GL/EQ/ICP/01		in hour	se Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AVI/2207006	01/07/2022	30/06/2023	
05.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/69	17/04/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS	REPORT FOR	WATER SAMPLE			
Report No.	GW/23/0605		Report Date	2	4/04/202	23
Client Name & Address	GMR Goa Internation Administrative Block Taluka Pernem, Mo	k, Mopa Interna	tional Airport, Dadac	hiwadi Ro	ad, Nag	zar,
Order / Reference	As Per Dated 17/04/2023	Environmental Condition of Lab		And a state of the local division of the state of the sta	Temp °C Humidit 24.8 45	
Sampling Plan	GLPL/QF/7 3/06	Sampling Pr	ocedure No.	APHA 1060		
Sampling Point	PTB Dominos L2 Fo	ountain				
Sampling Details	PTB Dominos L2 W Sample	later Fountain	Date of Collection	1	17/04/2023	
Sample Collected by	GLPL Representative		Sample Received On		17/04/2023	
Analysis Started On	17/04/2023		Analysis Completed On		24/04/2023	
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity	4	4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	Ph	7.22		6.5-8.5	APHA 4500 H*
2	Turbidity	0,1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Not Specified	APHA 2160 B
4	Colour	< 1.0	Colour Unit	Not Specified	APHA 2120 B
5	Odour	Agreeable		Not Specified	APHA 2150 B
6	Total Alkalinity	80.8	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	25	mg/Sit	500.00	APHA 2540 C
8	Chlorides as Cl	9.08	mg/lit	250.00	APHA 4500 CH-8
9	Sulphate as SO4	0.75	mg/lit	200.00	APHA 4500 SO# E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 SPF
11	Total Hardness as CaCO ₂	10	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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TEST REPORT

Report No.	GW/23/0605	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	Sample Received on	17/04/2023
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NOa	0.004	mg/lit	45.00	APHA 4500 NOs B
16	Fluoride as F	< 0.001	mg/lit	Not Specified	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	Not Specified	APHA 5530-B.C
18	Cyanide	< 0.001	mg/lit	Not Specified	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	Not Specified	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.001	mg/lit	0.03	IS 3025 (Part 2)
21	Arsenic as As	< 0.001	mg/lit	0.01	IS 3025 (Part 2)
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 8 - 8
23	Calcium as Ca	2.40	mg/lit	Not Specified	APHA 3500 Ca 8
24	Cadmium as Cd	< 0.001	mg/lit	0.003	APHA 3111 B
25	Iron as Fe	0.077	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.001	rng/lit	0.01	APHA 3111 B
27	Magnesium as Mg	0.97	mg/lit	Not Specified	APHA 3500 Mg B
28	Chromium as Cr	< 0.014	mg/lit	Not Specified	APHA 3111 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/tit	5.00	APHA 3111 B
31	Sodium as Na	2.8	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.0049	mg/lit	0.05	APHA 3111 B

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TEST REPORT

Report No.	GW/23/0605	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	Sample Received on	17/04/2023
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - G

End

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Equipment Calibration Details

Sr.		Equipment	Certificate No.	Calibration Details		
No.	Equipment Name	Id		Calibration Date	Next Calibration Due Date	
01.	pH Moter	GL/EQ/pH/01		in hour	e Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01		In hous	se Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AV1/2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	16/10/2022	14/10/2023	
06.	ICP - OES	GL/EQ/ICP/01		In hour	se Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVV2207006	01/07/2022	30/06/2023	
08	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AV1/2207016	01/07/2022	30/06/2023	
09	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	17/04/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS	REPORT FOR	WATER SAMPLE					
Report No.	GW/23/0606		Report Date		24/04/2023			
Client Name & Address	Administrative Bloc	MR Goa International Airport Limited, dministrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, aluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 17/04/2023	Environmen	tal Condition of Lab	Temp ºC 1 24.8		Humidity % 45		
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060				
Sampling Point	PTB L2 Fountain			-				
Sampling Details	PTB L2 Water Four	ntain Sample	Date of Collection	tion 17/04/2023		2023		
Sample Collected by	GLPL Representative		Sample Received (On 17/04/2023		2023		
Analysis Started On	17/04/2023		Analysis Completed On		n 24/04/2023			
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		4 lit + 1.25 lit			

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.35		6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Not Specified	APHA 2160 B
4	Colour	< 1.0	Colour Unit	Not Specified	APHA 2120 B
5	Odour	Agreeable		Not Specified	APHA 2150 8
6	Total Alkalinity	10.10	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	27	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	9.08	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO4	0.50	mg/lit	200.00	APHA 4500 SOx2 E
10	Sulphides	< 0.001	rng/lit	Not Specified	APHA 4500 SPF
11	Total Hardness as CaCO ₂	12	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHz
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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TEST REPORT

Report No.	GW/23/0606	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	Sample Received on	17/04/2023
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₂	0.004	mg/lit	45.00	APHA 4500 NOs B
16	Fluoride as F	< 0.001	mg/lit	Not Specified	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	Not Specified	IS 3025
18	Cyanide	< 0.001	mg/lit	Not Specified	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	Not Specified	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.001	mg/lit	0.03	IS 3025 (Part 2)
21	Ansenic as As	< 0.001	mg/lit	0.01	IS 3025 (Part 2)
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - 8
23	Calcium as Ca	3.21	mg/lit	Not Specified	APHA 3500 Ca B
24	Cadmium as Cd	< 0.001	mg/lit	0.003	APHA 3111 B
25	Iron as Fe	< 0.049	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.001	mg/lit	0.01	APHA 3111 B
27	Magnesium as Mg	0.97	mg/lit	Not Specified	APHA 3500 Mg B
28	Chromium as Cr	< 0.014	mg/lit	Not Specified	APHA 3111 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0098	mg/lit.	5.00	APHA 3111 B
31	Sodium as Na	2.6	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.0049	mg/lit.	0.05	APHA 3111 B
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TEST REPORT

Report No.	GW/23/0606	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	s Per Dated 17/04/2023 Sample Received on	
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hts.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - G

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Note:

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Sr.		Equipment Id	Certificate	Calibration Details		
No.	Equipment Name		No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		in hour	se Calibration	
02	Turbidity Meter	GL/EQ/Turb/01	14	In hour	se Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/0/01	AVV/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023	
06	ICP - OES	GL/EQ/ICP/01		In hous	se Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023	
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	17/04/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	01/07/2022	30/05/2023	

Equipment Calibration Details



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TEST REPORT

	ANALYSIS	REPORT FOR	WATER SAMPLE			
Report No.	GW/23/0607		Report Date		24/04/2023	
Client Name & Address	GMR Goa Internatio Administrative Bloc Taluka Pernem, Mo	k, Mopa Interna	tional Airport, Dadac	hiwadi R	toad, N	lagzar,
Order / Reference	As Per Dated 17/04/2023	Environmen	Temp 24.	_	Humidity % 45	
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	APHA 1060			
Sampling Point	Admin Building 1# F	loor				
Sampling Details	Admin Building 1# F Fountain	Floor Water	Date of Collection	n	17/04/2023	
Sample Collected by	GLPL Representative		Sample Received On		17/04/2023	
Analysis Started On	17/04/2023		Analysis Completed On		24/04/2023	
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.42		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Not Specified	APHA 2160 B
4	Colour	< 1.0	Colour Unit	Not Specified	APHA 2120 B
5	Odour	Agreeable		Not Specified	APHA 2150 B
6	Total Alkalinity	20.21	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	56	mg/lit.	500.00	APHA 2540 C
8	Chlorides as Cl	12.11	mg/lit	250.00	APHA 4500 CI-B
0	Sulphate as SO4	3,25	mg/lit	200.00	APHA 4500 SO42 E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 SPF
11	Total Hardness as CaCOs	20	img/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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TEST REPORT

Report No.	GW/23/0607	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	Sample Received on	17/04/2023
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI 8
15	Nitrate as NO ₃	0.016	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	Not Specified	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	Not Specified	IS 3025
18	Cyanide	< 0.001	mg/lit	Not Specified	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	Not Specified	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.001	mg/lit	0.03	IS 3025 (Part 2)
21	Arsenic as As	< 0.001	mg/lit	0.01	IS 3025 (Part 2)
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	5.61	mg/lit	Not Specified	APHA 3500 Ca B
24	Cadmium as Cd	< 0.001	mg/lit	0.003	APHA 3111 B
25	Iron as Fe	< 0.049	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.001	mg/lit	0.01	APHA 3111 B
27	Magnesium as Mg	1.46	mg/lit	Not Specified	APHA 3500 Mg B
28	Chromium as Cr	< 0.014	mg/lit	Not Specified	APHA 3111 B
29	Mercury as Hg	< 0.001	img/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	7.4	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.0049	mg/lit	0.05	APHA 3111 B

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TEST REPORT

Report No.	GW/23/0607	Report Date	24/04/2023
Order / Reference	As Per Dated 17/04/2023	Sample Received on	17/04/2023
Analysis Started On	17/04/2023	Analysis Completed On	24/04/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - G

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Note:

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Page 3 of 3

Equipment	Calibration	Details
-		

Sr.		Equipment	Certificate No.	Calibration Details		
No.	Equipment Name	Id		Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hour	e Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01		in hour	e Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023	
06.	ICP - OES	GL/EQ/ICP/01		In house Calibration		
07.	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AVI/2207006	01/07/2022	30/06/2023	
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVV2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	17/04/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVV/2207017	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS REPORT	FOR WA	TER SAMPLE				
Report No.	GW/23/0591	Report Date	19/0	4/2023			
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 13/04/2023	Environmental Condition of Lab		Temp 50 30.0	Humidity % 46		
Sampling Plan	GLPL/QF/7.3/06	Samplin	Procedure No.	APHA 1060			
Sampling Point	STP Inlet	-					
Sampling Details	STP Inlet Water Sample	1	Date of Collection	13/04/2023			
Sample Collected by	GLPL Representative		Sample Received On		4/2023		
Analysis Started On	13/04/2023		Analysis Completed C		4/2023		
Sample Container	Plastic Carboy + Glass Bot	tie !	Sample Quantity		5 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	Ph	7.08	÷.	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	805	rng/lit	APHA 5220 B
3	Biochemical Oxygen Demand (27 ⁶ C day) (BOD)	286	mg/lit	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	86	mg/iit	APHA 2540 D
5	Oil & Grease (O & G)	8	mg/lit	APHA 5520 B
6	Ammonia	86.69	mg/iit	APHA 4500 NH2 B&C
7	Total Nitrogen (as N)	98.89	mg/iit	APHA 4500-Norg

Microbiological Parameters:

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

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For GADARK LAB PVT. LTD.

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Equipment Calibration Details

Sr.		10.000	Certificate	Calibration Details		
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	×.	In hour	se Calibration	
02	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023	
03;	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023	
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023	
05.	Microbiological Incubator (37 ° C)	GL/EQ/7-01	AVI/2207006	01/07/2022	30/06/2023	
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023	
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	13/04/2023	15/02/2024	
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS	REPORT FOI	R WATER SAMPLE			
Report No.	GW/23/0592	Report Date	Report Date		2023	
Client Name & Address	GMR Goa Internati Administrative Bloc Taluka Pernem, Mo	k, Mopa Interr	national Airport, Dadao	hiwadi	Road, M	lagzar,
Order / Reference	As Per Dated 13/04/2023	Environmental Condition of Lab		Temp °C 30.0		Humidity % 46
Sampling Plan	GLPL/QF/7.3/06	Sampling F	Procedure No.	APH	A 1060	
Sampling Point	STP Outlet		74	IT - C - IT -		
Sampling Details	STP Outlet Water 5	Sample	Date of Collection	13/04		2023
Sample Collected by	GLPL Representati	GLPL Representative		Received On 13/04/		2023
Analysis Started On	13/04/2023		Analysis Complete	lysis Completed On 19/04/2		2023
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	8.13		5.5-9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	40	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	14	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	2.69	mg/lit	5.00	APHA 4500 NH3 B&C
7	Total Nitrogen (as N)	6.83	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

8	Fecal Coliform at 44.5°C for 24 hrs.	47	MPN Index/100ml	100	APHA 9221 E
		-	End		

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

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Equipment Calibration Details

Sr. Contract Manager			Certificate	Calibration Details			
No.	Equipment Name Equipment Id No.		Calibration Date	Next Calibration Due Date			
01.	pH Meter	GL/EQ/pH/01	1.00	In house Calibration			
02.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023		
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023		
04.	BOD Incubator	GL/EQ/V02	AVI/2207014	01/07/2022	30/06/2023		
05.	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AV1/2207006	01/07/2022	30/06/2023		
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023		
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	13/04/2023	15/02/2024		
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023		



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TEST REPORT

		AMBIENT AIR QUALIT	TY MONITORING REPORT				
Report Date	03/0	3/06/2023					
Name of Client	M/s	GMR GOA INTERNATIONAL AIRPORT LIMITED					
Address of Client			MOPA INTERNATIONAL AIRPORT, D M, MOPA, NORTH GOA 403512.	ADACHIWADI ROAD,			
Sampling Plan	GLP	L/QF/7.3/08	Page No.	1 of 1			
Sample Collected By	GLP	L Representative					
Month of Sampling	May	May 2023					
		AMBIENT	AIR LOCATION				
sation of Amblent Air Station Mopa Boundry - Goa State (G-A1)							
Average Ambient Temperature (°C) 34.5 Average Humidity (%)				80			

Average Ambient Temperature (*C)	34.5	Average Humiday (%)	80
Average Wind Speed (km/hr)	42	Average Wind direction (Deg)	278
Latitude	N 15"45'51.1"	Longitude	E 73*56'32.4'
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr.	Date of	Description of the	PARAMETERS								
No.	Sampling	Report No.	SPM	PMni	PML8	SOI	NOx	co	CO2	Lead	VOC
1	01.05.2023	GA/23/1023	118.1	67.12	20.21	<6.0	< 9.0	0.39	51.3	0.13	< 1.0
2	04.05.2023	GA/23/1083	133.5	84.13	35.84	< 6.0	< 9.0	0.84	139.2	0.08	< 1.0
3	08.05.2023	GA/23/1152	116.2	76.70	40.34	<6.0	< 9.0	0.60	121.6	0.06	< 1.0
4	11.05.2023	GA/23/1230	132.2	69.04	41.21	< 6.0	< 9.0	0.63	107.3	0.07	<1.0
5	15.05.2023	GA/23/1291	147.6	61.57	37.26	< 6.0	< 9.0	0.78	108.6	0.05	< 1.0
8	18.05.2023	GA/23/1336	160.1	76.44	35.22	< 6.0	< 9.0	0.37	63.9	0.10	< 1.0
7	22.05.2023	GA/23/1387	139.6	85.73	26.86	< 6.0	< 9.0	0.53	70.5	0.05	< 1.0
8	25.05.2023	GA/23/1459	122.5	69.62	21.17	< 6.0	< 9.0	0.48	\$3.2	0.06	< 1.0
6	29.05.2023	GA/23/1501	108.7	74.84	25.16	< 6.0	< 9.0	0.51	95.2	0.07	< 1.0
	NAAQS LI	MITS	-	100	60	80	80	2	-	1	+
	UNIT	5	µg/m ³	hðu,	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
	METH	00	15 \$182 (Part 4)	.05.51182 (Part XX80) 2006	USEPA FEM, 40 CFR Part 50, Appendix 1, 2014-2018	(5 5162 (Part II) 2001	15.5182 (Part VI) 2006	15 5182 (Part X) 1000	GC Method	45.5182 (Part XXR) 2004	EPA Method 18

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

Note (

1. The results within trily hi the samples tested.

2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

5 Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Tast Results relate only to the conditions preceding at the time of sampling.

5. Customer complaint register is available at laboratory

6 Calibration details of the equipment's used in monitoring and / or analysis to back side of analysis report. For GADARK LAB PVT. LTD.

Senoula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR] CHECKED BY

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

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



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, Hinduatan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbal – 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

	AMBIENT AIR QUALITY N	IONITORING REPORT					
Report Date	03/06/2023						
Name of Client	M/s. GMR GOA INTERNATIONA	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 2023	May 2023					
	AMBIENT AIR	LOCATION					
stilles of Architect Air Station Chemoshers Area, Cas Clats (C. 43)							

A man of Personnel Pill Grander	Outprocessing 2019	stata (cs-Art)	
Average Ambient Temperature (*C)	35	Average Humidity (%)	78
Average Wind Speed (km/hr)	40.8	Average Wind direction (Deg)	278
Latitude	N 15*42'06.1"	Longitude	E 73*49'21.5"
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr.	Date of	Descent Max			(PAR	AMETERS				
No.	Sampling	Report No.	SPM	PMite	PM2.8	SOI	NOx	co	COs	Lead	VOC
1	01.05.2023	GA/23/1022	142.0	74.35	22.95	< 6.0	< 9.0	0.72	138.3	0.08	< 1.0
2	04.05.2023	GA/23/1082	159.0	78.24	40.29	< 6.0	< 9.0	0.68	145.5	0.05	< 1.0
3	08.05.2023	GA/23/1151	128.1	67.21	45.91	< 6.0	< 9.0	0.52	110.0	0.08	< 1.0
4	11.05.2023	GA/23/1229	154.5	61.86	40.42	< 6.0	< 9.0	0.58	84.2	0.08	< 1.0
5	15.05.2023	GA/23/1290	171.3	56.51	36.30	< 6.0	< 9.0	0.62	88.3	0.04	< 1.0
6	18.05.2023	GA/23/1335	148.2	71.50	28.11	< 6.0	< 9.0	0.41	58.7	0.03	< 1.0
7	22.05.2023	GA/23/1386	124.7	79.21	20.17	< 6.0	< 9.0	0.87	120.5	0.06	< 1.0
8	25.05.2023	GA/23/1458	111.0	60.92	10.94	<6.0	< 9.0	0.80	101.9	0.06	< 1.0
1	29.05.2023	GA/23/1500	94.4	65.90	22.04	< €.0	< 9.0	0.38	73.6	0.07	< 1.0
	MAAQS LI	MITS *		100	60	80	80	2	-	1	
	UNIT	ŝ	µg/m ²	hiliyw ₂	µg/m ³	13/23	ug/m ³	regim ³	ppm	µg/m ³	ppm
	METHO	00	15 5182 (Part 4)	15 5182 (Part 3008) 2008	USEPA FEM, 45 CFR Part 50, Appenda- L, 2014-2016	15 5182 (Part II) 2001	(5.5182 (Part VI) 2508	15 5182 (Pwt X) 1990	DC Method	(Part (Part XXX) 2504	EPA Method 18

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

Note :

1. The results reliefs only to the samples tested.

2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

3. Samples will be preserved for a period 16 days from the delivery of Tast Report.

A. Test Results relate only to the conditions prevailing at the time of sampling

5. Customer complaint register is available at laboratory

6. Calibration details of the ecopment's used in monitoring and 7 or analysis is back side of analysis inport.

For GADARK LAB PVT. LTD.

Sunoula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR] CHECKED BY

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

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Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 936-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 476-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 471-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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 I	MONITORING REPORT							
Report Date	03	06/2023								
Name of Client	1M/	. GMR GOA INTERNATION	AL AIRPORT LIMITED							
Address of Client	AD NA	MINISTRATIVE BLOCK, MO	NISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, AR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							
Sampling Plan	GL	PL/QF/7.3/06	Page No.	1 of 1						
Sample Collected By	GL	PL Representative								
Month of Sampling	Ma	y 2023								
		AMBIENT AIR	LOCATION							
Location of Ambient Air	Station	Nagzar – Goa State (G-A3)								
orage Ambiant Temp	erature (°C)	35	Average Humidity (%)	80						
Average Wind Speed (k	m/ht)	38.2	Average Wind direction (Deg)	259						
Latitude		N 15*45'37.3*	E 73*53'14.22"							
Instrument Used		FPS (APM - 550)	RDS (APM ~ 460)	GPS (APM - 411)						
Sr. Date of			PARAMETERS							

Sr.	Date of Sampling	Report No.	PARAMETERS								
No.		Heport No.	SPM	PMte	PM2.8	502	NOx	co	COs	Load	VOC
1	01.05.2023	GA/23/1015	164.6	90.99	27.32	<6.0	< 9.0	0.47	105.9	0.06	< 1.0
2	04.05.2023	GA/23/1075	179.5	91.78	40.34	<6.0	< 9.0	0.79	115.0	0.03	< 1.0
3	06.05.2023	GA/23/1144	157.5	88.19	45.87	< 6.0	< 9.0	0.82	123.4	0.05	< 1.0
4	11.05.2023	GA/23/1222	179.5	87.37	39.92	< 6.0	< 9.0	0.69	105.5	0.06	< 1.0
5	15.05.2023	GA/23/1283	193.7	93.29	36.43	< 6.0	< 9.0	0.89	122.3	0.03	< 1.0
6	18.05.2023	GA/23/1328	177.7	91.69	30.85	< 6.0	< 9.0	0.45	87.8	0.05	< 1.0
7	22.05.2023	GA/23/1379	163.8	89.19	32.48	< 6.0	< 9.0	0.66	112.0	0.04	< 1.0
8	25.05.2023	GA/23/1451	185.1	89.68	35.60	< 6.0	< 9.0	0.36	88.2	0.03	< 1.0
.9	29.05.2023	GA/23/1493	164.0	90.13	23.74	< 6.0	< 9.0	0.80	105.9	0.04	< 1.0
1	NAAQS LIM	ITS*	-	100	60	80	80	2	-	1	-
	UNITS		µg/m ³	hðiu ₂	µg/m ³	sig/m ³	µg/m ²	mg/m ³	ppm	µg/m ³	ppm
METHOD		65 5142 (Part 4)	(5 5162 (Piet XXII) 3005	USEPA FEM, 40 CFR Pwt 50, Appendia- L, 2014-3018	15.5182 (Pwt10) 2001	15 5182 (Part VI) 2508	155.8142 (Piet3Q) 1969	GC Method	65.5182 (Part XX0) 2004	EPA Method 18	

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note

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2 Test Report shall not be reproduced except in full, without written approval of the laboratory 3. Samples will be preserved for a period 15 days trum the delivery of Test Report.

4. 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 teach side of analysis report. For GADARK LAB PVT. LTD.

Stewalu AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

CHECKED BY

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

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KUDA

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 847-DTJ-2019	08/10/2022	08/10/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6896-DTC-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbal - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0061 + +91 93213 12367

TEST REPORT

			AMBIE	INT AIR QU	ALITY MC	NITORING	REPORT							
Report Date 03/06/2023														
Name	of Client		M/s. GMR G	OA INTERN	NATIONAL	AIRPORT	IMITED							
				MINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, GZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.										
Samp	ling Plan		GLPL/QF/7.	3/06			Page No.			1 of 1				
Sample Collected By GLI			GLPL Repre	sentative		- V								
Month of Sampling Ma			May 2023	tay 2023										
				AMBIE	ENT AIR LO	OCATION								
)cati	ion of Ambient	Air Station	Purva	Purva Casarvamem - Goa State (G-A4)										
Average Ambient Temperature (°C)		C)	34		Average Humidity (%)			75						
Average Wind Speed (km/hr)			32		Average Wind direction (Deg)			255						
Listitud	Latitude			N 15*41'41.9"		Longitude			E 73*50'16.6*					
instru	strument Used			FPS (APM - 550) RDS (APM - 460)					GPS (APM - 411)					
Sr.	Date of	Photos Photos	1			PAR	AMETERS	1						
No.	Sampling	Report No.	SPM	PM	PMLA	SOI	NOx	co	COz	Lead	VOC			
1	01.05.2023	GA/23/101	6 127.4	71.81	22.83	< 6.0	< 9.0	0.63	121.6	80.0	< 1.0			
2	04.05.2023	GA/23/107	5 146.6	85.66	25.86	< 6.0	< 9.0	0.90	123.0	0.05	< 1.0			
3	08.05.2023	GA/23/114	5 124.7	78.62	40.71	< 6.0	< 9.0	0.58	112.3	0.05	< 1.0			
4	11.05.2023	GA/23/122	3 149.5	68.99	32.93	< 6.0	< 9.0	0.81	126.9	0.03	< 1.0			
5	15.05.2023	GA/23/128	4 170.7	61.26	34.76	< 6.0	< 9.0	0.59	67.5	0.02	< 1.1			
6	18.05.2023	GA/23/132	9 149.5	73.64	26.99	< 6.0	< 9.0	0.72	98.6	0.04	< 1.			
7	22.05.2023	GA/23/138	0 137.2	81,33	30.36	< 6.0	< 9.0	0.45	80.3	0.04	< 1.0			
	and the second se	the second design of the secon	a construction of the second se				and the second s			and the second se	-			

		and the second se	and the second se			1						
)Æ	25.05.2023	GA/23/1452	149.5	73.41	41.50	< 5.0	< 9.0	0.62	98.2	0.06	< 1.0	
9	29.05.2023	GA/23/1494	134.1	62.64	22.75	< 6.0	< 9.0	0.65	124.2	0.06	< 1.0	
	NAAQS LE	MITS *	-	100	60	80	80	Z	-	1		
	UNITS		UNITS µg/m ³		µg/m³ µg/m³	³ µg/m ³	µg/m ³	µg/m ³	im ³ mg/m ³	ppm	µg/m ³	ppm
METHOD		15.5182 (Pwt 4)	15 5182 (Part XXIII) 2908	USEPA FEM, 40 CFR Part 50, Appendia- L, 2014-3016	15 8182 (Plant A) 2001	15 5182 (Part VI) 2508	IS 5182 (Part X) 1998	GC Method	15.5182 (Part XX0) 2004	EPA Method 18		

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

Note :

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 Test Results relate only to the conditions prevailing at the time of earnpling.

 Test results recent only to the constored prevency at the 5. Customer compleint register is evaluated at leboratory.

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

For GADARK LAB PVT. LTD.

Seamula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR] CHECKED BY

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

KUDA

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (Went), Mumbai – 83. Tel. (022) 2577 7069 / 2577 7079 / 2085 0091 • +91 93213 12367

TEST REPORT

				the second se	1111 2 2 2 2 2 2 2 2 2	CONTRACT/CONTRACT						
			AMBI	ENT AIR QU	ALITY MO	NITORING	REPORT					
Report Date 03/06/2023												
Name of Client M/s			M/s. GMR	OA INTERN	ATIONAL	AIRPORT	IMITED					
Addre	ess of Client					A INTERNAT			DADACHI	WADI RO	AD,	
Samp	ling Plan		GLPL/QF/7	3/06			Page No.			1 of 1		
Samp	le Collected B	y.	GLPL Repr	esentative								
Month	n of Sampling		May 2023									
				AMBIE	INT AIR LO	DCATION						
Locat	ion of Ambient	Air Station	Khaji	ne Amere P	orscoden	- Goa Sta	te (G-A5)	11 C				
erage Ambient Temperature (°C)			C)	34.5		Average H	82					
Average Wind Speed (km/hr)				30.5			Average Wind direction (Deg)			267		
atitude				N 15*40'38.0"			Longitude			E 73*46'21.2'		
Instru	nstrument Used			FPS (APM - 550)			RDS (APM - 460)			GPS (APM ~ 411)		
Sr.	Date of	Report No		PARAMETERS							_	
No.	Sampling	Hoport No	5PM	PMu	PM _{2.8}	SOz	NDx	co	COr	Lead	VOC	
1	01.05.2023	GA/23/101	7 53.6	52.08	15.01	< 6.0	< 9.0	0.55	85.3	0.11	< 1.0	
2	04.05.2023	GA/23/107	7 66.2	55.39	20.96	< 6.0	< 9.0	0.67	104.2	80.0	= 1.0	
3	08.05.2023	GA/23/114	6 68.1	53.88	25.41	< 6.0	< 9.0	0.49	113.9	0.07	< 1.6	
-4	11.05.2023	GA/23/122	4 84.9	57.19	22.00	< 6.0	< 9.0	0.65	130.2	0.05	< 1.1	
5	15.05.2023	GA/23/128	5 102.6	68.19	23.00	< 6.0	< 9.0	0.45	65.4	0.04	< 1.1	
6	18.05.2023	GA/23/133	88.8	59.85	24.99	< 6.0	< 9.0	0.62	103.6	0.07	< 1.0	
7	22.05.2023	GA/23/138	1 78.5	68.13	27.90	< 6.0	< 9.0	0.52	85.8	0.05	< 1.0	
8	25.05.2023	GA/23/145	3 64.1	59.47	16.92	< 6.0	< 9.0	0.41	64.6	0.05	< 1.0	
30	29.05.2023	GA/23/149	5 55.5	65.27	11.14	< 6.0	< 9.0	0.63	97.7	0.05	<1.	
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-	
	1009112	-		1 1 1							-	

UNITS	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³
METHOD	15 5182 (Part 4)	[Part XXH]	USEPA PEM, 40 CFR Part	(5.8182 (Part.II)	(5 5182 (Part VI)	15-5182 (Part X)	in and in section of the section of the	

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

Note :

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2. Test Report shall not be reproduced except in full, without written approval of the latoratory

3. Gamples will be preserved for a period 15 days from the delivery of Tasl Report.

4. Test Results retaile only to the conditions prevailing at the time of sampling

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

For GADARK LAB PVT. LTD.

Seconder

AUTHORISED SIGNATORY [SACHIN B. GAONKAR] ₹.

CHECKED BY

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

Method 16

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT					
Report Date	03/	06/2023						
Name of Client	M/1	. GMR GOA INTERNATION	AL AIRPORT LIMITED					
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,				
Sampling Plan	GL	PL/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GL	PL Representative						
Month of Sampling	Ma	y 2023						
		AMBIENT AIR	LOCATION					
ocation of Ambient Air S	tation	Rajvil Wada Torxem - 0	3oa State (G-A6)					
verage Ambient Temper	sture (*C)	34	Average Humidity (%)	80				
Average Wind Speed (km	vînir)	35	Average Wind direction (Deg)	260				
Latitude		N 15°48'40.0"	Longitude	E 73*52'50.2'				
Instrument Used		FPS (APM - 550) RDS (APM - 460) GPS (APM -						
Sr. Date of	port No.		PARAMETERS					

Sr.	Date of	Report No.	PARAMETERS								
No.	Sampling	napors no.	SPM	PM ₁₀	PMLs	\$01	NOx	co	CO,	Lead	VOC
1	01.05.2023	GA/23/1020	132,3	66.48	21.67	< 6.0	< 9.0	0.71	79.1	0.09	< 1.0
2	04.05.2023	GA/23/1080	149.5	74.83	31.60	< 6.0	< 9.0	0.50	78.8	0.07	< 1.0
3	08.05.2023	GA/23/1149	121.1	67.60	37.59	< 6.0	< 9.0	0.63	98.5	0.08	< 1.0
4	11.05.2023	GA/23/1227	143.9	61.49	36.22	< 6.0	< 9.0	0.82	79.8	0.08	< 1.0
5	15.05.2023	GA/23/1288	163.9	67.03	34.02	< 6.0	< 9.0	0.41	70.6	0.03	< 1.0
6	18.05.2023	GA/23/1333	146.0	76.48	17.51	< 6.0	< 9.0	0.74	90.5	0.05	< 1.0
7	22.05.2023	GA/23/1384	124.7	72.45	24.24	< 8.0	< 9.0	0.64	94.8	0.06	< 1.0
8	25.05.2023	GA/23/1456	114.3	58.28	18.42	< 6.0	< 9.0	0.53	98.6	0.07	< 1.0
)0	29.05 2023	GA/23/1498	100.6	69.21	20.58	< 8.0	< 9.0	0.61	110.1	0.05	< 1.0
	NAAQS LI	MITS *	- 44	100	60	80	80	2	-	1	-
	UNIT	s	hðiu ₃	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ¹	ppm
METHOD		15 8182 (Part 4)	10:5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendia- L, 2014-2016	15.5182 (Part II) 2001	15.5182 (Pixt VI) 2006	(5:5152 (Part X) 1909	GC Method	IB 5152 (Pad XXR) 2004	EPA Method 18	

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note :

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Test Results ratios only to the conditions prevailing at the time of sampling.
 Gustemer complaint register is available at laboratory.

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

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

CHECKED BY

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 935-DTA-2015	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2023	15/05/2024
Gaseoue Sampler Sr. No. 262-D-22	16/05/2023	15/05/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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 I	MONITORING REPORT							
Report Date	03/0	06/2023								
Name of Client	M/s	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED								
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,						
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1						
Sample Collected By	GLF	GLPL Representative								
Month of Sampling	May	2023								
	1	AMBIENT AIR	LOCATION							
Location of Ambient Air Sta	tion	Satarda - Maharashtra	State (M-A1)							
verage Amblent Temperat	tune (*C)	34.5	Average Humidity (%)	76						
Average Wind Speed (km/h	r)	28.4	Average Wind direction (Deg)	238						
Latitude		N 15*43'01.3"	Longitude	E 73*46'00.2"						
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)						

Sr.	Date of	Report No.	1	PARAMETERS								
No.	Sampling	risport no.	SPM	PM _{TE}	PMLS	501	NOx	CO	CO2	Lead	VOC	
1	01.05.2023	GA/23/1018	90.7	61.67	20.54	< 6.0	< 9.0	0.71	123.4	0.09	< 1.0	
2	04.05.2023	GA/23/1078	104,7	66.53	23.83	< 6.0	< 9.0	0.42	77.7	0.10	< 1.0	
3	08.05.2023	GA/23/1147	82.0	60.80	37.43	< 6.0	< 9.0	0.48	92.2	0.07	+ 1.0	
4	11.05,2023	GA/23/1225	104.7	61.30	29.61	< 6.0	< 9.0	0.71	107.4	0.09	+ 1.0	
5	15.05.2023	GA/23/1286	117.5	62.83	21.12	< 6.0	< 9.0	0.93	98.3	0.03	< 1.0	
6	18.05.2023	GA/23/1331	98.6	66.71	23.54	< 6.0	< 9.0	0.42	63.0	0.06	< 1.0	
7	22.05.2023	GA/23/1382	77.8	79.05	21.83	< 6.0	< 9.0	0.57	70.4	0.06	< 1.0	
8.	25.05.2023	GA/23/1454	62.7	64.47	18.05	<8.0	< 9.0	0.43	72.1	0.08	< 1.0	
9	29.05.2023	GA/23/1496	57.1	65.97	24.74	< 6.0	< 9.0	0.51	98.3	0.05	< 1.0	
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-	
	UNIT	S	µg/m ³	µg/m ²	µg/m ³	µg/m ³	hðluu ₃	mg/m ²	ppm	µg/m ³	ppm	
	METHOD		15 5182 (Part 4)	15 5182 (Part KX0) 2006	USEPA FEM. 40 CFR Part 50. Approxis- L. 2014-2016	15 9182 (Part II) 2001	15.5182 (Part V) 2006	15.0182 (Part K) 1090	GC Method	15.5182 (Part 3000 2004	EPA SAethol 18	

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

Note 1 1. The results relate only to the samples leaded.

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 Customer compliant register is available at laboratory.

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

For GADARK LAB PVT. LTD. Senoula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

CHECKED BY

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

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	03/0	06/2023							
Name of Client	M/s	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED							
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,					
Sampling Plan	GLF	PL/QF/7.3/08	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	May	2023							
		AMBIENT AIR	LOCATION						
poation of Ambient Air Sta	tion	Dingane - Maharashtra	e – Maharashtra State (M-A2)						
Average Ambient Temperat	ture (*C)	35	Average Humidity (%)	80					
Average Wind Speed (km/h	r)	40	Average Wind direction (Deg)	284					
Latitude		N 15*46'12.3*	Longitude	E 73*49/20.5*					
Instrument Used		FPS (APM - 550)	RDS (APM - 450)	GPS (APM - 411)					

Sr.	Date of	Report No.		PARAMETERS								
Na.	Sampling	Report No.	SPM	PMu	PM15	SOz	NOx	co	COz	Lead	VOC	
1	01.05.2023	GA/23/1021	78.5	52.85	18.80	< 6.0	< 9.0	0.37	73.4	0.08	< 1.0	
2	04.05.2023	GA/23/1081	97.1	57.24	25.37	< 6.0	< 9.0	0.93	147.3	0.02	< 1.0	
3	08.05.2023	GA/23/1150	78.4	52.89	11.73	< 6.0	< 9.0	0.49	109.0	0.05	< 1.0	
4	11.05.2023	GA/23/1228	90.9	55.29	19.67	< 6.0	< 9.0	0.72	97.1	0.07	< 1.0	
5	15.05.2023	GA/23/1289	108.0	67.81	21.29	< 6.0	< 9.0	0.59	93.8	0.02	< 1.0	
6	18.05.2023	GA/23/1334	95.7	60.43	16.18	< 6.0	< 9.0	0.39	50.8	0.03	< 1.0	
7	22.05.2023	GA/23/1385	77.9	57.22	27.78	< 6.0	< 9.0	0.91	121.3	0.08	< 1.0	
8	25.05.2023	GA/23/1457	55.5	39.97	13.89	< 6.0	< 9.0	0.61	109.9	0.05	< 1.0	
9	29.05.2023	GA/23/1499	44.2	50.64	16.22	< 6.0	< 9.0	0.36	78.4	0.06	< 1.0	
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-	
	UNIT	s	pg/m ³	µg/m ²	µg/m ³	µg/m ³	µg/m ^s	mg/m ³	ppm	ug/m ²	ppm	
	METHOD		(Fat.4)	15 6182 (Part 8X00) 2008	USEPA FEM. 45 CFR Part 50, Appendia- 1, 2014-2018	IE 5182 (Part II) 2001	(0.5182 (Plat VI) 2008	15 5182 (Part X) 1998	GC Method	ID 5182 (Pwt XXII) 2004	EPA Method 18	

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

Note :

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. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Heaults relate only to the contitions prevailing at the time of sampling.

Customer comptaint register is a valiable at laboratory.
 Calibration details of the equipment's used in monthring and / or analysis is back side of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY (SACHIN B. GAONKAR)

CHECKED BY

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

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 7	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1955-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	17/02/2023	16/02/2024
Gaseoue Sampler Sr. No. 1440-DTJ-2014	17/02/2023	16/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 825	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

			AMBI	ENT AIR QU	ALITY MO	NITORING	REPORT				_		
Repo	t Date		03/06/2023										
Name	of Client		M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED										
Addre	ss of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.										
Samp	ling Plan		GLPU/QF/7	PL/QF/7.3/06 Page No.						1 of 1			
Samp	le Collected B	y I	GLPL Representative										
Month	of Sampling		May 2023										
				AMBIE	INT AIR LO	OCATION							
Locati	on of Ambient	Air Station	Netarde - Maharashtra State (M-A3)										
verage Ambient Temperature (*C)			C)	34			umidity (%	72					
Average Wind Speed (km/hr)			24.3		Average Wind direction (Deg)			242					
Latitu	de			N 15*46*11.7*				E 73°53'47.0"					
Instru	ment Used		1	PPS (APM -	550)	RDS (APM - 460)			GPS (APM - 411)				
Sr.	Date of	Distance Mar				PAR	AMETERS						
No.	Sampling	Report No.	SPM	PMut	PM3.8	SO2	NOx	CO	CO;	Lead	VOC		
1	01.05.2023	GA/23/101	9 36.4	52.55	18.26	< 6.0	< 9.0	0.82	120.3	0.06	< 1.0		
2	04.05.2023	GA/23/1079	9 47.9	59.80	20.87	< 6.0	< 9.0	0.70	140.5	0.04	< 1.0		
3	08 05 2023	GA/23/114	8 43.7	54.09	21.37	< 6.0	< 9.0	0.69	126.0	0.10	< 1.0		
4	11.05.2023	GA/23/122	62.3	59.67	22.54	< 6.0	< 9.0	0.55	112.3	0.05	< 1.6		
5	15.05.2023	GA/23/1287	7 70.1	51.74	23.87	< 6.0	< 9.0	0.87	115.4	0.02	< 1.0		
6	18.05.2023	GA/23/1332	2 55.8	66.11	10.69	< 6.0	< 9.0	0.49	68.3	0.05	< 1.1		
-											and the second s		

8	25.05.2023	GA/23/1455	25.7	51.65	10.19	< 6.0	< 9.0	0.46	81.4	0.05	< 1.0
)9	29.05.2023	GA/23/1497	21.9	54.52	14.22	< 6.0	< 9.0	0.67	125.4	80.0	< 1.0
	NAAQS LIMITS *		-	100	60	80	80	2	-	1	-
	UNITS		µg/m ³	ug/m ³	µg/m³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
	METHOD			85.5182 (Part XX20) 2008	USEPA FEM 40 CFR Pat 50, Appendis- 6, 2014-2018	15:3183 (Part IQ 2001	15 5182 (Part VI) 2008	15.5182 (Part.X) 1998	GC Method	(5 5182 (Pait XXI) 2004	EPA Method 18

22.05.2023 GA/23/1383 42.0 51.99 12.56 < 6.0 < 9.0 0.74 130.5 0.06 < 1.0

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

5. This results reliate only to the samples tested.

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2. Test Report shall not be reproduced except in NR, without written approval of the lationatory.

3. Samples will be preserved for a period 15 days from the delivery of Test Report.

A. 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.

BERRISER

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

CHECKED BY

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

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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. 942-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 477-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 470-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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GADARK LAB PVT. LTD.

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TEST REPORT

Rep	ort Date		03/06	/2023										
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_				AMBIE	AIA IN	NOISE P	OLLUTION M	And in case of the local division of the loc	And a start of the		Night Time Noise			
Sr. No.	Date of Sampling	Rep	Report No. 81ation Zone		Sampling Location		1	Time No In citicA)	1111		IN UDLA	1		
1	16:05 2023	17.6.15	5/1321	G-NT		Moga Bou	and the state of t	40.1	88.3	No.2	40.7	1.0	43	
2	18.85 2023	and the second second	3/1365	GAD		Shemeche	a series and a second se	30.1	87.3	53.3	29.7	88.2	44.	
3	10.05.2025	and a start	3/1200	GAS	C	Nagziar		31.8	82.1	55.3	27.8	72.4	45.1	
4	01-05 2023		3/1127	G-N4	R	Statistics and the second	Purvs Casarvaneth		85.9	53.0	24.3	50.0	44.1	
8	10.05.2023	and the second second	3/1201	G-86	- R.	Chandel		32.4	96.5	54.8	29.3	73.3	40.	
8	06.05.2023	10000	3/1128	G-N6	R	And the second second second	when Porscodern	26.1	74.8	51.1	25.4	51.7	37	
7	01.05.2023	and the local division of the local division	3/1052	G-N/		Waithand		33.2	84.9	54.4	30.0	81.9	44.4	
	02.85.2023		3/1054	G-N8	C	Savi Wada Torsen		34.2	90.8	57.9	33.4	64.9	51.1	
9	01.05.2523	and strends	3/1061	GAB	C	Village For	and the second se	33.6	05.5	878	31.2	79.7	53.	
10	02.85.2023	6A/2	3/1053	MANT	R	Satarda	and the second second	33.8	74.2	54.8	33.2	80.8	43.	
11	05.05.2023	GA/2	3/1112	18.402	-	Organa		26.8	62.2	48.1	25.4	65.2	37.	
12	05 05 2025	EA.7	9/1110	M-N3	11	Netarde		22.3	88.1	54.4	22.4	62.8	40.7	
-	100000000000000000000000000000000000000		I-Ind	ustrial Zo	me, C	- Comme	rcial Zone, R	- Real	dential	Zone			-	
12.1	Noise Links as	per da	hedule I	It of "The f	Invitation in	writ (Protect	kont Rules, 1986	are 44.1	ofiows			-		
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	CHIN B. GAO					1.C	1			101710	oreach.			

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

	ANALYSIS F	REPORT FOR	WATER SAMPLE			
Report No.	GW/23/0810		Report Date		22/05	/2023
Client Name & Address	Administrative Bloc	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagza Taluka Pernem, Mopa, North Goa - 403512				
Order / Reference	As Per Dated 16/05/2023	Environmental Condition of Lab			Temp®C Humid 24.4 4	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	WTP RO			-		
Sampling Details	WTP RO Inlet Wate	er Sample	Date of Collection		16/05/2023	
Sample Collected by	GLPL Representati	ve	Sample Received On		16/05/2023	
Analysis Started On	16/05/2023		Analysis Completed On		on 22/05/2023	
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.58		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	-	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
б	Total Alkalinity	20.16	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	80	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	15,08	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SOv	2.50	mg/lit	200.00	APHA 4500 SO42 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SPF
11	Total Hardness as CaCO ₃	50	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHa
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0810	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Airpo Administrative Block, Mopa I Taluka Pernem, Mopa, North	nternational Airport, Dadachi	wadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.044	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	13.63	mg/lit	75.0	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.057	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	3.89	50 mg/lit	30.0	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mgñit	5.00	APHA 3111 B
31	Sodium as Na	8.2	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B
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For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0810	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37 ^{ti} C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

End_

For GADARK LAB PVT. LTD.

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Note:

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Equipment	Call	handlere	Details
coupment	Can	pration	Details

Sr.				Calibrati	on Details
Sr. No.	Equipment Name	Equipment Name Equipment Id No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	14	In house	Calibration
02.	Turbidity Meter	GL/EQ/Turb/01		in house	Calibration
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023
06.	ICP ~ OES	GL/EQ/ICP/01	+	In house	Calibration
07.	Microbiological Incubator (37 °C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
08.	Microbiological Incubator (44.5 °C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	16/05/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AV1/2207004	01/07/2022	30/06/2023
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	01/07/2022	30/06/2023



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TEST REPORT

	ANALYSIS REI	PORT FOR N	NATER SAMPLE				
Report No.	GW/23/0811		Report Date		22/0	6/2023	
Client Name & Address	GMR Goa Internationa Administrative Block, I Taluka Pernem, Mopa	Mopa Interna	tional Airport, Dad	achiwadi	Road,	Nagzar,	
Order / Reference	As Per Dated 16/05/2023	Environmental Condition of Lab		Temp®C 24.4		Humidity %	
Sampling Plan	GLPL/QF/7.3/06	Sampli	ng Procedure No.	APHA 1060			
Sampling Point	PTB L0 Water Fountai	in					
Sampling Details	PTB L0 Water Founta	in Sample	Date of Collectio	ate of Collection		16/05/2023	
Sample Collected by	GLPL Representative		Sample Received On		16/05/2023		
Analysis Started On	16/05/2023		Analysis Completed On		22/05/2023		
Sample Container	Plastic Carboy + Glass	s Bottle	Sample Quantity		4 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.53		6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	-	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 8
5	Odour	Agreeable		Agreeable	APHA 2150 8
6	Total Alkalinity	10.08	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	62	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	10.05	mg/lit.	250.00	APHA 4500 CI-B
9	Sulphate as SO4	1.00	mg/lit.	200.00	APHA 4500 SO/2 E
10	Sulphides	< 0.001	mg/lit.	0.05	APHA 4500 SF
11	Total Hardness as CaCO ₃	34	mg/liit	200.00	APHA 2340 C
12	Ammonia	< 0.055	mg/lit.	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT, LTD.

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TEST REPORT

Report No.	GW/23/0811	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernern, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit.	0.20	APHA 4500 CI B
15	Nitrate as NO ₂	0.038	mg/lit	45.00	APHA 4500 NO2 B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F
17	Phenolic Compound	< 0.001	tiligen	0.001	APHA 5530-8,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Amenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	6.41	mg/lit	75.00	APHA 3500 Ca 8
24	Cadmlum as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.089	tilligen	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 8
27	Magnesium as Mg	4.38	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	tiligen	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	7.8	mg/lit	Not Specified	APHA 3508 Na B
32	Potassium as K	< 0,1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0811	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - 8
35	E Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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For GADARK LAB PVT. LTD.

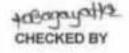
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Page 3 of 3

			terestron and	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	+ 1	In house	Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01	+	In house	Calibration	
03;	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04,	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
06.	ICP - OES	GL/EQ/ICP/01	+	In house	Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ:1-01	AVV2207006	01/07/2022	30/06/2023	
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVV2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	16/05/2023	15/02/2024	
10	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AV1/2207017	01/07/2022	30/06/2023	

Equipment Calibration Details



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TEST REPORT

	ANALYSIS F	REPORT FOR WATE	R SAMPLE				
Report No.	GW/23/0812		Report Date	2	2/05/2023		
Client Name & Address	Administrative Bloc	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 16/05/2023	Environmental Condition of Lab		Temp ⁶ 24.4	C Humidity %		
Sampling Plan	GLPL/QF/7.3/06	Sampling Proced	ure No.	APHA 1060			
Sampling Point	PTB Arrival Water F	Fountain L1					
Sampling Details	PTB Arrival Water F	Fountain L1 Sample	Date of Collection		16/05/2023		
Sample Collected by	GLPL Representative		Sample Received On		16/05/2023		
Analysis Started On	16/05/2023		Analysis Completed On		22/05/2023		
Sample Container	Plastic Carboy + Gl	Sample Quantity		4 lit + 1.25 lit			

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.48		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	1. 1.	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	10.08	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	60	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	11.06	mg/lit.	250.00	APHA 4500 CI-B
9	Sulphate as SO4	0.75	silvem	200.00	APHA 4500 SO4FE
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S*F
11	Total Hardness as CaCO ₃	38	mg/lit.	200,00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Client Name & Address	GMR Goa International Air Administrative Block, Mopa Tatuka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Report No.	GW/23/0812	Report Date	22/05/2023

Chemical Testing:

Sr. No,	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit.	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.028	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	IS 3025
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit.	0.03	APHA 3120 B
21	Ansenic as As	< 0.01	mg/lit.	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	6.41	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.051	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	5.36	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.005	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	8.0	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit.	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mgfit	0.05	APHA 3120 B
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For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0812	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 376C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 ftrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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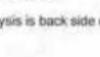
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Equip	ment	Calibr	ation	Details

			1252028230011	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house	e Calibration	
02	Turbidity Meter	GL/EQ/Turb/0	3	In house Calibration		
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/0/01	AV1/2207012	01/07/2022	30/06/2023	
05	U V Spectrophotometer	GL/EQ/L/V/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
06.	ICP - OES	GL/EQ/ICP/01		In house	Calibration	
07.	Microbiological Incubator (37 8 C)	GL/EQ/1-01	AVI/2207006	01/07/2022	30/06/2023	
.80	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/D1	TECH/VAL/ 2023/02/89	16/05/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVV2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS R	EPORT FOR V	VATER SAMPLE	8		
Report No.	GW/23/0813		Report Date		22/05/2023	
Client Name & Address	GMR Goa Internatio Administrative Bloc Taluka Pernem, Mo	k, Mopa Interna	itional Airport, Da	adachiwadi R	load, Nagzar,	
Order / Reference	As Per Dated			Temp *C	Humidity %	
Order / Hereitence	16/05/2023			24.4	41	
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	rocedure No.	APHA 1060		
Sampling Point	PTB Encalm Loung	e 1.2	11			
Sampling Details	PTB Encalm Loung Sample	PTB Encalm Lounge L2 Water		Date of Collection		
Sample Collected by	GLPL Representative		Sample Received On		16/05/2023	
Analysis Started On	16/05/2023		Analysis Completed On		22/05/2023	
Sample Container	Plastic Carboy + Gi	lass Bottle	Sample Quantity		4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.42	-	6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
.4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	8.06	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	55	mgðit	500.00	APHA 2540 C
8	Chlorides as Cl	9.05	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SOa	0.75	mg/lit.	200.00	APHA 4500 SO42 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	32	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mgñit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0813	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.025	mg/lit	45.00	APHA 4500 NO3 B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F
17	Phenolic Compound	< 0.001	mg/lit.	0.001	15 3025
18	Cyanide	< 0.001	mg/lit.	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit.	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	5,61	mg/lit	75,00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.088	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	4.92	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit.	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	15 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit.	5.00	APHA 3111 B
31	Sodium as Na	7.9	mg/lit.	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B
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TEST REPORT

Report No.	GW/23/0813	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37°C for 48 brs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100mi	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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For GADARK LAB PVT. LTD.

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Equipment Calibration Details

- I			and the second	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house	Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01		In house Calibration		
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
06,	ICP - OES	GL/EQ/ICP/01		In house	Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AVI/2207006	01/07/2022	30/06/2023	
68.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/ 2023/02/89	16/05/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AV1/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVV2207017	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS R	EPORT FOR WA	TER SAMPLE				
Report No.	GW/23/0814		Report Da	de .	22/05/2023		
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated	Environmental Condition of		Temp %	Humidity %		
Order / Reletence	frder / Keterende 16/05/2023		Lab		41		
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060			
Sampling Point	Admin Building Gro	und Floor					
Sampling Details	Admin Building Gro Fountain	und Floor Water	Date of Collection		16/05/2023		
Sample Collected by	GLPL Representati	Ve	Sample Received On		16/05/2023		
Analysis Started On	16/05/2023		Analysis Completed On		22/05/2023		
Sample Container	Plastic Carboy + Gl	ass Bottie	Sample Quantity		4 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Result Unit (Acceptable Limits as per IS 10500:2012		Method
1	pH	7.28		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	24.19	mg/lit.	200.00	APHA 2320 B
7	Total Dissolved Solid	78	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	16.08	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO ₄	0.50	mg/lit.	200.00	APHA 4500 SO43 E
10	Sulphides	< 0.001	mg/lit.	0.05	APHA 4500 S#F
11	Total Hardness as CaCOa	54	mg/lit.	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH ₃
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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TEST REPORT

Report No.	GW/23/0814	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters Result Unit (Acceptable Limits a per iS 10500:2012)		(Acceptable Limits as	Method	
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.006	tihgm	45.00	APHA 4500 NOs B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	IS 3025
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	10.42	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.063	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	6.82	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	1S 3025 (Part 2)
30	Zinc as Zn	< 0.0096	tiñgm	5.00	APHA 3111 B
31	Sodium as Na	3.1	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B
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TEST REPORT

Report No.	GW/23/0814	Report Date	22/05/2023
Order / Reference	As Per Dated 16/05/2023	Sample Received on	16/05/2023
Analysis Started On	16/05/2023	Analysis Completed On	22/05/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mope Taluka Pernem, Mopa, Nor	International Airport, Dada	achiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37%C for 48 fms.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E. Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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Equipment	Calibration	Details
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			1	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house	Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01	- 4	In house	Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
06.	ICP - OES	GL/EQ/ICP/01		In house Calibration		
07.	Microbiological Incubator (37 ⁶ C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023	
08.	Microbiological Incubator (44.5 °C)	GL/EQ/1-03	AV#2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GULF/01	TECH/VAL/ 2023/02/89	16/05/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/0767		Report Date		1/05/2	2023
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pemem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 10/05/2023		vironmental Condition of		°C	Humidity %
Circler / Poeserence	As Per Dated Torobicoco	Lab		31.2		53
Sampling Plan	GLPL/QF/7.3/06	Sampling	Procedure No.	APHA 1060		
Sampling Point	5TP Inlet					
Sampling Details	STP Inlet Water Sample	D	Date of Collection		10/05/2023	
Sample Collected by	GLPL Representative		Sample Received On		On 10/05/2023	
Analysis Started On	10/05/2023		Analysis Completed Or		On 16/05/2023	
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	6.73		APHA 4500 H*
2	Chemical Oxygen Demand (COD)	1053	mg/lit	APHA 5220 B
3	Biochemical Oxygen Demand (27 ⁸ C day) (BOD)	370	mg/lit	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	98	mg/lit	APHA 2540 D
5	Oil & Grease (O & G)	10	mg/lit	APHA 5520 B
6	Ammonia	89.23	mg/lit	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	104.72	mg/lit	APHA 4500-Norg

Microbiological Parameters:

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

End

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

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Sr.	and the second se	Section and section of the	Certificate	Calibration Details			
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date		
01.	pH Meter	GL/EQ/pH/01		In hour	se Calibration		
02.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	01/07/2022	30/06/2023		
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023		
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	01/07/2022	30/06/2023		
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023		
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023		
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	10/05/2023	15/02/2024		
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023		

Equipment Calibration Details



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE							
Report No.	GW/23/0768		Report Date	1	16/05/2023					
Client Name & Address	Administrative Bloo	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pemem, Mopa, North Goa - 403512								
Order / Reference	As Per Dated		nvironmental Condition of Lab		mp [#] C Humidit					
Winter / Presiding time	10/05/2023	101141010100	cital sourcement of case	31.2	Temp ^R C Humidity % 31.2 53 PHA 1060					
Sampling Plan	GLPL/QF/7.3/06	Sampling F	Procedure No.	APHA 1060						
Sampling Point	STP Outlet									
Sampling Details	STP Outlet Water S	Sample	Date of Collection	10/05		5/2023				
Sample Collected by	GLPL Representati	ve	Sample Received	On 10/05/		05/2023				
Analysis Started On	10/05/2023		Analysis Completed On		n 16/05/2023					
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity	1	5 lit + 1.25 lit					

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	6.97	+	5.5-9.0	APHA 4500 H
2	Chemical Oxygen Demand (COD)	33	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27 ⁸ C day) (BOD)	6	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	10	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (D & G)	< 0,1	mg/lit	10.00	APHA 5520 B
6	Ammonia	3.02	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	7.26	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

8	Fecal Coliform at 44.5°C for 24 hrs.	58	MPN Index/100ml	100	APHA 9221 E
	A		End		

For GADARK LAB PVT. LTD.

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- 4. Customer complaint register is available at laboratory.
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Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221, dated 24th August 2021, valid upto 15th October 2023. ISO 9001 : 2015 Certified & ISO 45001 : 2018 Certified.

February.

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Sr.		and the second second	Certificate	Calibration Details			
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date		
01.	pH Meter	GL/EQ/pH/01	141.	In hour	e Calibration		
02	Hot Air Oven	GL/EQ/0/01	AV1/2207012	01/07/2022	30/06/2023		
03	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023		
04.	BOD incubator	GL/EQ///02	AVI/2207014	01/07/2022	30/06/2023		
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023		
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AV1/2207016	01/07/2022	30/06/2023		
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	10/05/2023	15/02/2024		
08.	Autoclave	GL/EQ/A/01	AV1/2207004	01/07/2022	30/06/2023		

Equipment Calibration Details



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

			AMBIE	INT AIR QU	ALITY MO	NITORING	REPORT					
Repor	rt Date		03/07/2023	97/2023								
Name	of Client		M/s. GMR G	GMR GOA INTERNATIONAL AIRPORT LIMITED								
Addre	iss of Client			DMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD AGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							D,	
Samp	ling Plan		GLPL/OF/7	3/06		1	Page No.			1 of 1		
Samp	le Collected B	Y	GLPL Representative									
Month	of Sampling		June 2023									
				AMBIE	INT AIR LO	OCATION						
Juti	ion of Ambient	Air Station	Mopa Boundry - Goa State (G-A1)									
Avera	ge Ambient Te	imperature (*C	5	31.5		Average Humidity (%)			87			
Avera	ge Wind Spee	d (km/hr)		51		Average Wind direction (Deg)			290			
Latitur	de			N 15*45*51.1*		Longitude			E 73*56'32.4"			
instru	instrument Used		F	FPS (APM - 550)			RDS (APM - 460)			GPS (APM - 411)		
Sr.	Date of	Desired Mar				PAR	AMETERS	r.				
No.	Sampling	Report No.	SPM	PM ₁₀	PMax	SOr	NOx	CO	CO2	Lead	VOC	
	154 OE 0555	(73 (33) (45 4)	00.0	00.01	75.03	640	100	0.40	A-0.4	0.05		

METHOD		METHOD	(Fart 4)	15 5182 (Part KXIII) 2006	40 CFH Part 80 Appendix 1, 2014-2016	15 1182 (Plant 10) 2001	15 5182 (Part VI) 2006	15 5182 (Part X) 1999	GC Method	(Fait (Pait XX0) 2004	EPA Mothor 18	
_	UNITS		UNITS	UNITS		pg/m ³	hðuu ₂	hðyur ₃	mg/m ¹	ppm	µg/m³	ppm
	NAAQS LI	MITS *	+	100	60	80	80	2	-	1		
9	29.06.2023	GA/23/1695	35.0	52.78	11.35	< 6.0	< 9.0	0.63	144.8	0.05	<1.0	
1	26.06.2023	GA/23/1682	53.7	61.04	13.72	< 6.0	< 9.0	0.37	140.6	0.05	<1.0	
7	22.06.2023	GA/23/1655	55.8	54.77	18.92	< 6.0	< 9.0	0.87	148.2	0.05	<1.0	
6	19.05.2023	GA/23/1042	58.2	62.10	20.17	< 6.0	< 9.0	0.56	115.0	0.05	<1.0	
5	15.06.2023	GA/23/1819	61.4	60.82	24.65	< 6.0	< 9.0	0.57	110.7	0.07	<1.0	
4	12.06.2023	GA/23/1607	70.0	53.73	20.50	< 6.0	< 9.0	0.61	119.01	0.03	<1.0	
3	08.06.2023	GA/23/1578	94.3	57.04	21.83	< 6.0	< 9.0	0.24	83.24	0.06	< 1.0	
2	05.05.2023	GA/23/1554	114.9	70,23	27,49	< 6.0	< 9.0	0.52	96.2	0.04	< 1.0	
1	01.06.2023	GA/23/1543	96.2	68.91	25.03	< 6.0	< 9.0	0.49	82.4	0.05	< 1.6	
0.00				1.14116	C PHILE	ersra	1100	20.00	11111			

*N.A.A.Q.5. - National Ambient Air Quality Standards

Note :

1. The results relate only to the samples rested.

2. Test Report shall not be reproduced except in hel, without written approval of the laboratory

3. Bandles will be preserved for a period 10 days from the delivery of Test Report.

4. Test Results relate only to the constitions prevailing at the time of sampling.

Custamer complaint register is available at laboratory.
 Culturation details of the equipment's used in manifolding and / or analysis is back wide of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR] CHECKED BA

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CALIBRATION	DETAILS	OF	EQUIPMENT	USED	FOR	SAMPLING
31212-1213-1213-1214	BUT BOAT I IT THE PART OF	-	the star of the start of the		1.0011	AND ATTACK MADE AND

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

			AMBI	ENT AIR QU	JALITY MO	NITORING	REPORT				
Report Da	ate		03/07/2023								
Name of	Client		M/s. GMR	GOA INTER							
Address	of Client			RATIVE BLO	DADACHIN	ADACHIWADI ROAD,					
Sampling	Plan		GLPL/QF/7	3/06			Page No.			1 of 1	
Sample C	Collected By	1	GLPL Repr	esentative							
Month of	Sampling		June 2023								
				AME	ENT AIR L	OCATION					
ation (of Ambient	Air Station	Sher	necheadva	n Goa St	ate (G-A2)					
Average /	Ambient Te	mperature (*C	3	31		Average H	umidity (3	6)		82	
Average 1	Wind Spee	d (km/hr)		58.3		Average W	And direct	ion (Deg)		301	
Latitude				N 1542'06	1.1*	Longitude			E	73*49'21.	5"
instrumer	nt Used			FPS (APM -	550)	RDS	6 (APM - 4	460)	GP	S (APM -4	(11)
Sr.	Date of	Concern Mar				PAR	AMETERS	8			_
No. 5	Sampling	Report No.	SPM	PMee	PMIA	SO	NOx	co	COI	Lead	VOC

No.	Sampling	Report No.	SPM	PMee	PMIA	SO	NOx	co	COI	Lead	VOC
1	01.06.2023	GA/23/1542	77.8	57.07	17.05	< 6.0	< 9.0	0.28	59.5	0.04	< 1.0
2	05.06.2023	GA/23/1553	95.7	66.21	15.88	< 6.0	< 9.0	0.59	85.6	0.06	< 1.0
3	08.06.2023	GA/23/1577	78.3	52.21	32.93	< 6.0	< 9.0	0.23	55.53	0.05	<1.0
4	12.06.2023	GA/23/1606	59.3	56,63	21.46	< 6.0	< 9.0	0.29	72.94	0.03	< 1.0
5	15.06.2023	GA/23/1618	57.4	57.64	23.41	< 6.0	< 9.0	0.77	123.9	0.05	<1.0
6	19.06.2023	GA/23/1841	54.2	49.97	19.13	< 6.0	< 9.0	0.33	125.0	0.04	<1.0
7	22.06.2023	GA/23/1654	39.2	58.89	14.72	< 6.0	< 9.0	0.67	128.5	0.03	<1.0
)	26.06.2023	GA/23/1681	37.3	54.95	12.60	< 6.0	< 9.0	0.33	125.0	0.04	<1.0
9	29.06.2023	GA/23/1694	22.0	45.06	12.18	< 6.0	< 9.0	0.34	115.2	0.05	<1.0
	NAAQS LI	MITS *	-	100	60	80	80	2		1	+
	UNIT	5	µg/m ³	µg/m²	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	ug/m ³	ppm
	METH	DD	15 5182 (Part 4)	i5 \$162 (Part XXbi) 2006	USEPA FEM, 45 CPR Part 60, Appendie 1, 2014-2016	(5 \$182 (Plut 8) 2003	45 5142 (Part VI) 2008	15.5182 (Part X) 1699	GC Method	15.5182 (Part XXII) 2004	EPA Abiticul 18

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Note :

1. The results relate only to the samples losted

Tent Report shall not be reproduced except in full, without written approve of the taboratory.
 Samples will be preserved far a period 15 days from the delivery of Test Report.

4. Test Results relate only to the tonditions prevailing at the time of sampling.

Customer complaint register to evolution at loboratory.

Calibration details of the sepigment's used in monitoring and I or analysis is back side of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 936-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 476-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 471-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thenno-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF: 15, Hindustan Kohinoor Industrial Comptex, L.B.S. Marg, Viderali (West), Mumbai - 83. Tel. (022) 2577 7060 / 2577 7070 / 2085 0091 • +91 90213 12367

TEST REPORT

					10 10 10 10 10 10 10 10 10 10 10 10 10 1								
			AMBIE	NT AIR QUA	ALITY MO	NITORING R	EPORT						
Report	Oate		03/07/2023										
Name	of Client		M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED										
Addres	is of Client					PA, NORTH	Contraction in the second second		ADACHIW	ADI ROA	D,		
Sampli	ng Plan		GLPL/QF/7	3/06		1 8	age No.			1 of 1			
Sample	e Collected By		GLPL Repre	sentative									
Month	of Sampling		June 2023	une 2023									
				AMBIE	NT AIR LO	CATION							
Locatio	on of Ambient A	Air Station	Nagz	ar – Goa St	ate (G-A3	5)							
Ing	e Ambient Ter	mperature (*C	3	31.5 Average Humidity (%)						85			
Averag	e Wind Speed	(km/hr)		59	-	Average W	nd directio	n (Deg)	278				
Latitud	0			N 1545'37.	3,	Longitude	a chick to be the set of		E 7	3*53 14 2	2"		
instrum	ent Used		F	PS (APM - 5	50)	RDS	(APM - 48	50)	GPS	(APM - 4	(11)		
Sr.	Date of	Barrier Ma				PARA	METERS	_					
No.	Sampling	Report No.	SPM	PMis	PMcs	SOI	NOx	CO	COs	Lead	VO		
1	01.06.2023	GA/23/153	146.0	63.83	27.45	< 6.0	< 9.0	0.90	128.9	0.05	<1.		
2	05.06.2023	GA/23/1546	183.3	89.66	27.82	< 6.0	< 9.0	0.50	119.4	0.05	< 1.1		

	METHO	D	15 3182 (Purt 4)	15 5182 (Part XXII) 2006	USEPA FEM. 48 CFR Part 86. Appendu- L. 2014-2018	15 5182 (Part X) 3001	15 9182 (Pert VI) 2006	(5.5182 (Fart X) 1996	GC Mathod	15 5152 (Pix1 XXI) 2004	EPA Muthod 18
	UNITS		hilitur ₃	14g/m ³	hð _i w ₃	hiðuu ₃	hðuu _s	mg/m ³	ppm	µg/m ³	ppm
	NAAQS LIM	ITS *	-	100	60	80	80	2	-	1	-
0	29.06.2023	GA/23/1687	82.0	51.84	12.27	< 6.0	< 9.0	0.77	138.9	0.05	<1,0
8	26.06.2023	GA/23/1674	100.6	54.06	15.80	≪6.0	≪ 9.0	0.44	116.7	0.03	<1.0
7	22.06.2023	GA/23/1647	117.9	59.96	17.38	< 6.0	< 9.0	0.28	116.9	0.03	<1.0
6	19.06.2023	GA/23/1634	124.7	68.32	19.50	<6.0	≪9.0	0.46	115.9	0.03	<1.0
5	15.06.2023	GA/23/1611	145.2	77.35	21.75	< 6.0	⇒9.0	0.66	131.4	0.07	<1.0
4	12.05.2023	GA/23/1599	157.6	73.65	22.70	< 6.0	< 9.0	0.60	115.3	0.05	< 1.0
3	08.06.2023	GA/23/1570	167.5	80.55	30.40	< 6.0	< 9.0	0.81	123.7	0.03	< 1,0
2	05.06.2023	GA/23/1546	183.3	89.66	27.82	< 6.0	< 9.0	0.50	119.4	0.05	< 1.0

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

Note :

1. The results when only to the samples tested.

2. Test Report shall not be reproduced except in full, without written approval of the faturatory.

3 Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Tast Rosults relate only to the conditions provailing at the time of sampling

Continuer complaint register is available at laboratory.
 Coldination details of the argument's used in monitoring and / or analytic is trick side of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]



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

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 847-DTJ-2019	08/10/2022	08/10/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6896-DTC-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 690	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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DFF.: 15, Hindustan Kohnoor Industrial Complex, L.B.S. Marg, Viktroli (West), Muelbai - 83, Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 90213 12367

TEST REPORT

			AMBIE	INT AIR QU	ALITY MC	NITORING	REPORT							
Repo	rt Date		03/07/2023											
Name	of Client		M/s. GMR G	MR GOA INTERNATIONAL AIRPORT LIMITED										
Addre	as of Client			NISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, ZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.										
Samp	ling Plan		GLPL/QF/7	QF/7.3/06 Page No. 1										
Samp	le Collected By	1	GLPL Repre	LPI, Representative										
Month	of Sampling		June 2023											
2				AMBIE	INT AIR LO	OCATION								
Lucat	ion of Ambient	Air Station	Purva	Casarvan	nem - Goa	State (G-A	(4)							
Avera	ge Ambient Te	mperature (*C	3)	30		Average H	umidity (%	6)	86					
Avera	ge Wind Spee	d (km/hr)		60		Average W	And direct	276						
Latitu	de			N 15*41'41	.9"	Longitude			E	73*50 16	6"			
Instru	instrument Used			PS (APM -	550)	RDS (APM - 460) GPS (APM - 411)								
Sr.	Sr. Date of Report No.					PAR	AMETERS	1						
No.	Sampling	report No.	SPM	PMn	PMax	\$07	NOx	CO	COx	Lead	VOC			
1	01.06.2023	GA/23/1536	159.8	63.87	27.65	< 6.0	< 9.0	0.60	110.8	0.05	< 1.0			

	METH	00	15.5182 (Pat 4)	15 5182 (Part XX08) 2006	UDEPA FEM, 40 CFR Part 50. Appendis- 5. 2014-2018	15 5182 (Part I/) 2001	15 6182 (Plant Vi) 2030	45 5182 (Part 30) 1990	GC Method	45 6182 (Pyes XX0) 2004	EPA Mishod 10
	UNIT	5	µg/m³	µg/m³	µg/m ³	hðuu _s	pg/m ³	mg/m ³	ppm	hðjuu ₃	ppm
	NAAQS LI	MITS *		100	60	80	80	2	-	1	
9	29.06.2023	GA/23/1688	55.8	46.16	11.68	< 6.0	< 9.0	0.49	112.5	0.04	<1.0
1	25.06.2023	GA/23/1675	64.3	55.68	13.97	< 6:0	< 9.0	0,33	124.9	0.05	<1.0
7	22.06.2023	GA/23/1648	82.3	63.17	16.01	< 6.0	< 9.0	0.35	127.1	0.04	<1.0
6	19.06.2023	GA/23/1635	98.4	55.41	14,60	< 6.0	< 9.0	0.26	126.1	0.04	<1.0
5	15.06.2023	GA/23/1612	115.5	57.57	18,17	< 6.0	< 9.0	0.55	121.9	0.07	<1.0
4	12.08.2023	GA/23/1600	126.7	53.41	19.42	< 6.0	< 9.0	0.72	121.7	0.02	= 1.0
3	08.062023	GA/23/1571	146.1	63.87	25.20	< 6.0	< 9.0	0.24	65.5	0.03	= 1.0
2	05.06.2023	GA/23/1547	172.7	83.93	25.12	< 6.0	< 9.0	0.38	73.9	0.06	< 1.0
1	01.06.2023	GA/23/1536	159,8	63.87	27.65	< 6.0	< 9.0	0.60	110.8	0.05	< 1.0

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

Note 1

1. The results issials only to the stangles lealest.

2. Test Report shat not be reproduced except in full, without written approval of the taberatory.

3. Samples will be preserved for a purcht 15 days from the delivery of Yest Report.

4. Test Results retails only to the conditions prevailing at the time of sampling

Customer comptaint register is evaluate at lateratory
 Calibration details of the equipment's used is mentioning and / or analysis is back site of analysis inport.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

		AMBIENT AIR QUALITY M	MONITORING REPORT	
Report Date	03/0	7/2023		
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED	
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,
Sampling Plan	GLP	L/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLP	L Representative		
Month of Sampling	Juni	e 2023		
		AMBIENT AIR	LOCATION	
ation of Ambient Air Sta	tion	Khajne Amere Porscode	em - Goa State (G-A5)	
Average Ambient Temperal	ture (*C)	30.5	Average Humidity (%)	60
Average Wind Speed (km/h	ur)	51.2	Average Wind direction (Deg)	298
Latitude		N 15*40'38.0"	Longitude	E 73*46/21/2"
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr.	Date of	Descar Her		PARAMETERS								
No.	Sampling	Report No.	SPM	PMm	PMaa	SOr	NOx	co	COI	Lead	VOC	
1	01.06.2023	GA/23/1537	53.6	58,97	10.98	< 6.0	< 9.0	0.32	57.3	0.05	< 1.0	
2	05.06.2023	GA/23/1548	69.7	72.89	17.76	< 6.0	< 9.0	0.62	128.5	0.05	< 1.0	
3	80,06.2023	GA/23/1572	59.3	54.88	20.50	< 8.0	< 9.0	0.42	116.3	0.42	< 1.0	
4	12.06.2023	GA/23/1601	55.3	51.58	12.10	< 6.0	< 9.0	0.50	101.0	0.04	< 1.0	
5	15.06.2023	GA/23/1613	47.5	43.05	14.22	<6.0	< 9.0	0.25	104.5	0.04	<1.0	
6	19.06.2023	GA/23/1636	43.8	34,59	11,81	< 6.0	< 9.0	0.42	108,1	0.03	<1.0	
7	22.06.2023	GA/23/1649	31.8	49.29	12.43	< 6.0	< 9.0	0.37	103.2	0.02	<1.0	
٩.	26.06.2023	GA/23/1676	30.4	53.80	11.93	< 6.0	< 9.0	0.41	104.1	0.07	<1.0	
4	29.06.2023	GA/23/1689	25.6	42.24	10.02	< 6.0	< 9.0	0.23	109.6	0.04	<1.0	
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-	
	UNIT	5	µg/m²	µg/m ²	hidiu ₃	µg/m ³	hðius,	mg/m ³	ppm	hðiu ₃	ppm	
	METH	00	15 5182 (Part 4)	10 5182 (Part XXIII) 2000	USEPA FEM, 40 CFR Part 50, Appendia- 1, 2014-2018	15 1142 (Port 8) 2017	15 5182 (Part M) 2000	16 5182 (Part R) 1800	OC Method	46.3182 (Part XXII) 2004	EPA Method 15	

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

Note :

1. The results relate only to the sumplies eatest.

2. Test Report shall not be reproduced except in full, without written approval of the followatory.

3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Results relate only to the conditions prevailing at the time of sampling

* Contorner comptaint regular is available at laboratory

E. Calibration debits of the equipment's used in monitoring and / or analysis is back used of analysis report For GADARK LAB PVT. LTD.

Seconda -----

AUTHORISED SIGNATORY [SACHIN B. GAONKAR] KUDAL

HEBOGRUAT A

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

Ambient Instrument No. 3	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 919-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 2841-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 800	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB : H-54, Additional M LD C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525. Tet: (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

OFF. 15, Hindustan Kohinour Industrial Complex, L.B.S. Marg. Vikhroli (West), Mumbai - 83. Tel: (022) 2577 7068 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

						and the second second						
_			AMB	IENT AIR QU	ALITY MC	NITORING	REPORT				_	
Repor	t Date		03/07/2023	-							_	
Name	of Client		M/s. GMR	GOA INTERN	ATIONAL	AIRPORT L	IMITED					
Addre	ss of Client			RATIVE BLO TALUKA PER					DADACHIV	VADI ROA	D,	
Samp	npling Plan GLPL/QF/7.3/06 Page No.							1.1	t of t			
Samp	le Collected By	1	GLPL Rep	esentative								
Month	of Sampling		June 2023									
				AMBIE	NT AIR LO	DCATION						
- yati	on of Ambient	Air Station	Rajv	il Wada Ton	kem - Go	a State (G-/	A6)					
Avera	ge Ambient Te	mperature (*	C)	31		Average Hi	umidity (%)	86			
Avera	ge Wind Spee	d (km/hr)		54		Average W	Ind directi	on (Deg)	290			
Latitud	\$ep			N 15*48'40	0*	Longitude		10010000000000000	E	E 73*52'50.2"		
Instru	ment Used			FPS (APM -	550)	RDS	(APM - 4	60)	GPS	s (APM - 4	(11)	
Sr.	Date of	-				PAR	AMETERS	1				
No.	Sampling	Report No	SPM	PMia	PMza	SO1	NOx	CO	COI	Load	VOC	
1	01.06.2023	GA/23/154	0 88.2	59.26	26.74	< 6.0	< 9.0	0.27	65.6	0.04	< 1.0	
2	05.06.2023	GA/23/155	1 110.7	66.01	22.04	< 6.0	< 9.0	0.51	96.7	0.06	< 1.6	
3	08.06.2023	GA/23/157	5 91.7	60.70	24.66	< 6.0	< 9.0	0.29	87.19	0.06	<1.0	
	1	The state of the state of the			10.00				-		-	

	METHO	ac	15 \$182 (Part 4)	15 5182 (Part XXXX) 2006	USEPA FEM. 40 CPR Part 50, Appendia 1, 2014-2016	IE 5182 (Pixt II) 2001	40 5182 (Part VI) 2006	(5 5162 (Pist K) 1999	GC Mythiat	(E \$182 (Part XX9) 2104	EPA Method 18
	UNIT	5	µg/m ³	µg/m ³	hðjuu _g	µg/m ³	hð _i w ₃	mg/m ³	ppm	hð/w ₂	ppm
	NAAQS LI	MITS *	-	100	60	80	80	2		1	- 44
¥.	29.06 2023	GA/23/1692	25.6	44.56	12.23	< 6.0	< 9.0	0.40	145.6	0.05	<1.0
٩.,	26.06.2023	GA/23/1679	34.9	54.27	15,18	< 6.0	< 9.0	0.25	115.8	0.03	<1.0
7	22.06.2023	GA/23/1852	43.5	59.08	12.89	< 6.0	< 9.0	0,43	102.1	0.03	<1.0
6	19.06.2023	GA/23/1639	55.5	56.11	17.17	< 6.0	< 9.0	0.45	110.0	0.02	<1.0
5	15.06.2023	GA/23/1616	62.7	57.65	13.47	< 6.0	< 9.0	0.59	124.3	0.05	<1.0
4	12.06.2023	GA/23/1604	68.3	51.92	17.59	< 6.0	< 9.0	0.30	94.37	0.04	< 1.0
. T.	1. TO TO 1. TO 2. TO 1. TO 2. TO 2.	CONTRACTOR OF THE REAL OF T			and the second se						

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note :

1. The results ratele only to the samples leaded

2. Test Report shall not be reproduced except in S.R. without written approval of the lateratory.

A Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Hesuits relate only to the conditions prevaiting at the time of sampling. 9. Customer complaint register is svaliable at laboratory

6. Californition dotails of the equip

site is back pitte of analysis report. next's used in mendoring and I or snoty For GADARK LAB PVT. LTD.

Seapula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

+(80gay214) CHECKED BY

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ABA

CUDA

CALIBRATION	DETAILS	OF	EQUIPMENT	USED	FOR	SAMPLING
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Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 935-DTA-2015	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2023	15/05/2024
Gaseoue Sampler Sr. No. 262-D-22	16/05/2023	15/05/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF: 15, Hindusten Kohinoor Industrial Complex, L.B.S. Marg. Vikhroli (West), Mambai - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2065 0091 • +91 93213 12367

TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT	
Report Date	03/0	07/2023		
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED	
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,
Sampling Plan	GLS	PL/QF/7.3/05	Page No.	1 of 1
Sample Collected By	GLF	PL Representative		
Month of Sampling	Jun	e 2023		
		AMBIENT AIR	LOCATION	
Ingation of Ambient Air Sta	tion	Satarda - Maharashtra	State (M-A1)	
Average Ambient Temperat	ure (*C)	31.5	Average Humidity (%)	82
Average Wind Speed (km/h	()	40.1	Average Wind direction (Deg)	265
Latitude	-	N 15*43'01.3*	Longitude	E 73*46'00.2*
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr.	Date of	Report No.		PARAMETERS								
Na,	Sampling	Report No.	SPM	PMst	PMaa	SOr	NOx	CO	COs	Lead	VOC	
1	01.06.2023	GA/23/1538	52.4	59.87	15.26	<8.0	< 9.0	0.50	102.9	0.06	< 1.0	
2	05.06.2023	GA/23/1549	68.2	69.45	29.90	< 6.0	< 9.0	0.45	77,1	0.05	< 1.0	
3	08.06.2023	GA/23/1573	48.9	58.56	18.55	< 6.0	< 9.0	0.37	69.89	0.03	< 1.0	
4	12.06.2023	GA/23/1602	42.5	44.74	14.93	< 6.0	< 9.0	0.52	116.8	0.02	< 1.0	
5	15.06.2023	GA/23/1614	40.2	63.79	11.81	< 6.0	< 9.0	0.54	127.1	0.06	<1.0	
6	19.06.2023	GA/23/1637	38.5	54.51	17.76	< 6.0	< 9.0	0.31	121.3	0.03	<1.0	
7	22.06.2023	GA/23/1650	24.9	45.42	13.85	< 6.0	< 9.0	0.65	117.9	0.05	<1.0	
٩.	26.06.2023	GA/23/1677	27.4	53.82	10.06	< 6.0	< 9.0	0.31	110.5	0.02	<1.0	
4	29.06.2023	GA/23/1690	24.9	48.35	11.52	< 6.0	< 9.0	0.29	122.8	0.04	<1.0	
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-	
	UNIT	\$	µg/m ³	µg/m ^T	µg/m ²	µg/m ³	µg/m ¹	mg/m ¹	ppm	µg/m ³	ppm	
	METH	00	15.5182 (Put.4)	15 5182 (Part XXIII) 2006	USEPA PEM, 40 CFIR Part 80. Appointio- 1., 2014-2016	15 5182 (Pain 0) 2001	25 5162 (Part VI) 2556	15 6182 (Part X) 1990	GC Method	15 5182 (Part XXI) 2004	EPA Method 18	

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note 1

1. The results relate only to the samples teeled

2. Test Report shall not be reproduced ancept in full, without written approval of the tateratory

3. Samples will be proserved for a period 13 days from the delivery of Test Report.

 Test Pleads relate only to the conditions providing at the time of sampling 5. Customer compliant register is aveilable at lateratory.

8. Calibration dotails of the orgagement's used in monitoring and / or analysis is back side of analysis report

For GADARK LAB PVT. LTD.

Seconda

AUTHORISED SIGNATORY [SACHIN B. GAONKAR] снескер ву

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

KLIO.

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



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kustal, Taluka - Kudal, District - Sindhudurg - 418 525. Tet.: (02382) 223519 • E-mail: info@godark.in • Webate: www.gadark.in

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

TEST REPORT

_			AMBIE	NT AIR QU	ALITY MO	NITORING	REPORT				
Repo	rt Date	1	03/07/2023								
Name	of Client	1	W/s. GMR G	OA INTERN	ATIONAL	AIRPORT	IMITED				
Addre	ass of Client					INTERNAT			DADACHIN	VADI ROA	D,
Samp	ling Plan	(GLPL/QF/7	3/06	Concerning Processing		Page No.			1 of 1	
Samp	le Collected By	1	GLPL Repre	sentative							
Month	h of Sampling		June 2023								
				AMBIE	INT AIR LO	DCATION					
)at	ion of Ambient	Air Station	Dinga	ne – Maha	irashtra S	tate (M-A2)					
Avera	ge Ambient Te	imperature (°C)	31.5		Average H	umidity (%	.)		83	
Avera	ige Wind Spee	d (km/hr)		45		Average W	And direct	ion (Deg)		308	
Latitu	de		-	N 15*46'12	3*	Longitude			E	73*49 20	57
iostru	ment Used		F	PS (APM -	550)	RDS	(APM - 4	(60)	GP	S (APM -	(11)
Sr.	Date of	Prove No.	1			PAR	AMETERS	1)			
No.	Sampling	Report No,	SPM	PMso	PMAR	501	NOx	co	COI	Lead	VOC
	D. 0. 0000	CAMBREST	17.5	10.05	** **	- 6.6		0.37	mits 197	A. A. A.	1441

****	ensurgenergy		2PM	P20190	PWAR	201	PRUK	0.0	001	read	VOC
1	01.05.2023	GA/23/1541	42.5	58.53	13.81	< 6.0	< 9.0	0.37	89.7	0.04	< 1.0
2	05.06.2023	GA/23/1552	39.8	53.21	16.26	< 6.0	< 9.0	0.45	77.7	0.05	< 1.0
3	08.06.2023	GA/23/1576	30.4	45.08	14.68	< 6.0	< 9.0	0.26	71,98	0.05	< 1.0
4	12.05.2023	GA/23/1605	23.2	37.35	9.31	< 6.0	< 9.0	0.56	139.6	0.02	< 1.0
5	15.06.2023	GA/23/1617	20.8	34.35	11.68	< 6.0	< 9.0	0.67	120.1	0.05	<1.0
6	19.06.2023	GA/23/1640	19.4	41.02	10.81	< 6.0	< 9.0	0.22	130.0	0.05	<1.0
7	22.06.2023	GA/23/1653	17.7	50.33	11.19	< 6.0	< 9.0	D.48	108.8	0.04	<1.0
1	26.06.2023	GA/23/1680	19.6	45.03	10.35	< 6.0	< 9.0	0.28	122.9	0.02	<1.0
9	29.06.2023	GA/23/1693	14.3	39.53	8.96	< 8.0	< 9.0	0.56	137.6	0.03	<1.0
	NAAQS LI	MITS*	-	100	60	80	80	2	-	1	-
	UNIT	8	µg/m ³	µg/m ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	pipin	pghm3	ppm
	METH	00	15 5182 (Part 4)	15 5162 (Part XXIV) 2006	USEPA PEM, 40 CPR Part 50, Appendis- L, 2014-2016	45 3182 (Part II) 2001	13 5182 (Part VI) 2000	15 5182 (Part K) 1995	OC Muthod	15 1142 (Part 320) 2004	EPA Method 18

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note 1

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2. Test Report shall not be reproduced except in Nil, without written approval of the laboratory.

3. Samples wit to proserved for a period 15 days from the detivery of Test Report.

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Custower complaint register is soulatile at laboratory.

E Calibration details of the equipment's used in membring and / or analysis is back with of analysis report. For GADARK LAB PVT. LTD.

Seconda

AUTHORISED SIGNATORY [SACHIN B. GAONKAR] CHECKED BY

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

KUDAI

Ambient Instrument No. 7	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 1955-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	17/02/2023	16/02/2024
Gaseoue Sampler Sr. No. 1440-DTJ-2014	17/02/2023	16/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 825	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		AMBIENT AIR QUALITY I	IONITORING REPORT	
Report Date	03/0	17/2023		
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED	
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1
Sample Collected By	GLF	L Representative		
Month of Sampling	Jun	e 2023		
		AMBIENT AIR	LOCATION	
"gation of Ambient Air Sta	tion	Netarde - Maharashtra	State (M-A3)	
Average Ambient Temperal	ture (°C)	31	Average Humidity (%)	82
Average Wind Speed (km/ł	ir)	29.2	Average Wind direction (Deg)	232
Latitude N 15*46'11.7* Longitude E 73*53'4				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr.	Report No.					PAR	AMETERS				
No.	Sampling	Report No.	SPM	PMu	PMas	SOT	NOx	CO	COz	Lead	VOC
1	01.06.2023	GA/23/1539	19.4	62.30	13.81	<6.0	< 9.0	0.31	76.6	0.03	<1.0
2	05.06.2023	GA/23/1550	24.8	55.38	17.09	< 6.0	< 9.0	0.40	67.2	0.04	< 1.0
3	08.06.2023	GA/23/1576	30.4	45.08	14.68	< 6.0	< 6.0	0.40	121.4	0.04	< 1.0
4	12.06.2023	GA/23/1603	12.2	40.45	12.06	< 6.0	< 6.0	0.74	129.2	0.04	< 1.0
5	15.06.2023	GA/23/1615	11.0	42.27	9.66	< 6.0	< 9.0	0.86	107.4	0.04	<1.0
6	19 06 2023	GA/23/1638	9.60	36.11	11.27	< 6.0	< 9.0	0.33	120.0	0.03	<1.0
7	22.06.2023	GA/23/1651	11:0	40.76	9.90	< 6.0	< 9.0	0.50	115.3	0.05	<1.0
	26 05 2023	GA/23/1678	12.4	37.73	11.52	< 6.0	< 9.0	0.23	109.5	0.06	<1.0
4	29.06.2023	GA/23/1691	10.9	32.20	9.40	< 6.0	< 9.0	0.22	112.7	0.03	<1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-
	UNIT	\$	µg/m ²	µg/m ³	µg/m ¹	hðus,	µg/m³	mg/m ³	ppm.	µg/m ³	ppm
	METH	00	15 8182 (Pat 4)	15 8142 (Piet XXXI) 2005	USEPA FEM, 40 CFR Part 50, Appendia- L. 2014-2018	15 8182 (Part II) 2001	15 5142 (Part VI) 2006	15 5182 (Port X) 1999	GC Method	15 5182 99341 XX05 2004	EPA Mithod 18

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

Note 3

1. The reasols relate only to the samples leaded.

2. Test Report shall not be reproduced evcept in full, without written approval of the fatoratory.

3. Samples will be preserved for a period 15 days from the delivery of Test Report

4. Test Hasuits ratide only to the conditions providing at the time of sorriging 5. Customer compliant register is available at laboratory.

8 Calibration details of the asysperand's used in municiping and I or analysis is back rule of analysis report.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

AB

KURDAI

Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Samplar S. No. 942-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 477-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 470-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

Date	e of issue		03/07/	2023	_								
Nan	ne of Client		M/s. i	GMR GC	A INTE	ERNATION	AL AIRPORT	LIMIT	ED			_	
Add	ress of Clien	ŧ.					PA INTERNA RNEM, MOPA					CHIWAI	DI
San	npling Plan		Contractor and the other	QF/7.3/	and the second	a second s	Sampling Prod		alah kangsi pertentakan da		ويستحجز أورعوا فركان	/SOP/	A/17
	ple Collecte	d By	a de la serve partante	Represe		*	Construction Process						
	and to be a set of the				ويترجع المتحد المراجع	and the set of the set	LLUTION M	ONITO	RING		_		_
Br. No.	Date of Sampling	Rep	art No.	Station	Zone	Bampling Location		Day	Time No In dB(A)	-		ht Time P in dB(A	-
-		10.4.10	the optimum of	-	1			Lass	Lana	Lat	Lan	Lan	1.0
1	25.06.2023	a section of the	3/1670	G-N1	1	\$11000 Control (1997)	A statements	33.4	66.8	61.6	32.6	76.5	54.3
2	26.06.2023	A design of the local division of the local	3/1671	G-N2 G-N3	C	Sherreche	acivan	34.6	94.3	81.8	33.7	81.0	53.
3	24.06.2023	assession and the second	AND COMPANY OF A	in the second second	H	Nagzar Purve Casi	and some firms	31.9	78.4	53.8	31.6	72.8	43
4	24 06 2023	11000	3/1603	G-N4 G-N5	R	Chandel	an and the second	31.2	92.6	53.0	30.9	78.1	42
5	26.06.2023	A ANY COMPANY	3/1683	G-NS	8	And Landson Color	ere Poiscodein	30.6	80.4	55.2	34.4	78.1	42
6	26.06.2023	-	3/1663	G-N7	8	Warkhand	the rought	30.6	81.0	50.3	30.1	63.5	40.
7	And stated as a present of the second	and the second sec	3/16/2	G-N8	ć	Raivi Wat	+ Toronton	30.5	82.7	80.1	30.9	65.2	40.
8	29.06.2023	Construction and	3/1000	G-NB	5	Vilage Park	the second s	30.7	78.1	50.3	30.9	67.2	81.
10	27.06 2023	GAD	3/1584	M-N1	8	Ratarda		30.0	78.5	40.0	20.1	61.3	40.
11	23.08.2023	GAG	3/1667	M-N2	R	Dingana		30.3	80.4	80.8	30.1	68.7	43.
12	23.06.2023	GA2	3/1686	M-N3	H	Nestarthe		33.7	85.1	45.5	30.0	87.8	42.3
			I-Ind	ustrial Zo	me, C	- Comme	rcial Zone, R	- Resi	dential	Zone			
11	Noise Limits as	per Sc	Pedule I	I of The I	Environn	writ (Protect	ion) Rules, 1965	" are as !	lafiaws				
1					and a grant of the second	Limits	in dB(A	paic			_		
.1	Area Code			Category of Area			Day Time Night Time			716			
1	(A)		Indust	tial Area	(1)	75		70					
- E	(8)		Conve	nercial Are	(D) B		65		55				
1	(C)		Resid	ential Area	(R)		55		45				
1	(0)		Sienc	a Zone (S	E)		50		40	_			
21	Day time to re	ckaned	in between	ent 6 00 a	m to 10	pro and high	time is reckone	d in betw	men 10.0	ot mg 00	00.00 m	111	
1	the second second second second second second second	notes t	the tirres o	velighted a	velage t	one as some the second state of the local state of the	faound in decibe						earing
43	"A", in dB(A) L characteristics				y weighti	ng in the me	asulament of no	ine and o	contempor	nda to Re	Houminay	response	
5)	Leg : It is the a	energy	mean of	the noise	level ove	r a specified	period.	_					
t Tm a Tm a Cu a Cu For	GADARK L	AB	roducial a na conditio r is gualed upment's PVT. L	scapi in full ma prevalio le ut lationa used in mon	ig at the k Roly	the of samples	i of the laboratory 6 is back aste of an		HT.				
	HORISED S	IGNA				Contraction of the second	A				5	1 -1 -	алтара кер вл

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

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



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Takuka - Kudal, District - Sindhudurg - 416 525. Tel.: (02362) 223519 • E-mail : Info@guidark.in • Website : www.gadark.in

DFF: 15. Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Viktroli (West), Mumbal - S3. Tel.: (022) 2577 7069 / 2577 7070 / 2985 0091 + 91 93213 12367

TEST REPORT

	ANALYSIS R	EPORT FOR	WATER SAMPLE			
Report No.	GW/23/1004		Report Date		26/06	/2023
Client Name & Address	GMR Goa Internation Administrative Block Taluka Pernem, Mo	k, Mopa Inten	national Airport, Dadar	chiwadi	Road,	Nagzar,
Order / Reference	As Per Dated 20/06/2023	Environmental Condition of Lab		tion of Lab 23.9		Humidity % 40
Sampling Plan	GLPL/QF/7.3/06	Sampling I	Procedure No.	APH	A 106)
Sampling Point	WTP RO	- I receive and a section				
Sampling Details	WTP RO Inlet Wate	ir Sample	Date of Collection		20/06/2023	
Sample Collected by	GLPL Representativ	GLPL Representative Sample R			mple Received On 20/06	
Analysis Started On	20/06/2023	Anatysis Complete	nO be	26/06/2023		
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		4 14 +	1.25 lit

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.07		6.5-8.5	APHA 4500 H*
2	Turbidity	0.1	NTU.	1.00	APHA 2130 B
3	Taste	Agreeable	-	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	20.06	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	52	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	10,93	mg/lit.	250.00	APHA 4500 CH 8
9	Sulphate as SO ₄	1.00	titigm	200.00	APHA 4500 SO47 E
10	Sulphides	< 0.001	/mg/lit	0.05	APHA 4500 SPF
11	Total Hardness as CaCO ₃	32	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.055	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0,1	mg/fit	0.50	APHA 5520 8

For GADARK LAB PVT. LTD.

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INDUSTRIAL ANALYSTS & CONSULTANTS

LAB : H-54, Additional M I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525. Tel. : (02362) 273519 • E-mail : info@gadark.in • Website : www.gadark.in

CEF: 15. Hindustan Kohinoor Industrial Complex, L.B.5. Marg, Vikhroli (West), Mumbai - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

Report No.	GW/23/1004	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Airpo Administrative Block, Mopa Ir Taluka Pemern, Mopa, North	ternational Airport, Dadachiw	adi Road, Nagzar,

Chemical Testing:

1

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nit	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.018	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	tilligm.	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit.	0.50	APHA 4500 B - B
23	Calcium as Ca	5.61	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	fron as Fe	0.068	tiligm	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	4.38	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mgAit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	4.6	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg. Vikhroll (West), Mumbril - 83, Tel.: (022) 2577 7069 / 2577 7070 / 2055 0091 + 911 93213 12367

TEST REPORT

Report No.	GW/23/1004	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - 8
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

End

For GADARK LAB PVT. LTD.

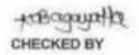
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Note:

- 1. Results relate only to the sample tested.
- 2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
- 3. Samples will be preserved for a period 15 days from the delivery of Test Report.
- 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.





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				Calibration Details		
Sr. No.	Equipment Name	Equipment Name Equipment Id Certificate No.		Calibration Date	Next Calibration Due Date	
01.	pH Mater	GL/EQ/pH/01		In house	Calibration	
02.	Turbiclity Meter	GL/EQ/Turb/01		In house	Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AV//2207023	01/07/2022	30/06/2023	
04.	Hot Air Oven	GL/EQ/D/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GUEQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
06.	ICP - DES	GL/EQ/ICP/01		In house	Calibration	
07	Microbiological Incubator (37 °C)	GL/EQ/I-01	AVI/2207005	01/07/2022	30/06/2023	
80	Microbiological Incubator (44.5 ⁸ C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GLA.F/01	TECH/VAL/ 2023/02/89	20/06/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AV//2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVI/2207817	01/07/2022	30/06/2023	

Equipment Calibration Details



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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), Mumber - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2005 0091 + +91 93213 12367

TEST REPORT

	ANALYSIS REP	ORT FOR	WATER SAMPLE				
Report No.	GW/23/1005		Report Date	26	06/202	23	
Client Name & Address	GMR Goa International / Administrative Block, Mo Taluka Pernem, Mopa, N	opa Interna	itional Airport, Dadach	wadi Roa	d, Nag	zar,	
Order / Reference	As Per Dated	Environmental Condition of Lab		Ten	D ^o qn	Humidity %	
Order / Heierence	20/06/2023 Environ		mental Condition of L	2	3.9	40	
Sampling Plan	GLPL/QF/7 3/06	Sampli	ng Procedure No.	APH	APHA 1060		
Sampling Point	PTB LO Water Fountain						
Sampling Details	PTB LO Water Fountain	Sample	Date of Collection	20	20/06/2023		
Sample Collected by	GLPL Representative		Sample Received On 20/06/2		06/202	23	
Analysis Started On	20/06/2023		Analysis Completed On 2		26/06/2023		
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity 4 lit + 1.25		5 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.05	1	6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	12.05	rng/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	40	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	9.93	50/gm	250.00	APHA 4500 CHB
9	Sulphate as SO4	0.75	mg/lit	200.00	APHA 4500 SO4P E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S2F
11	Total Hardness as CaCO ₂	24	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHa
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1005	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NOs	0.010	mg/lit	45.00	APHA 4500 NO2 8
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	4.01	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.049	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	3.41	50 gm	30,00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	15 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	4.1	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1005	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernern, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5 ^A C for 24 hts.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

End

For GADARK LAB PVT. LTD.

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Note:

1. Results relate only to the sample tested.

2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

3. Samples will be preserved for a period 15 days from the delivery of Test Report.

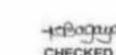
4. Customer complaint register is available at laboratory.

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

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	Press appropriate the second s			Calibration Details		
Sr. No.		Certificate No.	Calibration Date	Next Calibration Due Date		
01.	pH Meter	GL/EQ/pH/01		in house	Calibration	
02	Turbidity Meter	GL/EQ/Turb/01	-	in house	Calibration	
03	Analytical Balance	GL/EG/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04	Hut Air Oven	GL/EG/Q/01	AVI/2207012	01/07/2022	30/06/2023	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
06.	ICP-OES	GL/EQ/ICP/01	*	In house Calibration		
07	Microbiological Incubator (37 °C)	GL/EQ/1-01	AV1/2207006	01/07/2022	30/06/2023	
08.	Microbiological Incubator (44.5 °C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/ 2023/02/89	20/06/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVV/2207017	01/07/2022	30/06/2023	

Equipment Calibration Details



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OFF : 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroll (West), Mumbal - 53, Tel.: (022) 2577 7069 / 2577 7070 / 2065 0091 + +91 93213 12367

TEST REPORT

	ANALYSIS	REPORT FOR V	VATER SAMPLE		
Report No.	GW/23/1006		Report Date	21	6/06/2023
Client Name & Address	GMR Goa Internati Administrative Bloc Taluka Pernem, Mo	k, Mopa Internati	onal Airport, Dadach	hiwadi Ro	ad, Nagzar,
Order / Reference	As Per Dated	Environmental Condition of Lab		Temp ⁰	C Humidity %
Circler: / Preferionice	20/06/2023	covironmenta	Charlenges Condision of Lab		40
Sampling Plan	GLPL/QF/7.3/06	Sampling Pro	cedure No.	APHA 1050	
Sampling Point	Aircraft Filling Point	(Apron)		-	1
Sampling Details	Aircraft Filling Point	(Apron)	Date of Collec	tion	20/06/2023
Sample Collected by	GLPL Representative		Sample Recei	ved On	20/06/2023
Analysis Started On	20/06/2023		Analysis Com	pleted On	26/06/2023
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		4 fit + 1.25 fit

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.06		8.5-8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
-5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	8.03	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	37	mg/lit	500,00	APHA 2540 C
8	Chlorides as Cl	7.95	mg/lit.	250.00	APHA 4500 CHB
9	Sulphate as SO ₄	0.50	mg/lit.	200.00	APHA 4500 SOx2 E
10	Sulphides	< 0.001	mg/lit.	0.05	APHA 4500 S ² F
11	Total Hardness as CaCO ₂	20	mg/lit.	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH ₃
13	Mineral Oil	< 0.1	mg/lit.	0.50	APHA 5520 B

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DEF: 15, Hindustan Kohincor industrial Complex, I. B.S. Marg, Vikhroll (West), Mumbai - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 93213 12367

TEST REPORT

Report No.	GW/23/1005	Report Date	28/08/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	28/06/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.009	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	IS 3025
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as 8	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	2.40	mg/lit	75.00	APHA 3500 Ca 8
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.072	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 8
27	Magnesium as Mg	3.41	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	tiftgm	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	3.9	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	thom	0.05	APHA 3120 8

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

TEST REPORT

Report No.	GW/23/1006	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 379C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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Note:

- 1. Results relate only to the sample tested.
- 2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
- 3. Samples will be preserved for a period 15 days from the delivery of Test Report.
- 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.



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Equipment Calibration Details

				Calibration Details		
Sr. No	Equipment Name	ament Name Equipment Id Certificate No.		Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house	Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01		In house	Calibration	
03,	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
64.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
05	U V Spectrophotometer	GL/ED/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
.80	ICP - OES	GL/EQ/ICP/01	-	In house	Calibration	
07.	Microbiological Incubator (37 °C)	GL/EQ/I-01	AV#2207006	01/07/2022	30/06/2023	
08.	Microbiological Incubator (44.5 °C)	GL/EQ/1-03	AV#2207016	01/07/2022	30/06/2023	
09	Laminar Air Flow	GL/LF/01	TECH/VAL/ 2023/02/89	20/06/2023	15/02/2024	
10.	Autoclave	GL/EG/A/01	AVI/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WE/01	AV#2207017	01/07/2022	30/06/2023	



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DFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroll (West), Mumbai - 83, Tel.: (022) 2577 7668 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

	ANALYSIS	REPORT FOR	WATER SAMPLE				
Report No.	GW/23/1007		Report Date	Report Date		2023	
Client Name & Address	GMR Goa Internation Administrative Bloc Taluka Pernem, Mo	k, Mopa Interna	abonal Airport, Dadad	shiwadi l	Road, M	lagzar,	
Order / Reference	As Per Dated 20/06/2023	Environmental Condition of Lab		Terri 23	p°C 9	Humidity % 40	
Sampling Plan	GLPL/QF/7.3/06	Sampling P	rocedure No.	APH	A 1060	0	
Sampling Point	Retail Outlet (Idli.co	em)					
Sampling Details	Retail Outlet (Idli.co	m-12)	Date of Collectio	n.	20/0	6/2023	
Sample Collected by	GLPL Representative		Sample Receive	Sample Received On		6/2023	
Analysis Started On	20/06/2023		Analysis Comple	Analysis Completed On		a 26/06/2023	
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity	Sample Quantity		4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.03		6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 8
5	Odour	Agreeable		Agreeable	APHA 2150 B
8	Total Alkalinity	10.04	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	39	mg/tit	500.00	APHA 2540 C
8	Chlorides as Cl	8.94	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO+	1.00	mgilit	200.00	APHA 4500 SOv2-E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S ² F
11	Total Hardness as CaCO ₂	22	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0,1	mg/lit	0.50	APHA 5520 B

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DFF. 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

Report No.	GW/23/1007	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Gos International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₂	0.011	mg/lit	45.00	APHA 4500 NO2 B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	IS 3025
18	Cyanide	< 0.001	mg/lit.	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit.	0.50	APHA 4500 B - 8
23	Calcium as Ca	4.01	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.050	mg/lit.	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	2.92	mg/lit	30.0	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit.	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit.	5.00	APHA 3111 B
31	Sodium as Na	4.2	5i/gm	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0,1	mg/lit	Not Specified	APHA 3500 K 8
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1007	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method	
34	Total Coliform at 37°C for 48 hrs.	Absent MPN Shall not be detectable in Index/100ml any 100 ml sample		APHA 9221 - B		
35	E.Coli at 44.5°C for 24 hm.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G	

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Equipment Calibration Details

Sr. No.	Equipment Name			Calibration Details	
		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01	pH Metor	GL/EQ/pH/01	1.29	in house Calibration	
02	Turbidity Meter	GL/EQ/Turb/01	-	In house Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023
04	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/16/2023
06.	ICP - OES	GL/EQ/ICP/01	*	In house Calibration	
07	Microbiological Incubator (37 °C)	GL/EQ/1-01	AVI/2207006	01/07/2022	30/06/2023
08.	Microbiological Incubator (44.5 °C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/ 2023/02/69	20/05/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023
11.	Water Bath	GLIEQ/WB/01	AV#2207017	01/07/2022	30/06/2023



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TEST REPORT

	ANALYSIS	REPORT FOR 1	WATER SAMPLE				
Report No.	GW/23/1008	Report Date		26/06/2023			
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 20/06/2023	Environment	mmental Condition of Lab 23		to be a second secon	Humidity % 40	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060			
Sampling Point	Admin Building Firs	t Floor	and a state of the second s				
Sampling Details	Admin Building Water Dispenser		Date of Collection		20/06/2023		
Sample Collected by	GLPL Representative		Sample Received On		20/06/2023		
Analysis Started On	20/06/2023		Analysis Completed On		26/06/2023		
Sample Container	Piastic Carboy + Glass Bottle		Sample Quantity		4 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.09	-	6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	141	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	16.06	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	44	tiftgm	500.00	APHA 2540 C
B	Chlorides as Cl	6.95	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO ₄	1.50	mg/lit	200.00	APHA 4500 SO42 E
10	Sulphides	< 0.001	mg/lit.	0.05	APHA 4500 S2F
11	Total Hardness as CaCOs	28	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0,1	mg/lit.	0.50	APHA 5520 8

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DFF: 15, Hindustan Kohinoor industrial Complex, L.B.S. Marg. Vikhroli (West), Mumbel – 63. Tel. (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

Report No.	GW/23/1008	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Started On	20/05/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nit	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.021	mg/lit	45.00	APHA 4500 NO3 8
16	Fluoride as F	< 0.001	rng/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	rngilit	0.001	IS 3025
18	Cyanide	< 0.001	mg/lit.	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0,001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	tiñgm	0.50	APHA 4500 B - B
23	Calcium as Ca	4.81	mgAit	75.00	APHA 3500 Ca 8
24	Cadmium as Cd	< 0.002	tiligen	0.003	APHA 3120 B
25	Iron as Fe	0.053	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	3.89	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	5.0	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	0.034	mg/lit	0.05	APHA 3111 8

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1008	Report Date	26/06/2023
Order / Reference	As Per Dated 20/06/2023	Sample Received on	20/06/2023
Analysis Starled On	20/06/2023	Analysis Completed On	26/06/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37ºC for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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Note:

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



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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	-	In house	Calibration	
02	Turbidity Meter	GL/EQ/Turb/01		In house Calibration		
03.	Analytical Balarice	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
64.	Hot Air Oven	GL/EQ/O/01	AV#2207012	01/07/2022	30/06/2023	
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/ 2223/082	15/10/2022	14/10/2023	
06	ICP - DES	GL/ED/ICP/01	-	In house Calibration		
07.	Microbiological Incubator (37 °C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023	
08	Microbiological Incubator (44.5 °C)	GL/EQ/H03	AV#2207016	01/07/2022	30/06/2023	
09.	Laminar Air Flow	GL/LF/D1	TECH/VAL/ 2023/02/89	20/06/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AV1/2207004	01/07/2022	30/06/2023	
11.	Water Bath	GL/EQ/WB/01	AVV2207017	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1009 Report Date		Report Date	teport Date 26/		
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi Road	i, Nagzar,	
Order / Reference	As Per Dated 20/06/2023	Environmental Condition of Lab		Temp 4 31.7	C Humidity % 70	
Sampling Plan	GLPL/QF/7.3/06	Sampling	Procedure No.	APHA 1060		
Sampling Point	STP Inlet					
Sampling Details	STP Inlet Water Sample	0	Date of Collection		06/2023	
Sample Collected by	GLPL Representative		Sample Received On		06/2023	
Analysis Started On	20/06/2023	A	Analysis Completed Or		06/2023	
Sample Container	Plastic Carboy + Glass Bot	tie S	Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method	
1	pH	6.89	+	APHA 4500 H*	
2	Chemical Oxygen Demand (COD)	1022	mg/lit	APHA 5220 B	
3	Biochemical Oxygen Demand (27°C day) (BOD)	350 mg/lit		IS 3025 (Part 44): 1993	
4	Total Suspended Solids (TSS)	89	mg/lit	APHA 2540 D	
5	Oil & Grease (O & G)	8	mg/lit	APHA 5520 B	
6	Ammonia	78.21	mg/lit	APHA 4500 NHs B&C	
7	Total Nitrogen (as N)	95.95	mg/lit	APHA 4500-Norg	

Microbiological Parameters:

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

For GADARK LAB PVT. LTD.

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Sr. No.	Equipment Name	and an enderson	Certificate	Calibration Details		
		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01_	pH Mater	GL/EQ/pH/01	GL/EQ/pH/01 -	In house Calibration		
02.	Hot Air Oven	GL/EQ/0/01	AVV2207012	01/07/2022	30/06/2023	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023	
04.	BOD Incubator	GL/EQ/V02	AVI/2207014	01/07/2022	30/06/2023	
05.	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AV1/2207006	01/07/2022	30/06/2023	
05	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	01/07/2022	30/06/2023	
07	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024	
68	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS	REPORT FO	R WATER SAMPLE			
Report No.	GW/K//23/0050		Report Date	28/06		2023
Client Name & Address	GMR Goa Internation Administrative Bloc Taluka Pernem, Mo	k, Mopa Interr	national Airport, Dadad	hiwadi	Road, N	lagzar,
Order / Reference	As Per Dated 20/06/2023	Environmental Condition of Lab		Temp *C 31.7		Humidity % 70
Sampling Plan	GLPL/QFJ7.3/06	Sampling A	Procedure No.	APHA 1060		
Sampling Point	STP Outlet			-		
Sampling Details	STP Outlet Water S	lample	Date of Collection	20/06/2023		2023
Sample Collected by	GLPL Representati	W0	Sample Received	d On 20/06/2023		2023
Analysis Started On	20/06/2023		Analysis Completed On		1 On 26/06/2023	
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		5前+1.25前	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.08		5.5 - 9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	43	mg/lit	50.00	APHA 5220 8
3	Biochemical Oxygen Demand (27°C day) (BOD)	9	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	17	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.36	mg/lit	5.00	APHA 4500 NHs B&C
7	Total Nitrogen (as N)	8.85	rng/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

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

For GADARK LAB PVT. LTD.

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Sr. No.	Equipment Name		Certificate	Calibration Details		
		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01	pH Meter	GL/EQ/pH/01	Sec	to house Calibration		
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
03	COD Digestor	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/05/2023	
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	01/07/2022	30/06/2023	
05.	Microbiological Incubator (37 ° C)	GUEQ/I-01	AVI/2207006	01/07/2022	30/06/2023	
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023	
07.	Lammar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024	
08.	Autoclave	GUEQ/A/01	AVI/2207004	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1035		Report Date	04/0	7/2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mope Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi Road,	Nagzar,	
Order / Reference	As Per Dated 28/06/2023	Environmental Condition of Lab		Temp [®] C 28.8	Humidity % 82	
Sampling Plan	GLPL/QF/7.3/08	Sampling	Procedure No.	APHA 1060		
Sampling Point	OWS Iniet Storm Water Sa	mple		A CONTRACTOR OF A CONTRACTOR		
Sampling Details	OWS Inlet	D	ate of Collection	28/0	92023	
Sample Collected by	GLPL Representative	St	Sample Received On		3/2023	
Analysis Started On	28/06/2023		Analysis Completed Or		1/2023	
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		5 lit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.61		APHA 4500 H*
2	Turbidity	51.4	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	61	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27 ⁶ C day) (BOD)	8	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	44	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	22	mg/lit	APHA 2540 C
6	Manganese (Mn)	0.077	mg/lit	APHA 3111 8
9	Iron (Fe)	0.080	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

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For GADARK LAB PVT. LTD.

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Sr, No.	Equipment Name		10	Calibration Details		
		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01	pH Meter	GL/EQ/pH/01	-	In house Calibration		
02.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04	BOD Incubator	GL/EQ///02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	1.00	Inhouse	Inhouse	
06.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPU/C /2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

ANALYSIS REPORT	FOR WA	TER SAMPLE		
GW/23/1037 Report Date		Report Date		2023
Administrative Block, Mopa	Internatio	nal Airport, Dadachi	wadi Road, N	lagzar,
As Per Dated 28/06/2023	Environmental Condition of Lab		Temp ⁶ C 28.8	Humidity % 82
GLPU/QF/7.3/06	Samplin	Procedure No.	APHA 1060	
OWS Outlet Storm Water 8	Sample			
OWS Outlet	1	Date of Collection	28/06/2023	
GLPL Representative Sa		Sample Received Or	On 28/06/2023	
28/06/2023 Analysis Completed		Analysis Completed	On 04/07	2023
Plastic Carboy + Glass Bot	the i	Sample Quantity	5 lit + 1 lit	
	GW/23/1037 GMR Goa International Air Administrative Block, Mopt Taluka Pernem, Mope, Nor As Per Dated 28/06/2023 GLPL/QF/7.3/06 OWS Outlet Storm Water 8 OWS Outlet GLPL Representative 28/06/2023	GW/23/1037 GMR Goa International Airport Limite Administrative Block, Mopa Internatio Taluka Pernem, Mopa, North Goa - 4 As Per Dated 28/06/2023 GLPL/QF/7.3/06 Sampling OWS Outlet Storm Water Sample OWS Outlet GLPL Representative 3 28/06/2023	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachi Taluka Pernem, Mopa, North Goa - 403512 As Per Dated 28/06/2023 Environmental Condition of Lab GLPL/QF/7.3/06 Sampling Procedure No. OWS Outlet Storm Water Sample Date of Collection GLPL Representative Sample Received Or 28/06/2023 Analysis Completed	GW/23/1037 Report Date 04/07/ GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, M Taluka Pernem, Mopa, North Goa - 403512 Dadachiwadi Road, M As Per Dated 28/06/2023 Environmental Condition of Lab Temp ⁶ C GLPL/QF/7.3/06 Sampling Procedure No. APHA 106 OWS Outlet Storm Water Sample Date of Collection 28/06/ GLPL Representative Sample Received On 28/06/ 28/06/2023 Analysis Completed On 04/07/

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.4	19 C	APHA 4500 H*
2	Turbidity	21.09	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	15	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27 ⁶ C day) (BOD)	5	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	15	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	21	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.073	mg/lit	APHA 3111 B
9	Iron (Fe)	0.073	mg/iit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BOL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l End

For GADARK LAB PVT. LTD.

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Sr. No.	Equipment Name			Calibration Details		
		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01	pH Meter	GL/EQ/pH/01	-	In house Calibration		
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
06.	Nepheiometer	GL/EQ/Turb/01		Inhouse	Inhouse	
06	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024	
67	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1032		Report Date	04/0	7/2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi Road,	Nagzar,	
Order / Reference	As Per Dated 25/06/2023	Environmental Condition of Lab		Temp *0 28.8	Humidity %	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	LS 4 A Storm Water Sampl	le				
Sampling Details	Storm Water LS 4 A	D	ate of Collection	26/06/2023		
Sample Collected by	GLPL Representative	S	Sample Received On		6/2023	
Analysis Started On	28/06/2023		Analysis Completed Or		7/2023	
Sample Container	Plastic Carboy + Glass Bot	tie S	Sample Quantity		5 lit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.07		APHA 4500 H*
2	Turbidity	95.2	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COO)	38	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27ºC day) (BOD)	9	mg/tit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	71	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	62	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.019	mg/lit	APHA 3111 B
9	Iron (Fe)	0.070	mg/lit	APHA 3111 B

End

For GADARK LAB PVT. LTD.

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Sr.	Equipment Name	and a second second	Certificate	Calibration Details		
No.		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house Calibration		
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
64	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
06	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE				
Report No.	GW/23/1033		Report Date	04/07	7/2023		
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 26/06/2023	Environmental Condition of Lab		Temp °C 28.8	Humidity % 82		
Sampling Plan	GLPL/QF/7 3/06	Sampling	Procedure No.	APHA 1050			
Sampling Point	LS 3 Storm Water Sample						
Sampling Details	Storm Water LS 3	D	ate of Collection	28/05/2023			
Sample Collected by	GLPL Representative	S	Sample Received On		5/2023		
Analysis Started On	28/06/2023		Analysis Completed O		7/2023		
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		5 lit + 1 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.59		APHA 4500 H*
2	Turbidity	94.8	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	15	mg/lit	APHA 5220 8
4	Biochemical Oxygen Demand (27°C day) (BOD)	5	mg/tit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	62	mg/lit	APHA 2540 D
8	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180ºC	98	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.103	mg/lit	APHA 3111 B
9	Iron (Fe)	< 0.049	mg/lit	APHA 3111 B

End

For GADARK LAB PVT. LTD.

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Sr.		Section Property	Certificate	Calibration Details		
No.	Equipment Name Equipment Id No.	Calibration Date	Next Calibration Due Date			
01.	pH Meter	GL/EQ/pH/01		In house Calibration		
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03	COD Digester	GL/EQ/COD/01	AV0/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	~	Inhouse	Inhouse	
06.	AAS (GBC)	GL/EQ/AAS/01	-	Inhousie	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1034	GW/23/1034 Report Date			04/07/2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi F	Road, N	lagzar,
Order / Reference	As Per Dated 28/06/2023	Environmental Condition of Lab		ntal Condition of Tern 28		Humidity % 82
Sampling Plan	GLPL/QF/7 3/06	Sampling	Procedure No.	APHA 1060		
Sampling Point	LS I Storm Water Sample	-		1.1.1		
Sampling Details	Storm Water LS 1	D	ate of Collection		28/06/	2023
Sample Collected by	GLPL Representative	GLPL Representative Sample Received On			n 26/06/2023	
Analysis Started On	28/06/2023					
Sample Container	Plastic Carboy + Glass Bot	lastic Carboy + Glass Bottle Sample Quantity 5 kt + 1 lit				

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.72		APHA 4500 H*
2	Turbidity	77.0	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	46	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	9	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	58	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	55	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.054	mg/lit	APHA 3111 B
9	Iron (Fe)	0.101	mg/lit	APHA 3111 B

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For GADARK LAB PVT. LTD.

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Note:

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Sr.		Carl March Table	Certificate	Calibration Details		
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	1010	In house Calibration		
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
63	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
85	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
06	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Inhouse	



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

CFF: 15. Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikturoli (West), Mumbai - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 03213 12367

TEST REPORT

	ANALYSIS REPORT	FOR WAT	TER SAMPLE			
Report No.	GW/23/1035	GW/23/1035		04/07/20		2023
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 28/06/2023	Environmental Condition of Lab		Tem 28	p*C	Humidity % 82
Sampling Plan	GLPL/QF/7.3/06	Sampling	Procedure No.	APHA 1060		0
Sampling Point	Air Side Outfall 2 Storm W	later Samp	No			
Sampling Details	Air Side Outfall 2	1	Date of Collection	28/06/2023		2023
Sample Collected by	GLPL Representative	GLPL Representative Sample Received O		n. 2	28/06/	2023
Analysis Started On	28/06/2023 Analysis Completed Or		On (04/07/	2023	
Sample Container	Plastic Carboy + Glass Bot	Plastic Carboy + Glass Bottle Sample Quantity			5 lit + 1	t lit.

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.5	(a.)	APHA 4500 H*
2	Turbidity	93	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	19	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27 ⁶ C day) (BOD)	6	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	72	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	36	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.065	mg/lit	APHA 3111 8
9	Iron (Fe)	0.075	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

For GADARK LAB PVT. LTD.

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Sr.	Press Pres Pre	The second second	Contificate	Calibration Details		
No.		Calibration Date	Next Calibration Due Date			
01.	pH Meter	GL/EQ/pH/01	*	In house Calibration		
02	Hot Air Oven	GL/EQ/O/01	AVV2207012	29/06/2023	28/06/2024	
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	inhouse	
06,	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/G /2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1038		Report Date	04/0	7/2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi Road,	Nagzar,	
Order / Reference	As Per Dated 28/06/2023	8/05/2023 Environmental Condition of Lab		Temp *C	and the production of the last	
	The Contraction of the Instances.			28.8	82	
Sampling Plan	GLPL/QF/7.3/05	Sampling	Procedure No.	APHA 1060		
Sampling Point	Air Side Outfall - 3 Storm V	Nater Samp	le			
Sampling Details	Air Side Outfall - 3	D	ate of Collection	26/06/2023		
Sample Collected by	GLPL Representative Sample Received On		n 28/06/2023			
Analysis Started On	28/06/2023 Analysis Completed C			t On 04/07/2023		
Sample Container	Plastic Carboy + Glass Bot	tie S	ample Quantity	5 lit + 1 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.2		APHA 4500 H*
2	Turbidity	93	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	15	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	4	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	84	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	30	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.050	mg/lit	APHA 3111 8
9	Iron (Fe)	0.081	mg/lit.	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

For GADARK LAB PVT. LTD.

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Sr.	Equipment Name	in the second second	Certificate	Calibration Details		
No.		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hour	se Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AV#2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
06	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Inhouse	



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TEST REPORT

			AMBIENT AIR QUALITY I	MONITORING REPORT					
Report	t Date	00	V08/2023	38/2023					
Name	of Client	M	S. GMR GOA INTERNATION	GMR GOA INTERNATIONAL AIRPORT LIMITED					
Addres	is of Client			INISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, IZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.					
Sampli	ing Plan	G	LPL/QF/7.3/06	Page No. 1 of 1					
Sample	e Collected B	y G	LPL Representative	PL Representative					
Month	of Sampling	Ji	dy 2023						
-			AMBIENT AIR	LOCATION					
ditie	on of Ambient	Air Station	Mopa Boundry - Goa St	ate (G-A1)					
Averag	pe Ambient Te	mperature (*C)	30.5	Average Humidity (%)	90				
Averag	e Wind Spee	d (km/hr)	58	Average Wind direction (Deg)	310				
Latitud	le		N 15*45'51.1*	Longitude	E 73*56'32.4'				
Instrum	nent Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				
Sr.	Date of		PARAMETERS						
No.	Esmolian	Report No.	ana ar I ar	I may I am I am I	in the test				

Sr. Date of Report No.			PARAMETERS								
No.	Sampling	Report No.	SPM	PMie	PMas	SOr	NOx	co	COT	Lead	VOC
1	03.07.2023	GA/23/1718	32.5	48.07	8.61	< 8.0	< 9.0	0.38	122.2	0.06	< 1.0
2	06.07.2023	GA/23/1729	30.3	51.97	11.02	< 6.0	< 9.0	0.36	120.7	0.04	< 1.0
3	10.07.2023	GA/23/1744	21.3	45.60	9.56	< 6.0	< 9.0	0.39	133.9	0.07	< 1.0
4	13.07.2023	GA/23/1767	19,9	41.75	12.06	< 8.0	< 9.0	0.46	134.9	0.06	< 1.0
5	17.07.2023	GA/23/1790	18.8	38.51	10.19	< 6.0	< 9.0	0.34	110.5	0.03	< 1.0
6	20.07 2023	GA/23/1803	16.0	31.06	10,73	< 6.0	< 9.0	0,40	109.7	0.02	< 1.0
7	24.07.2023	GA/23/1814	15.3	43.33	13.58	<6.0	< 9.0	0.36	118.3	0.04	< 1.0
	27.07.2023	GA/23/1825	26.7	47.43	11.98	< 6.0	< 9.0	0.28	125.2	0.03	< 1.0
9	31.07.2023	GA/23/1836	36.4	57.26	14.43	< 6.0	< 9.0	0.41	119.3	0.04	< 1.0
	NAAQS LI	MITS *	**	100	60	80	80	2	-	1	-
	UNIT	s	µg/m ²	µg/m ³	pig/m ³	µg/m ²	µg/m³	mg/m ³	ppm	prophys 3	ppm
	METH	00	15 5162 (Part 4)	15 5182 (Part XXXI) 2006	USEPA FEM. 40 CFR Part 50. Appenda- L. 2014-2018	10 5162 (Part II) 2001	15 6182 (Pwr VI) 2006	15.5182 (Pw4.X) 1999	GC Method	15 A182 (Part X00) 2004	EPA Method 18

"N.A.A.Q.S. - National Ambient Air Quality Standards

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Costomer complexity register is available at laboratory.

8. Calibration details of the equipment's used it monitoring and I or analysis is lack side of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]



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

CALIBRATION D	ETAILS OF	EQUIPMENT	USED	FOR	SAMPLING
---------------	-----------	-----------	------	-----	----------

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



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudat, Taluka - Kudat, District - Sindhudurg - 416 825: Tel. ; (02362) 223519 • E-mail : info@gadark.in • Website : www.gadark.in

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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT							
Report Date	03/0	03/08/2023								
Name of Client	M/s	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED								
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,						
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1						
Sample Collected By GLPL Representative										
Month of Sampling	July	2023								
-		AMBIENT AIR	LOCATION							
ation of Ambient Air Sta	tion	Shemecheadvan Goa !	State (G-A2)							
Average Ambient Temperat	ure (*C)	30	Average Humidity (%)	86						
Average Wind Speed (km/h	w)	62.5	Average Wind direction (Deg)	321						
Latitude		N 15*42'06.1*	Longitude	E 73*49'21.5"						
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)						

Sr.	Date of			PARAMETERS								
Na,	Sampling	Report No.	SPM	PMit	PMEA	\$0r	NOx	CO	COr	Load	VOC	
1	03.07.2023	GA/23/1717	19.2	38.34	11.48	< 6.0	< 9.0	0.86	134.3	0.04	< 1.0	
2	06.07.2023	GA/23/1728	17.7	46.11	15.01	< 6.0	< 9.0	0.21	103.5	0.03	< 1.0	
5	10.07.2023	GA/23/1743	15.9	39.14	13.68	<8.0	< 9.0	0.59	134.8	0.05	< 1.0	
4	13.07.2023	GA/23/1768	14.1	44.73	12.02	< 6.0	< 9.0	0.42	139.4	0.07	< 1.0	
5	17.07.2023	GA/23/1789	12.6	39.51	9.77	< 6.0	< 9.0	0.52	103.7	0.03	< 1.0	
6	20.07.2023	GA/23/1802	10.1	35.06	9.52	<8.0	< 9.0	0.43	115.7	0.05	< 1.0	
7	24.07.2023	GA/23/1813	11.8	38.21	11.99	< 6.0	< 9.0	0.99	136.4	0.05	< 1.0	
3	27.07.2023	GA/23/1824	22.1	44.66	10.98	< 6.0	≪ 9.0	0.62	130.0	0.04	< 1.0	
9	31.07.2023	GA/23/1835	32.5	56.50	12.85	< 6.0	< 9.0	0,45	116.6	0.03	< 1.0	
	NAAQS LI	M/TS *	-	100	60	80	80	2	-	1		
	UNIT	5	µg/m ³	µg/m ³	µg/m ¹	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm	
	METH	00	15 8182 (Pbd 4)	15 3142 (Part XXXI) 2008	USEPA FEM. 40 CFR Patt 50, Appendia- 1, 2014-2016	15 3182 (Part 4) 2001	15 5182 (Part VI) 2008	/5.5182 (Pw1X) 1990	GC Method	15 5182 (Putt XXI0 2004	EPA Alethod 18	

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

For GADARK LAB PVT. LTD. Beardes

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

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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. 936-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 476-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 471-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	03/0	03/08/2023							
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED						
Address of Client			PA INTERNATIONAL AIRPORT, DA KOPA, NORTH GOA 403512.	DACHIWADI ROAD,					
Sampling Plan	GU	PL/QF77.3/06	Page No.	1 of 1					
Sample Collected By	GL	L Representative							
Month of Sampling	July	2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air St	ation	Nagzar - Goa State (G-	A3)						
Average Ambient Temper	Hure (*C)	30.5	Average Humidity (%)	92					
Average Wind Speed (km	(hr)	65	Average Wind direction (Deg)	292					
Latitude		N 15*45'37.3*	Longitude	E 73*53*14.22*					
Instrument Used		FPS (APM - 550)	RDS (APM - 450)	GPS (APM - 411)					

Sr.	Date of	Description 1	PARAMETERS								
No.	Sampling	Report No.	SPM	PM ₁₈	PMAR	SOF	NOx	CO	COI	Lead	VOC
1	03.07.2023	GA/23/1710	68.3	47.48	13.64	< 6.0	< 9.0	0.79	125.1	0.005	< 1.0
2	06.07.2023	GA/23/1721	59.3	45.55	15.14	< 6.0	< 0.0	86.0	135.8	0.01	< 1.0
3	10.07.2023	GA/23/1736	46.9	44.09	11.60	< 6.0	< 9.0	0.50	124.6	0.03	< 1.0
4	13.07.2023	GA/23/1759	38.5	41.92	12.48	< 6.0	< 9.0	0.64	126.9	0.04	< 1.0
5	17.07.2023	GA/23/1782	33.4	40.23	9.86	< 6.0	<90	0.44	129.2	0.03	< 1.0
6	20.07.2023	GA/23/1795	30.8	36.55	0.02	< 6.0	< 9.0	0.71	125.7	0.02	< 1.0
7	24.07.2023	GA/23/1808	28.0	45.54	10.85	< 6.0	<9.0	0.50	110.3	0.04	<1.0
.8	27.07.2023	GA/23/1817	30.9	50.37	11.27	< 6.0	≪ 9.0	0.40	117.3	0.05	<1.0
1	31.07.2023	GA/23/1828	35.4	59.88	13.14	< 6.0	< 9.0	0.57	125.4	0.03	< 1.0
	NAAQS LIM	ITS *	-	100	60	80	80	2	198	1	
	UNITS	0.000	µg/m ²	µg/m ³	µg/m ³	ug/m ³	µg/m ²	mg/m ²	ppm	µg/m ³	ppm
	METHO	D	15 5182 (Plat.4)	15 5182 (Part XX88) 2008	USEPA FEM, 40 CFR Part 50. Appendia- L. 2014-2018	75.5162 (Part II) 2001	15 5182 (Pwt V0 2006	(53152 (754132) 1999	GC Method	(5.5182 (Part XXI) 2004	EPA Method 18

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

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4. Test Results relate only to the conditions previating at the time of sampling

5. Customer complaint register is available all lateratory

E Calibration decisits of the equipment's used in monitoring and / or analysis is task pole of analysis report For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 847-DTJ-2019	08/10/2022	08/10/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6896-DTC-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		AMBIENT AIR QUALITY N	IONITORING REPORT							
Report Date	0.3/0	03/05/2023								
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED							
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.								
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1						
Sample Collected By	Collected By GLPL Representative									
Month of Sampling July 2023										
~		AMBIENT AIR	LOCATION							
Lucation of Ambient Air Sta	tion	Purva Casarvamem - G	oa State (G-A4)							
Average Ambient Tempera	ture (*C)	30	Average Humidity (%)	90						
Average Wind Speed (km/h	w)	68	Average Wind direction (Deg)	288						
Latitude		N 15*41'41.9"	Longitude	E 73*50'16.6*						
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)						

Date of	Report No.	PARAMETERS								
Sampling	Report No.	SPM	PMie	PMLs	SO	NOx	CO	CO2	Lead	VOC
03.07.2023	GA/23/1711	38.0	38.45	12.10	< 6.0	< 9.0	0.82	141.4	0.11	< 1.0
06.07.2023	GA/23/1722	31.9	43.12	11.02	< 6.0	< 9.0	0.37	112.4	0.02	< 1.0
10.07.2023	GA/23/1737	22.2	37.96	10,81	< 6.0	< 9.0	0.23	119.6	0.06	< 1.0
13.07.2023	GA/23/1760	20.2	40.86	7.65	< 8.0	< 9.0	0.41	115.4	0.04	< 1.0
17.07.2023	GA/23/1783	18.8	36.12	11.73	< 6.0	< 9.0	0.53	114.3	0.02	< 1.0
20.07.2023	GA/23/1796	17.6	32.96	6.45	< 6.0	< 9.0	0.37	120.3	0.03	< 1.0
24.07.2023	GA/23/1807	15.7	36.54	8.36	< 6.0	< 9.0	0.71	125.2	0.02	< 1.0
27.07.2023	GA/23/1818	18.6	45,45	10.10	< 6.0	< 9.0	0.22	120.1	0.02	< 1,0
31.07.2023	GA/23/1829	25.6	53.37	11,68	< 6.0	< 9.0	0.77	127.7	0.02	< 1.0
NAAQS LI	MITS *		100	60	80	80	2	-	1	-
UNIT	8	µg/m ³	µg/m²	µg/m ³	pg/m ³	µg/m ³	mg/m ³	ppm	µg/m ²	ppm
метн	do	15 6182 (Part 4)	13 5162 (Part KXNI) 2105	USEPA FEM, 40 CFR Part NI, Appondia L, 2014-3016	15 5182 (Part II) 2001	(5.5182 (Pwt Vt) 2006	10.8182 (Piwt K) 1909	-OC Method	15 8182 Part XX85 2004	EFA Michost 18
	Sampling 03.07.2023 06.07.2023 10.07.2023 13.07.2023 17.07.2023 20.07.2023 24.07.2023 24.07.2023 24.07.2023 31.07.2023 NAAQS LI UNIT	Sampling Report No. 03.07.2023 GA/23/1711 06.07.2023 GA/23/1722 10.07.2023 GA/23/1727 13.07.2023 GA/23/1737 13.07.2023 GA/23/1760 17.07.2023 GA/23/1763 20.07.2023 GA/23/1796 24.07.2023 GA/23/1818	Sampling Report No. SPM 03.07.2023 GA/23/1711 36.0 06.07.2023 GA/23/1722 31.9 10.07.2023 GA/23/1722 31.9 10.07.2023 GA/23/1737 22.2 13.07.2023 GA/23/1760 20.2 17.07.2023 GA/23/1763 18.8 20.07.2023 GA/23/1783 18.8 20.07.2023 GA/23/1783 18.8 20.07.2023 GA/23/1783 18.8 21.07.2023 GA/23/1807 15.7 27.07.2023 GA/23/1818 18.6 31.07.2023 GA/23/1829 25.6 NAAQS LIMITS * UNITS µg/m³ 15.4182	Sampling Report No. SPM PMile 03.07.2023 GA/23/1711 36.0 38.45 06.07.2023 GA/23/1722 31.9 43.12 10.07.2023 GA/23/1727 31.9 43.12 10.07.2023 GA/23/1737 22.2 37.96 13.07.2023 GA/23/1760 20.2 40.86 17.07.2023 GA/23/1760 20.2 40.86 17.07.2023 GA/23/1760 18.8 36.12 20.07.2023 GA/23/1796 17.6 32.96 24.07.2023 GA/23/1807 15.7 36.54 27.07.2023 GA/23/1818 18.6 45.45 31.07.2023 GA/23/1818 18.6 45.45 31.07.2023 GA/23/1829 25.6 53.37 NAAQS LIMITS*	Sampling Report No. SPM PMile PMas 03.07.2023 GA/23/1711 36.0 38.45 12.10 06.07.2023 GA/23/1722 31.9 43.12 11.02 10.07.2023 GA/23/1722 31.9 43.12 11.02 10.07.2023 GA/23/1737 22.2 37.96 10.81 13.07.2023 GA/23/1760 20.2 40.86 7.65 17.07.2023 GA/23/1783 18.8 36.12 11.73 20.07.2023 GA/23/1786 17.6 32.96 6.45 24.07.2023 GA/23/1807 15.7 36.54 8.36 27.07.2023 GA/23/1818 18.6 45.45 10.10 31.07.2023 GA/23/1829 25.6 53.37 11.68 NAAQS LIMITS* 100 60 0 UNITS µg/m³ µg/m³ USEPA FEM. (#0.Crn Part ST.Agendia 05EPA FEM. (#0.Crn Part ST.Agendia 05EPA FEM. (#0.Crn Part ST.Agendia	Sampling Report No. SPM PMie PMass SOg 03.07.2023 GA/23/1711 36.0 38.45 12.10 < 6.0	Sampling Report No. SPM PMie PMies SOs NOx 03.07.2023 GA/23/1711 38.0 38.45 12.10 <6.0	Sampling Report No. SPM PMiss PMass SOs NOx CO 03.07.2023 GA/23/1711 38.0 38.45 12.10 <6.0	Sampling Report No. SPM PM ₁₀ PM ₈₃ SO ₈ NOx CO CO ₂ 03.07.2023 GA/23/1711 36.0 38.45 12.10 <6.0	Sampling Report No. SPM PM ₁₀ PM ₁₀ SO ₅ NOx CO CO ₂ Lead 03.07 2023 GA/23/1711 36.0 38.45 12.10 <6.0

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

Note:

1. The results relate only to the samples leated.

Test Report shall not be reproduced except in 5.8, without written approval of the fatoratory 3. Samples will be preserved for a period 15 days from the delivery of Test Report.
 Test Reputs relate only to the conditions prevailing at the time of sampling.

8. Cuelarner correlaint register is swallable at scheratory.

8. Calibration details of the equipment's used in manitoring and I or analytic David Eight of analysis report. For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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CHECKED BY

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

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 415 525. Tel. (02362) 223519 • E-mail : Info@gadark.in • Website : www.gadark.in

OFF. 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg. Viktroli (West), Mumbai - 83. Tet. (022) 2577 7069 / 2577 7070 / 2065 0091 + +91 93213 12367

TEST REPORT

			AMBI	ENT AIR QU	ALITY MO	NITORING I	REPORT							
Report	t Date		03/08/2023											
Name	of Client		M/s. GMR 0	OA INTERN	ATIONAL	AIRPORT L	IMITED							
Address of Client ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWAI NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							WADI RO	AD,						
Sampling Plan GLP			GLPL/QF/7.	3/06			Page No.			1 of 1				
Sampl	ie Collected By		GLPL Representative											
Month	of Sampling		July 2023	uly 2023										
				AMBIE	NT AIR LO	OCATION								
ati	on of Ambient	Air Station	Khajr	Khajne Amere Porscodem - Goa State (G-A5)										
Avera	ge Ambient Te	mperature (*C)	30.5			umidity (%)		92				
Averag	ge Wind Spee	d (km/hr)		60.3			And directi	302						
Latitud	de			N 15*40'38.0"				E 73446 21.2°						
Instrur	ment Used		1	PS (APM -	550)	RDS (APM - 460) GPS (APM - 4					451)			
Sr.	Date of	Provent Star				PARAMETERS								
No.	Sampling	Report No.	SPM	PMte	PMLS	SO1	NOx	co	COr	Lead	VOC			
1	03.07.2023	GA/23/1712	22.6	36.93	8.15	< 6.0	< 9.0	0.73	116.6	0.01	< 1,0			
	and the second sec	The strength in the second sec	Contract of the Contraction of the Contract	Company Contractor in Arrival	and the second se	the second s	Contracting of the Area and t	and the second se	and the second se	and the second se	and the second se			

	METHO	ac	15.5142 (Psrt 4)	65 5162 (Part XX80) 2006	USEPA FEM 40 CFR Part 50, Appendia- 1, 2014-2016	15 5182 (Pwt II) 2001	15 5182 (Past VI) 2006	15 5182 (Part X) 1000	GC Method	15 5182 (Part XX8) 2014	EPA Method 18
	UNITS		hð\w ₃	µg/m ³	pighu ₃	µg/m ³	µg/m ³	mg/m ²	ppm	pg/m ³	ppm
	NAAQS LIMITS *		1.00	100	60	80	80	2	-	1	-
9	31.07.2023 GA/23/1830		9.4	33.31	6.78	< 6.0	< 9.0	0.55	114.1	0.02	< 1.0
1	27.07.2023	GA/23/1819	11.8	40.34	7.82	< 6.0	< 9.0	0.35	124.2	0.05	< 1.0
7	24.07.2023	GA/23/1808	8.9	27.59	6.90	< 6.0	< 9.0	0.75	128.4	0.01	< 1.0
6	20.07.2023	GA/23/1797	10.8	29.97	8.90	< 6.0	< 9.0	0.54	115.9	0.05	< 1.0
5	17.07.2023	GA/23/1784	11.8	34.20	6.36	< 6.0	< 9.0	0.45	113.3	0.03	< 1.0
4	13.07.2023	GA/23/1761	15.0	35.82	8.44	< 6.0	< 9.0	0.80	140.8	0.03	< 1.0
3	10.07.2023	GA/23/1738	16.6	37.60	9.98	< 6.0	< 9.0	0.38	123.5	0.05	< 1.0
2	06.07.2023	GA/23/1723	19.6	31.55	8.77	< 8.0	< 9.0	0.54	126.1	0.04	< 1.0
_					the second s		and the second se				

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

Note 1

1. The results relate only to the samples lested.

2. Test Plapori shall not be reproduced except in R.R. without written approval of the taboratory

3. Samples wit be preserved hir a period 15 days from the delivery of Test Report.

4. Test Results relate only to the conditions prevailing at the time of sampling

5. Customer complaint register is dvaliable at laboratory

It Calibration details of the equipment's used in monitoring and / or analysis is tack side of analysis report. For GADARK LAB PVT. LTD.

Beconter

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. 919-DTA-2020	16/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 2841-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	16/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

			AMBI	ENT AIR QU	ALITY MO	NITORING I	REPORT						
Repor	t Date		03/08/2023										
Name	of Client		M/s. GMR G	OA INTERN	ATIONAL	AIRPORT L	IMITED						
Addre	ss of Client			ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.									
Samp	ling Plan		GLPL/QF/7:	3/06			Page No.			1 of 1			
Samp	le Collected By	r	GLPL Repre	sentative									
Month of Sampling Jul			July 2023				_						
-				AMBIE	INT AIR LO	CATION							
() pilj	on of Ambient	Air Station	Rajvil	Wada Tor	xem - Goa	state (G-/	A6)						
Avera	ge Ambient Te	mperature (*	C)	30.5		Average He	umidity (%	ð		91			
Avera	ge Wind Speel	d (km/hr)		61		Average W	ind directi	301					
Latitude				N 15*48'40.0*				E 73*52'50.2"					
Instrument Used			F	FPS (APM - 550) RDS (APM - 460)						GPS (APM - 411)			
Sr.	Date of	Report No.				PAR	AMETERS						
No.	Sampling	Heport No.	SPM	PMie	PMz.k	SO:	NOx	CO	COr	Lead	VOC		
1	03.07.2023	GA/23/171	5 23.2	53.33	14.97	< 6.0	< 9.0	0.85	138.9	0.005	< 1.0		
2	06.07.2023	GA/23/172	6 20.5	45.36	11.93	< 6.0	< 9.0	0.31	117.8	0.02	< 1.0		
3	10.07.2023	GA/23/174	1 18.7	41,27	9.81	< 6.0	< 9.0	0.52	105.8	0.02	< 1.0		
4	13.07.2023	GA/23/176	4 17.8	40.68	9.95	< 6.0	< 9.0	0.35	125.2	0.04	< 1.0		
5	17.07.2023	GA/23/178	7 15.2	34.86	9.19	< 8.0	< 9.0	0.59	127.2	0.03	< 1.0		
6	20.07 2023	GA/23/180	0 12.7	32.08	10.81	< 6.0	< 9.0	0.56	131.3	0.06	< 1.0		
7	24.07.2023	GA/23/181	1 10.6	37.60	9.07	< 6.0	< 9.0	0.49	131,8	0.03	<1.		
1	27.07.2023	GA/23/182	2 19.9	53.04	12.60	< 6.0	< 9.0	0.50	115.1	0.05	< 1.1		
	31.07.2023	GA/23/183	3 28.0	56.05	10.31	< 6.0	< 9.0	0.53	104.1	0.02	< 1.		
	NAAQS LI	MITS *	244	100	60	80	80	2	-	1			
	UNIT	S	pg/m ³	pg/m ³	pg/m ³	µg/m ³	hillyw ₃	mg/m ³	ppm	hðjuu ₃	ррл		
METHOD		15 5162 (Part 4)	25.5182 (Part XX80) 2000	USEPA FEM 40 CFR Part 30 Appendix 1, 2014-2018	(Pairt 8) 2001	(5.5182 (Part VI) 2006	15.5182 (Part X) 1999	GC Method	85.5182 (Pwt XX0) 2004	EPA Midu 18			

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note 1

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. Bamples will be preserved for a period 15 days from the dulivery of Test Report.

4. Test Results while only to the conditions prevailing at the time of sampling.

E. Customer complaint register is evaluable at laboratory

& Calibration details of the exponent's used in monthing and / or analysis a buck of analysis report.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 935-DTA-2015	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2023	15/05/2024
Gaseoue Sampler Sr. No. 262-D-22	16/05/2023	15/05/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg. Vikhroll (West), Mumbai - 83, Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 93213 12367

TEST REPORT

			AMBIE	INT AIR QU	ALITY MO	NITORING I	REPORT						
Repor	1 Date		03/08/2023										
Name	of Client		M/s. GMR G	OA INTERN	ATIONAL	AIRPORT L	IMITED						
Addre	ss of Client			ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.									
Samp	ling Plan		GLPL/QF/7	3/06			Page No.			1 of 1			
Samp	le Collected By	1	GLPL Repre	sentative									
Month	of Sampling		July 2023										
				AMBIE	INT AIR LO	CATION							
jati	on of Ambient	Air Station	Satar	da - Maha	rashtra Sta	ate (M-A1)							
Avera	ge Ambient Te	mperature (*	C)	30.5		Average Hi	umidity (%			89			
Avera	ge Wind Speer	d (km/hr)		53.5		Average W	ind direct		271				
Latitude				N 15*43'01.3*			Longitude			E 73*46 00.2*			
Instrument Used			F	PS (APM -	550)	RDS (APM - 460)			GPS	GPS (APM - 411)			
Sr.	Date of	Report No				PARA	METERS				_		
No,	Sampling	нерон но	SPM	PMm	PMIA	SOr	NOx	CO	CO2	Lead	VOC		
1	03.07.2023	GA/23/171	3 21,4	45.73	8.73	< 6.0	< 9.0	0.65	102.8	0.01	< 1.0		
2	06.07.2023	GA/23/172	4 18.7	36.45	9.36	< 6.0	< 9.0	0.33	109.4	0.002	< 1.0		
3	10.07.2023	GA/23/173	9 16.1	38.42	8.48	< 6.0	< 9.0	0.46	129.2	0.02	< 1.0		
4	13.07.2023	GA/23/176	2 13.7	44.60	9.31	< 6.0	< 9.0	0.54	125.0	0.04	< 1.0		
5	17 07 2023	GA/23/178	5 11.3	37.01	10.27	< 6.0	< 9.0	0.38	115 B	0.03	< 1.0		
6	20.07.2023	GA/23/179	8 9.4	32.07	7.94	< 6.0	< 9.0	0.75	134.2	0.05	< 1.0		
7	24.07.2023	GA/23/180	9 11.4	34.56	8.82	< 6.0	< 9.0	0.61	112.3	0.03	< 1.		
1	27.07.2023	GA/23/182	0 18.9	49.37	10.48	< 6.0	< 9.0	0.45	110.2	0.04	< 1.6		
	31.07.2023	GA/23/183	1 22.8	50.41	9.11	< 6.0	< 9.0	0.70	133.4	0.046	< 1.0		
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-		
	UNIT	5	µg/m ³	µg/m ³	hðiu ₂	µg/m ³	hibyur ₃	mg/m ³	ppm	$\mu g/m^2$	ppm		
	METHOD		(Part 4)	15.5182 (Part XX8) 2006	USEPA FEM 40 CFR Part 50, Appendia 1, 2514-2011	0Part 10 2001	45 5182 (Part Vi) 2006	15 5187 (Part X) 1908	OC Method	15.5182 (Purt XXII) 2004	EPA Matho 18		

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

Note 1

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2. Test Report shall not be reproduced except in hull, without written approval of the laboratory.

3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Petuts relate any to the conditions prevailing at the time of sampling

5. Gustamer complaint register is available at tabaratory

E Califoration details of the equipment's used in membring and / or analysis is back side of analysis report. For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

CHECKED BY

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

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB : H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525. Tel. : (92962) 223519 • E-mail : info@gadark in • Website : www.gadark.in

DFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Viktural (West), Mumbai - 83. Tel: (022) 2577 7009 / 2577 7070 / 2085 0091 + +01 90213 12367

TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT					
Report Date	late 03/08/2023							
Name of Client	M/s	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED						
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,				
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GLF	PL Representative						
Month of Sampling	July	July 2023						
~		AMBIENT AIR	LOCATION					
Lucation of Ambient Air Sta	tion	Dingane - Maharashtra	State (M-A2)					
Average Ambient Tempera	ture (*C)	30	Average Humidity (%)	89				
Average Wind Speed (km/h	1)	58.8	Average Wind direction (Deg)	322				
Latitude		N 15*46'12.3*	Longitude	E 73*49/20.5*				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of Sampling	The second second		PARAMETERS								
No.		Report No.	SPM	PMis	PMzs	801	NOx	CO	CO3	Lead	VOC	
1	03.07.2023	GA/23/1716	12.1	42.29	10.15	< 6.0	< 9.0	0.58	129.6	80.0	< 1.0	
2	06.07.2023	GA/23/1727	9.9	38.41	8.19	< 6.0	< 9.0	0.22	103.9	0.03	< 1.0	
3	10.07.2023	GA/23/1742	7.8	37.47	7.28	<8.0	< 9.0	0.29	111.0	0.01	< 1.0	
4	13.07.2023	GA/23/1765	8.5	31,90	9.48	< 6.0	< 9.0	0.36	122.2	0.03	< 1.0	
5	17.07.2023	GA/23/1788	6.3	27.50	7.78	<6.0	< 9.0	1.01	141.5	0.01	< 1.0	
6	20.07.2023	GA/23/1801	5.1	26.22	8.11	< 6.0	< 9.0	0.29	107.5	0.02	< 1.0	
7	24.07.2023	GA/23/1812	7,0	24.57	7.94	< 6.0	< 9.0	0,59	127.9	0.06	< 1.0	
1	27.07 2023	GA/23/1823	10.5	28.36	9.61	< 6.0	< 9.0	0.28	125.1	0.04	< 1.0	
9	31.07.2023	GA/23/1834	8.3	26.45	8.19	< 6.0	< 9.0	0.82	143.6	0.03	< 1.0	
	NAAQS LI	MITS *		100	60	80	80	2		. 1		
	UNIT	5	µg/m ³	µg/m ³	µg/m ³	µg/m ¹	ug/m ³	mg/m ³	ppm	pg/m ³	ppm	
METHOD		10.5182 (Part 4)	15 1142 (Part XXII) 2305	USERA FEM, 40 CFR Part 50, Appendia- L, 2014-2018	15 1182 (Part II) 2004	15 5182 (Part VI) 2006	85.5183 (Part X) 1859	OC Muthod	15.5187 (Pat XX0 2004	EPA Mithod 18		

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

Note 1

1. The results rolate only to the samples bested.

2. Test Report shall not be reproduced except in Ail, without written approval of the laboratory.

3 Samples will be preserved for a pende 15 days from the delivery of Test Report.

Test Results relate only to the conditions prevaiing at the time of sampling.
 Customer comptaint register is available at laboratory.

& Calibration details of the equipment's used in monitoring and / or analysis automatically of analysis report.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Siciale

CHECKED BY

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

LAB

KUDA

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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 • Wetnite: www.gadark.in

OFF: 15. Hindustan Kohinoor Industrial Complex, L.B.S. Marg. Vikhroli (West), Mambai - 53. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

			AMBIE	ENT AIR QU	ALITY MO	NITORING	REPORT					
Report Date 03			0.3/08/2023									
Name of Client M/s. GMR GOA INTERNATIONA					NATIONAL	AL AIRPORT LIMITED						
Address of Client ADMINISTRATIVE BLOCK, MOPA NAGZAR, TALUKA PERNEM, MO					PA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, MOPA, NORTH GOA 403512.					D,		
Samp	ling Plan		GLPL/QF/7	3/06			Page No.			1 of 1		
Samp	le Collected By	1	GLPL Repre	sentative								
Month	of Sampling		July 2023									
				AMBIE	INT AIR LO	CATION						
ati	on of Ambient	Air Station	Netar	de - Maha	rashtra Sta	ate (M-A3)						
Avera	ge Ambient Te	imperature (*	C)	30.5		Average H	umidity (%	6)		93		
Avera	ge Wind Spee	d (km/hr)		40.1			and direct	258				
Latitude				N 15*46'11.7"			Longitude			E 73*53'47.0"		
Instru	ment Used		6	PS (APM -	550)	RDS	(APM - A	460)	GPS	(APM - 4	111}	
Sr.	Date of	Course No.				PARAMETERS						
No.	Sampling	Report No.	SPM	PMvu	PM2x	5O1	NOR	co	COs	Lead	VOC	
1	03.07.2023	GA/23/171	4 9.5	33,08	11.89	< 6.0	<9.0	0.74	114.4	0.05	< 1/	
2	05.07.2023	GA/23/172	5 7.9	30.60	8.11	< 6.0	< 9.0	0.30	104.4	0.02	< 1.	
3	10.07.2023	GA/23/174	0 6.4	33.13	7.24	< 6.0	< 9.0	0.22	108.8	0.07	< 1.	
4	13.07.2023	GA/23/176	3 7.9	29.60	5.99	< 6.0	< 9.0	0.45	124.6	0.04	~ 1.1	
5	17.07.2023	GA/23/178	6 6.3	27.59	7.65	×6.0	< 9.0	0.89	136.2	0.03	<1/	
6	20.07.2023	GA/23/179	9 5.4	28.15	6.07	< 6.0	< 9.0	0.53	121.6	0.02	< 1.	
7	24.07.2023	GA/23/181	0 6.4	30.52	7.65	< 6.0	< 9.0	0.81	130.4	0.04	<1)	
)	27.07.2023	GA/23/182	1 11.5	30.05	8.24	< 6.0	< 9.0	0,56	120.2	0.04	< 1.)	
9	31.07.2023	GA/23/183	2 15.8	27.44	7.32	< 6.0	< 9.0	0,64	111.3	0.04	< 1.	
	NAAQS LI	MITS *	-	100	60	80	80	2		1	1	
	UNIT	5	pip/m ³	µg/m ³	vg/m ³	hð/w ₃	µg/m ³	mg/m ³	ppm	pg/m ²	ррп	
METHOD			15 5182 (Part 4)	(5.5162 (Part XX00)	USEPA FEM 40 CFR Pat	r5 6182 (Part II)	(5.5182 (Plant VI)	(5.5182 (Part X)	GC Method	15 5182 (Part	EPA Mother	

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note 1

1. The results rolate only to the samples leaded

Test Report shall not be reproduced except in full, without written approval of the laboratory. ż

3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4 Test Results relate only to the conditions prevailing at the time of sampling.

S. Customer comptaint register is available at laboratory

6. Calibration details of the explorment's used in monitoring, and i or analysis is back side of analysis report.

2006

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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LAB KUDA .

50. Appendia

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

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2004

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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. 942-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 477-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 470-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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CFF: 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

Name Addret Sampli Sampli Sampli Sampli Sampli 1 1 2 1 3 5 4 5 5 1 6 1 7 1 8 1 8 1 9 1 9 1 10 1 11 6	of Issue of Client ss of Client ing Plan le Collected Date of Sampling 11 07 2023 13 07 2023 12 07 2023 12 07 2023 13 07 2023 14 07 2023 15 07 2023 15 07 2023	By Bape GAZ GAZ GAZ GAZ GAZ	ADMI ROAT GLPL GLPL 91798 31756 51758 51758 51758 51758	GMR GO NISTRAT), NAGZ /QF/7 3/0 Represe	TIVE B AR, TA 6 Infative VT AIR Zone 1 I G R	NOISE PO Sampli Mopa Boyr Shemecha Magaar	and the second se	TIONA NOR cedure	L AIRS TH GO No. Time No In dB(A) Loss 90.7	A 4035	Mig St.0	/SOP//	A/17
Addret Sampli Sampli Sampli 1 1 2 1 3 5 4 5 5 1 6 1 7 1 8 1 9 1 9 1 10 1	55 of Client Ing Plan le Collected Date of Sempling 11 07 2023 13 07 2023 12 07 2023 12 07 2023 13 07 2023 13 07 2023 14 07 2023 14 07 2023 15 07 2023	By Bape GAZ GAZ GAZ GAZ GAZ GAZ GAZ	ADMI ROAT GLPL GLPL 91798 31756 51758 51758 51758 51758	NISTRAT NAGZ /QF/7 3/0 Represe AMBIEN Station 80 G-N1 G-N2 G-N3 G-N4 G-N5	TIVE B AR, TA 6 Infative VT AIR Zone 1 I G R	NOISE PO Sampli Mopa Boyr Shemecha Magaar	OPA INTERNA RNEM, MOPA Sampling Proc OLLUTION M Ing Location	NOR Dedure	L AIRS TH GO No. Time No In dB(A) Loss 90.7	A 4035	Mig St.0	/SOP//	Loise
Sampli Sampli Sampli Sampli 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Date of Sempling 11 07 2023 11 07 2023 06 07 2023 06 07 2023 12 07 2023 12 07 2023 12 07 2023 13 07 2023 14 07 2023 14 07 2023 15 07 2023	By Bape GAZ GAZ GAZ GAZ GAZ GAZ GAZ	ROAT GLPL GLPL 01755 31755 31755 31755 31755 31755 31755	0, NAG2 /QF/7 3/0 Represe AMBIE? Station 10 BAN BAN G-N2 G-N3 G-N4 G-N5	AR, TA 16 Infative VT AIR Zone I I C R	NOISE PO Sampli Mopa Bour Shomeche Maguar	RNEM, MOPA Sampling Proc DLLUTION M ng Location day	NOR cedure ONITOF Day	TH GO No Time No Time No In dB(A) Loss 90.7	A 4035	Mig St.0	/SOP//	Loise
Sample	Date of Sempling 11.07.2023 11.07.2023 13.07.2023 12.07.2023 14.07.2023 15.07.2023 15.07.2023 15.07.2023	Hape GAZ GAZ GAZ GAZ GAZ GAZ GAZ	GLPL MINA 3/1755 3/1756 3/1756 3/1758 3/1758 3/1758 3/1758	Represe AMBIEN Station (D) G-N1 G-N2 G-N3 G-N4 G-N5	I I G R	NOISE PO Bampli Mope Bour Shemache Nagaar	DLLUTION M ng Location day	DNITOS Day	RING Time No in dB(A) Loss 90.7	L.m. 59.3	Nig L	nt Time I In dB(A Loss 74,7	toise Les
Sample	Date of Sempling 11.07.2023 11.07.2023 13.07.2023 12.07.2023 14.07.2023 15.07.2023 15.07.2023 15.07.2023	Hape GAZ GAZ GAZ GAZ GAZ GAZ GAZ	urt No. 3/1756 3/1756 3/1758 3/1758 3/1758 3/1758 3/1757	AMBIEN Station ID G-N1 G-N2 G-N3 G-N4 G-N5	Zane I I G R	NOISE PO Bampli Mope Bour Shemache Nagaar	DLLUTION M ng Location day	DNITOS Day	RING Time No in dB(A) Loss 90.7	L.m. 59.3	L	In dB(A Loss 74.7	Les
Sr. 10 1 1 2 1 3 5 4 5 5 1 6 1 7 1 8 1 9 1 10 1 11 6	Date of Sempling 11.07.2023 13.07.2023 06.07.2023 06.07.2023 12.07.2023 14.07.2023 12.07.2023 13.07.2023 14.07.2023 14.07.2023	Hape GAZ GAZ GAZ GAZ GAZ GAZ GAZ	urt No. 3/1756 3/1756 3/1758 3/1758 3/1758 3/1758 3/1757	AMBIEN Station ID G-N1 G-N2 G-N3 G-N4 G-N5	Zane I I G R	NOISE PO Sampli Mopa Bour Shemacha Nagaar	ng Localiun dory	Day Less 34.5	Time N In dB(A) Loss 90.7	L.m. 59.3	L	In dB(A Loss 74.7	Les
No. 1 1 1 2 1 3 6 4 0 5 1 6 1 7 1 8 1 19 1 10 1	Sempling 11 07 2023 11 07 2023 10 07 2023 10 07 2023 12 07 2023 14 07 2023 15 07 2023 15 07 2023 15 07 2023	GA/2 GA/2 GA/2 GA/2 GA/2 GA/2 GA/2	3/1756 3/1756 3/1734 3/1738 3/1758 3/1758 3/1758	Station 8D G-N1 G-N2 G-N2 G-N4 G-N4 G-N5	Zone I I G R	Sampli Mopa Bour Sheenacha Nagzar	ng Localiun dory	Day Less 34.5	Time N In dB(A) Loss 90.7	L.m. 59.3	L	In dB(A Loss 74.7	Les
No. 1 1 1 2 1 3 6 4 0 5 1 6 1 7 1 8 1 19 1 10 1	Sempling 11 07 2023 11 07 2023 10 07 2023 10 07 2023 12 07 2023 14 07 2023 15 07 2023 15 07 2023 15 07 2023	GA/2 GA/2 GA/2 GA/2 GA/2 GA/2 GA/2	3/1756 3/1756 3/1734 3/1738 3/1758 3/1758 3/1758	4D G-N1 G-N2 G-N4 G-N4 G-N5	1 1 6 8	Mopa Bour Shemache Nagzar	idary	1.00 34.5	In dB(A)	L.m. 59.3	L	In dB(A Loss 74.7	Les
1 1 2 1 3 6 5 1 6 1 7 1 8 1 9 1 9 1 10 1	11 07 2023 11 07 2023 16 07 2023 18 07 2023 19 07 2023 12 07 2023 12 07 2023 12 07 2023 15 07 2023 15 07 2023 15 07 2023	GA/2 GA/2 GA/2 GA/2 GA/2 GA/2	3/1756 3/1734 3/1735 3/1758 3/1758 3/1758	G-N1 G-N2 G-N0 G-N4 G-N5	G R	Sheenacha Nagzar	and the second se	34.8	90.7	69.3	35.0	74.7	
2 1 3 6 4 6 5 1 6 1 7 1 8 1 8 1 10 1 11 6	11 67 2023 06 07 2023 12 07 2023 12 07 2023 14 07 2023 15 07 2023 15 07 2023 15 07 2023	GA/2 GA/2 GA/2 GA/2 GA/2 GA/2	3/1756 3/1734 3/1735 3/1758 3/1758 3/1758	G-N2 G-N3 G-N4 G-N5	G R	Sheenacha Nagzar	and the second se	and the second second	ومرديعة وتوتعاته	a construction of the second second	and the second	and a state of the second	49.3
3 6 4 6 5 1 6 1 7 1 8 1 8 1 8 1 10 1	06 07 2023 06 07 2023 12 07 2023 14 07 2023 12 07 2023 15 07 2023 14 07 2023 15 07 2023	GA/2 GA/2 GA/2 GA/2 GA/2	3/1734 3/1735 3/1758 3/1758 3/1758	G-N0 G-N4 G-N5	G R	Nagzar	advari	30.0	1000		and the second		
4 0 5 1 6 1 7 1 8 1 8 1 8 1 10 1 11 0	08.07.2023 12.07.2023 14.07.2023 12.07.2023 12.07.2023 15.07.2023 14.07.2023	GA/2 GA/2 GA/2 GA/2 GA/2	3/1735 3/1758 3/1758 3/1758	G-N4 G-N5	8	and a second second second	a star the last of	30.9	703.4	60.8	30.8	83.8	-49.3
5 1 6 1 7 1 8 1 5 1 10 1 11 0	12 07 2023 14 07 2023 12 07 2023 15 07 2023 14 07 2023 14 07 2023	GA/2 GA/7 GA/7 GA/7	3/1758 3/1768 3/1757	G-N5		Charles and the second		32.8	81.3	49.5	30.5	72.1	46.7
6 1 7 1 8 1 9 1 10 1 11 6	14,07,2023 12,07,2023 15,07,2023 14,07,2023 15,07,2023	GA7 GA7 GA7	3/1768 3/1757	and the lot of the second		Contraction of the second	arvarrenti	30.2	83.4	\$3.8	30.6	68.3	43.1
7 1 8 1 5 1 10 1 11 6	12 07 2023 15 07 2023 14 07 2023 15 07 2023	GA/Z	3/1757	-0-N0	8	Chandel		30.3	79.9	49.5	30.1	64.8	29.
8 1 5 1 10 1 11 6	15.07.2023 14.07.2023 15.07.2023	GA/2		10. 10.000	8	and the second state of a party	ere Perscodem	31.6	70.5	.52.1	30,5	\$7.3	42.4
5 1 10 1 11 0	14.07.2023 15.07.2023	And the owner water to be		G-N7	8	Washhand	-	35.4	0.09	51.8	31.1	59.0	42.1
10 1	15 07,2023	GAZ	and service and address of	G-N8	0	Plajvil Wad	and the second se	30.2	106.4	38.8	30.2	80.2	48.1
11 6	and the local distribution of the local distribution of the local distribution of the local distribution of the		3/17/19	G-N9	C	VRage Panchayant Tamboran - Mapa - Upran		30.5	\$3.9	52.4	30.8	71.9	48.1
	the second s	GA/Z	3/1775	M-N1	R	Sistenta		30.4	70.8	\$2.8	30.5	68.3	45.3
	07.07.2023	GN2	3/1730	M-N2	帛	Dirigane		36.3	82.1	53.7	30.3	61.9	42.3
12 0	07.07.2023	GA/2	3/1731	M-NO	故	Netlande	merel and a second	30.5	79.6	62.0	30.3	55.3	#2.1
1 Noi	ise Limits as	per Sc	a sector s		and the subsection of the	of the second state of the design of the	rcial Zone, R on) Rules, 1966	a manufacture states	and a state of the	2.10110	_		
1		T	1	and allo		- and and	Limits	In dB(A) Leg				
	Ares Code	2		Category	ot Area	Day Time			Night Time				
	(A)		Indust	bial Area (m	1.1	75	70		-			
	(8)		Comm	neittal Are	a (C)	_	65		55				
	(C)		Resid	ontial Area	190	100	55	45					
_	(D)		and the second second	e Zone (5	And the American State of the Owner, which		60		.40				
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	in dB(A) Li taraclamitina				weight	ng in the me	asurement of no	ise and o	orrespor	ids to fre	ioneuch	response	
ST Le	eq : It is the e	CHUICHY !	mean of	the noise	ioval ove	r a specified	period.			-			
Tent R Tent R Counter Califor	besuits relate or ever complaint	AB F	induced i is condi- its availar opened to PVT. L	except in full one prevaille ble at tebora used in mor	ig at the s tory	me of sampler	to back and if an	ajiyasa mata	н.	k	SKED	BY	

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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

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



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB : H-54, Additional M LD.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525 Tel.: (02362) 223519 • E-mail : info@ggadark.in • Website : www.gadark.in

OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83. Tel.: (022) 2577 7065 / 2577 7070 / 2065 0091 + +91 93213 12367

TEST REPORT

	ANALYSIS	REPORT FO	R WATER SAMPLE				
Report No.	GW/23/1183	GW/23/1183 Report D			20/07/	2023	
Client Name & Address	GMR Goa Internation Administrative Bloc Taluka Pernem, Mo	k, Mopa Interr	national Airport, Dadac	hiwadi	Road, N	łagzar,	
Order / Reference	As Per Dated 15/07/2023	Environmental Condition of Lab		Temp #C 24.0		Humidity % 50	
Sampling Plan	GLPL/QF/7.3/06	Sampling I	Procedure No.	APH	APHA 1060		
Sampling Point	WTP RO		and a second			-	
Sampling Details	WTP RO Inlet Wate	x Sample	Date of Collection	15/07/2023		2023	
Sample Collected by	GLPL Representati	GLPL Representative Sample Received On				/2023	
Analysis Started On	15/07/2023	15/07/2023 Analysis Completed				2023	
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity		4前+	1.25 紘	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	6.49	e /	6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	10-00	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	4.06	mg/lit.	200.00	APHA 2320 B
7	Total Dissolved Solid	13	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	3,03	mg/lit	250,00	APHA 4500 CI-B
9	Sulphate as SO#	0.25	mg/lit	200.00	APHA 4500 SO -2 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S ¹ F
11	Total Hardness as CaCO ₂	6	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.058	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]



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Page 1 of 3



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Takuka - 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

Report No.	GW/23/1183	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Goa International Airpor Administrative Block, Mopa In Taluka Pernem, Mopa, North	ternational Airport, Dadachiw	adi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit.	0.20	APHA 4500 CI B
15	Nitrate as NOs	< 0.01	mg/lit	45.00	APHA 4500 NO2 B
16	Fluoride as F	< 0.001	rng/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-8,C
18	Cyanide	< 0.001	mg/fit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/tit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit.	0.50	APHA 4500 B - B
23	Calcium as Ca	1.60	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.049	mg/lit.	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	0.49	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	5ihgm	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.053	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	0.61	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1183	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37 ⁶ C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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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.

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				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Melar	GL/EQ/pH/01		In house	Calibration
02	Turbidity Moter	GL/EQ/Turb/01		In house	Calibration
03	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/08/2023	28/06/2024
64	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/06/2023	28/06/2024
05.	U V Spectrophotometer	GL/EQ/UV/01	AA5/GLPL/C/22 23/982	15/10/2022	14/10/2023
06.	ICP - OES	GL/EQ/ICP/01	*	In house Calibration	
07	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AVI/2207006	29/06/2023	28/06/2024
80	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016 29/06/2023		28/06/2024
09	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/07/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	26/06/2024



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TEST REPORT

	ANALYSIS	REPORT FOR WAT	ER SAMPLE			
Report No.	GW/23/1187		Report Date	2	0/07/2023	
Client Name & Address	Administrative Block	onal Airport Limited, k, Mopa International ipa, North Goa - 403		hiwadi Ro	ed, Nagzar,	
Order / Reference	As Per Dated	Environmental Co	Temp ^o	C Humidity %		
Under / Helerende	15/07/2023	Environmental Condition of Lab		24.0	50	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedu	are No.	APHA 1060		
Sampling Point	International Depart	ture Water Fountain I	L2			
Sampling Details	International Depart L2 Water Sample	Date of Collection		15/07/2023		
Sample Collected by	GLPL Representation	Sample Received On		15/07/2023		
Analysis Started On	15/07/2023	Analysis Completed On		20/07/2023		
Sample Container	Plastic Carboy + Gl	Sample Quantity		4 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.30		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	-	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 8
6	Total Alkalinity	14:19	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	39	mg/lit.	500.00	APHA 2540 C
8	Chlorides as Cl	10.10	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO4	1.50	mg/lit.	200.00	APHA 4500 SOr2 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SF
11	Total Hardness as CaCO ₂	24	mgilit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH1
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1187	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	NR	tiñgm	0.20	APHA 4500 CI B
15	Nitrate as NOs	< 0.01	mg/lit	45.00	APHA 4500 NOs B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/sit	0.001	APHA 5530-B.C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	rng/lit	0.03	APHA 3120 8
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	6.41	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit.	0 003	APHA 3120 B
25	Iron as Fe	< 0.049	ing/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 8
27	Magnesium as Mg	1.95	rng/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.015	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	2.0	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mgilit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1187	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37 ⁶ C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E Coli at 44.5°C for 24 firs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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Note:

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2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

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

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Sr. No.				Calibration Details		
	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	-	In house	Calibration	
02	Turbidity Meter	GL/EQ/Turb/01	-	In house	Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AV1/2207023	29/06/2023	28/06/2024	
04.	Hot Air Oven	GL/EG/0/01	AVI/2207012	29/06/2023	28/06/2024	
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023	
08	ICP-OES	GL/EQ/ICP/01	+	In house Calibration		
07	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AV1/2207006	29/06/2023	28/06/2024	
68.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	29/05/2023	28/06/2024	
09	Laminar Air Flow	GULF/01	TECH/VAL/20 23/02/89	15/07/2023	15/02/2024	
10	Autoclawe	GL/EQ/A/01	AV1/2207004	29/96/2023	28/06/2024	
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024	



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TEST REPORT

	ANALYSIS RE	EPORT FOR WAT	ER SAMPLE			
Report No.	GW/23/1186		Report Date	20/	07/202	3
Client Name & Address	GMR Goa Internation Administrative Block, Taluka Pernem, Mopa	Mopa Internationa		di Road	i, Nagi	zar,
Order / Reference	As Per Dated	Environment	Terr	np nC	Humidity %	
When I rentrance	15/07/2023	Environmental Condition of Lab			4,0	50
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	ocedure No	APHA 1060		
Sampling Point	International Arrival V	later Fountain L1				
Sampling Details	International Arrival W Sample	later Fountain L1	Date of Collection		15/07/2023	
Sample Collected by	GLPL Representative		Sample Received On		15/07/2023	
Analysis Started On	15/07/2023	Analysis Completed On 2		20/0	20/07/2023	
Sample Container	Plastic Carboy + Glas	s Bottle	Sample Quantity		411.	1.25 81

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.22	-	6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	10.14	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	35	tiligen	500.00	APHA 2540 C
8	Chlorides as Cl	9.09	mg/lit	250.00	APHA 4500 CI~B
9	Sulphate as SO4	1.25	mg/lit	200.00	APHA 4500 SO# E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S*F
11	Total Hardness as CeCO ₂	20	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B
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For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1186	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Gos International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	< 0.01	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B.C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN ⁻ D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - 8
23	Calcium as Ca	5.61	siligm	75.00	APHA 3500 Ca 8
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.049	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	1.46	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	ing/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.051	filigm	5.00	APHA 3111 B
31	Sodium as Na	2.2	mgAit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	ting/lit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1186	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Col/form at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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			1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	Calibratio	on Details
Sr. No.	Equipment Name	Equipment Name Equipment Id Certificate No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In house	Calibration
02	Turbidity Meter	GL/EQ/Turb/01		In house	Calibration
03.	Analytical Balance	GL/EC/BAL/03	AVI/2207023	29/08/2023	28/06/2024
04	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06	KCP - OES	GL/EQ/ICP/01	+	In house Calibration	
07	Microbiological Incubator (37 ⁸ C)	GL/EQ/I-01	AVI/2207006	29/05/2023	28/06/2024
08	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	29/06/2023	28/05/2024
09	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/07/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AV1/2207017	29/06/2023	28/06/2024





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TEST REPORT

	ANALYSIS	REPORT FOR	WATER SAMPLE			
Report No.	GW/23/1185		Report Date		20/07/2023	
Client Name & Address	GMR Goa Internation Administrative Bloc Taluka Pernem, Mo	k, Mopa Interna	tional Airport, Dadac	hiwadi F	Road, N	lagzar,
Order / Reference	As Per Dated 15/07/2023	Environmental Condition of Lab		Tem 24	Carlot State of Long State	Humidity % 50
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	ocedure No.	APHA 1060		
Sampling Point	Admin Building Gro	und Floor				
Sampling Details	Admin Building Wa	ter Fountain	Date of Collection	8	15/07/2023	
Sample Collected by	GLPL Representative		Sample Received On		15/07/2023	
Analysis Started On	15/07/2023		Analysis Completed On		20/07/2023	
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.11	-	6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	18.25	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	60	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	10.10	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SQs	4.50	mg/lit	200.00	APHA 4500 SO/2 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SFF
11	Total Hardness as CaCO ₃	38	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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CIFF: 15, Himbustan Kotimoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83, Tel.: (022) 2577 7068 / 2577 7070 / 2085 0091 + 91 93215 12367

TEST REPORT

Report No.	GW/23/1185	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nii	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NOs	< 0.01	img/lit	45.00	APHA 4500 NOs B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530 - B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/tit	0.2	APHA 6540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	9.62	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	0.082	rng/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	3.41	mgAit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.036	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	3.6	mg/lit.	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit.	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1185	Report Date	20/07/2023
Order / Reference	As Per Dated 15/07/2023	Sample Received on	15/07/2023
Analysis Started On	15/07/2023	Analysis Completed On	20/07/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Microbiological Parameters;

Sr. No,	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37 ⁶ C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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	Equipment Name			Calibratio	on Details	
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01	pH Metor	GL/EQ/pH/01	-	In house Calibration		
02.	Turbidity Meter	GL/EQ/Turb/01	-	In house Calibration		
03	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/06/2024	
04.	Hot Air Oven	GL/EQ/0/01	AV1/2207012	29/06/2023	28/06/2024	
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/062	15/10/2022	14/10/2023	
06.	ICP-OES	GL/EQ/ICP/01	*	In house	Calibration	
07	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AV1/2207006	29/06/2023	28/06/2024	
68.	Microbiological Incubator (44.5 ⁹ C)	GL/EQ/I-03	AVI/2207016	29/06/2023	28/05/2024	
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/07/2023	16/02/2024	
10	Autoclave	GL/EQ/A/01	AV1/2207004	29/06/2023	28/06/2024	
11.	Water Bath	GL/EQ/WB/01	AV1/2207017	29/06/2023	28/06/2024	



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TEST REPORT

	ANALYSIS REPORT	FOR WA	TER SAMPLE			
Report No.	GW/23/1184		Report Date		20/07/	2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	i Internatio	nal Airport, Dadachi	wadi R	Road, N	lagzar,
Order / Reference	As Per Dated 15/07/2023	Environmental Condition of Lab		ition of Temp % 28.2		Humidity % 97
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		0
Sampling Point	STP Inlet					
Sampling Details	STP Inlet Water Sample	1	Date of Collection		15/07/2023	
Sample Collected by	GLPL Representative	4	Sample Received Or		On 15/07/202	
Analysis Started On	15/07/2023	1	Analysis Completed (On 20/07/2023	
Sample Container	Plastic Carboy + Glass Bot	tie 1	Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7,08		APHA 4500 H*
2	Chemical Oxygen Demand (COD)	1007	mg/lit	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	333	mg/lit	IS 3025 (Part 44), 1993
4	Total Suspended Solids (TSS)	68	mg/lit.	APHA 2540 D
5	Oil & Grease (O & G)	5	mg/lit	APHA 5520 B
6	Ammonia	60.85	mg/lit	APHA 4500 NHi B&C
7	Total Nitrogen (as N)	82.69	mg/lit	APHA 4500-Norg

Microbiological Parameters:

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

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Sr.	Equipment Name	Equipment Id	Certificate	Calibration Details		
No.			No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house Calibration		
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04	800 Incubator	GL/EQ///02	AVI/2207014	29/06/2023	28/06/2024	
05	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207005	29/06/2023	28/06/2024	
06	Microbiological Incubator (44.5 ° C)	GUEQ4-03	AVU2207016	29/06/2023	28/06/2024	
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024	
08	Autoclave	GL/EQ/A/01	AV1/2207004	29/06/2023	28/06/2024	



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE			
Report No.	GW/23/1189		Report Date		20/07/	2023
Client Name & Address	GMR Goa Internati Administrative Bloc Taluka Pernem, Mo	k, Mopa Intern	national Airport, Dada	schiwadi	Road, N	lagzar,
Order / Reference	As Per Dated 15/07/2023	Environmental Condition of Lab			np °C 8.2	Humidity % 97
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APH	IA 1060	í.
Sampling Point	STP Outlet					
Sampling Details	STP Outlet Water 5	lample	Date of Collection	n	15/07/	2023
Sample Collected by	GLPL Representati	ve	Sample Received	t On	15/07/	/2023
Analysis Started On	15/07/2023		Analysis Completed O		d On 20/07/2023	
Sample Container	Plastic Carboy + G	ass Bottle	Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.71	-	5.5-9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	36	mg/lit	50,00	APHA 5220 B
3	Biochemical Oxygen Demand (27 ^s C day) (BOD)	8	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	15	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.03	ing/lit	5.00	APHA 4500 NHs B&C
7	Total Nitrogen (as N)	7.95	mgAit	10.00	APHA 4500-Norg

Microbiological Parameters:

8 Fecal Coliform at 44.5°C for 84 Index/100ml	100	APHA 9221 E
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Sr.	Equipment Name		Certificate	Calibration Details		
No.		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hour	e Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/05/2023	28/06/2024	
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207005	29/06/2023	28/06/2024	
06	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	29/06/2023	28/06/2024	
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024	
08	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW(23/1119		Report Date		1/07/	2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Tatuka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi Ro	iad, N	agzar,
Order / Reference	As Per Dated 06/07/2023	Environmental Condition of Lab		tition of Temp 28.0		Humidity % 88
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1080		0
Sampling Point	OWS Inlet Storm Water Sa	mple				
Sampling Details	OWS Inlet	D	Date of Collection		06/07/2023	
Sample Collected by	GLPL Representative	S	Sample Received Or		On 06/07/2023	
Analysis Started On	05/07/2023	A	Analysis Completed C		On 11/07/2023	
Sample Container	Plastic Carboy + Glass Bot	tie S	Sample Quantity		5 lit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Sampling & Analysis Method
1	pH	7.25		APHA 4500 H*
2	Turbidity	31.9	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	25	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	35	mgñit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180%	32	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.107	mg/tit	APHA 3111 B
9	Iron (Fe)	0.068	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/tit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

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				Calibration Details		
Sr. No.	Enumerate Name Enumerate In Contineate No		Calibration Date	Next Calibration Due Date		
01.	pH Meter	GL/EQ/pH/01		In house Calibration		
02.	Hot Air Overi	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ//02	AVI/2207014	29/06/2023	28/06/2024	
05	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
06	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C/2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1120		Report Date	11/0	7/2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi Road,	Nagzar,	
Order / Reference	As Per Dated 06/07/2023	Environmental Condition of Lab		Temp *C 28.0	Humidity % 88	
Sampling Plan	GLPL/QF/7.3/05	Sampling	Procedure No.	APHA 1060		
Sampling Point	OWS Outlet Storm Water S	Sample				
Sampling Details	OWS Outlet	D	ate of Collection	06/07/2023		
Sample Collected by	GLPL Representative	GLPL Representative Sample Received		1 06/0	7/2023	
Analysis Started On	06/07/2023 Analysis Completed O		On 11/0	7/2023		
Sample Container	Plastic Carboy + Glass Bot	tle. S	ample Quantity	51it -	1.62	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Sampling & Analysis Method
1	pH	7.89		APHA 4500 H*
2	Turbidity	(14.4)	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	17	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27%C day) (BOD)	6	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	10	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	30	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.067	mg/lit	APHA 3111 B
9	Iron (Fe)	0.116	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

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-				Calibration Details		
Sr. No.	Fruitement Name Fruitement Id Continate No		Calibration Date	Next Calibration Due Date		
01	pH Meter	GL/EQ/pH/01		In house Calibration		
02	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/05/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
05.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C/2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1121		Report Date		1/07/	2023
Client Name & Address	GMR Gos International Air Administrative Block, Mopa Taluka Pemern, Mopa, Nor	Internation	al Airport, Dadachi	wadi Ros	id, N	lagzar,
Order / Reference	As Per Dated 06/07/2023	Environmental Condition of		Temp	°C	Humidity %
Chock / Helenence	Paren Galeo Gorginzoza	Lab		28.0		88
Sampling Plan	GLPL/QF/7.3/06	Sampling	Procedure No.	APHA 1060		
Sampling Point	Air Side Outfall 2 Storm Wa	ater Sample				
Sampling Details	Air Side Outfall 2	D	ate of Collection	06/07/2023		2023
Sample Collected by	GLPL Representative	S	ample Received Or	n. 06	1077	2023
Analysis Started On	06/07/2023 Analysis Completed O		On 11/07/2023		2023	
Sample Container	Plastic Carboy + Glass Bot	tle Sa	ample Quantity	5	5 lit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	6.97		APHA 4500 H*
2	Turbidity	57.5	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	42	mg/lit.	APHA 5220 B
4	Biochemical Oxygen Demand (27 ^c C day) (800)	10	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	52	mg/lit.	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit.	APHA 5520 B
7	Total Dissolved Solids 180ºC	20	mg/lit.	APHA 2540 C
8	Manganese (Mn)	0.063	mg/lit	APHA 3111 B
9	Iron (Fe)	0.088	mgñit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BOL*	mg/lit.	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

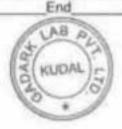
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Sr.		lun al	Certificate	Calibration Details		
No.	Equipment Name Equipment Id No.		Calibration Date	Next Calibration Due Date		
01.	pH Meter	GL/EQ/pH/01	-	in hour	e Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD incubator	GL/EQ//02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
05	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1122		Report Date		11/07/	2023
Client Name & Address	GMR Goa International Am Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadache	wadi I	Road, N	lagzar,
Order / Reference	As Per Dated 06/07/2023	Environmental Condition of Lab			mp ⁿ C	Humidity % 88
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	LS 3 Storm Water Sample					
Sampling Details	Storm Water LS 3	D	ate of Collection	06/07/2023		2023
Sample Collected by	GLPL Representative	GLPL Representative Sample Receive		Sample Received On 06/0		2023
Analysis Started On	06/07/2023 Analysis Completed C		d On 11/07/2023		2023	
Sample Container	Plastic Carboy + Glass Bot	tle S	ample Quantity		5 fit.+	\$ Mt

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.81		APHA 4500 H*
2	Turbidity	75.3	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	33	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	-11	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	23	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 8
7	Total Dissolved Solids 180°C	53	titgm	APHA 2540 C
8	Manganese (Mn)	0.048	mg/lit	APHA 3111 B
9	Iron (Fe)	0.099	mg/lit	APHA 3111 B

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Note:

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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.

Sr.		sars-sar	Certificate	Calibration D	
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01,	pH Meter	GL/EQ/pH/01		In house Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024
05	Nephelometer	GL/EQ/Turb/01		Inhouse	Inhouse
06.	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Inhouse



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Tatuka - Kudal, District - Sindhudurg - 416 525. Tet.: (02362) 223519 + E-mail : into@gadark.in + Website : www.gadark.in

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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE		
Report No.	GW/23/1123		Report Date	11/	07/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	hal Airport, Dadachi	wadi Road	l, Nagzar,
Order / Reference	As Per Dated 06/07/2023	Environmental Condition of Lab		Temp a	C Humidity % 88
Sampling Plan	GLPL/QF/7 3/06	Sampling	Procedure No.	APHA 1060	
Sampling Point	LS 4 A Storm Water Samp	ie .			
Sampling Details	Storm Water LS 4 A	0	ate of Collection	06/07/2023	
Sample Collected by	GLPL Representative	GLPL Representative Sample Receive		Sample Received On 06/07	
Analysis Started On	06/07/2023 Analysis Completed Or		On 11/	07/2023	
Sample Container	Plastic Carboy + Glass Bot	tie S	iample Quantity	5 lit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.65		APHA 4500 H*
2	Turbidity	77.3	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	50	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27ºC day) (BOD)	15	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	44	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	35	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.029	ing/lit	APHA 3111 8
9	Iron (Fe)	0.188	mg/lit	APHA 3111 B

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For GADARK LAB PVT. LTD.

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

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/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COO Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ///02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephalometor	GL/EQ/Turb/D1	-	Inhouse	Inhouse	
06.	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WA	TER SAMPLE				
Report No.	GW/23/1124		Report Date	11/0	7/2023		
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 06/07/2023	Environmental Condition of Lab		Temp %	C Humidity % 88		
Sampling Plan	GLPU/QF/7 3/05	Sampling Procedure No.		APHA 1060			
Sampling Point	Air Side Outfall - 3 Storm Water Sample						
Sampling Details	Air Side Outfall - 3		Date of Collection		06/07/2023		
Sample Collected by	GLPL Representative		Sample Received On		06/07/2023		
Analysis Started On	06/07/2023		Analysis Completed On		11/07/2023		
Sample Container Plastic Carboy + Glass Bottle		tie 1	Sample Quantity		5.lit + 1.lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.64	1.41	APHA 4500 H*
2	Turbidity	85.4	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	8	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BCD)	3	mg/lit	1S 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	57	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit.	APHA 5520 8
7	Total Dissolved Solids 180 ⁴ C	22	mg/lit	APHA 2540 C
ā	Manganese (Mn)	0.064	mg/lit	APHA 3111 B
9	Iron (Fe)	0.064	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BOL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

For GADARK LAB PVT. LTD.

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Sr.		and an and a state	Certificate	Calibra	ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Moter	GI,/EQ/pH/01		In house Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
03	COD Digestor	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
D4,	BOD Incubator	GL/EQ//02	AVI/2207014	29/06/2023	28/06/2024
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse
05	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPUC /2223/083	17/01/2023	16/01/2024
07	AAS (GBC)	GL/EQ/AAS/01	-	inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1125	GW/23/1125		11/0	7/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
HARD THE REAL PROPERTY OF	Environme		ental Condition of	Temp C	Humidity %	
Order / Reference	As Per Dated 06/07/2023	Lab		28.0	88	
Sampling Plan	GLPL/QF/7.3/06	Sampling	Procedure No.	APHA 1060		
Sampling Point	LS - I Storm Water Sample					
Sampling Details	Storm Water LS - I	D	ate of Collection	06/07/2023		
Sample Collected by	GLPL Representative	GLPL Representative Sample Received On		n 06/0	7/2023	
Analysis Started On	05/07/2023 Analysis Completed Or		On 11/0	7/2023		
Sample Container	Plastic Carboy + Glass Bot	tle S	ample Quantity	5 6t + 1 ht		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.01		APHA 4500 H*
2	Turbidity	92.9	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	133	mg/lit.	APHA 5220 B
4	Biochemical Oxygen Demand (27 ⁰ C day) (BOD)	40	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	187	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	42	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.056	mg/lit	APHA 3111 B
9	Iron (Fe)	< 0.049	mg/lit	APHA 3111 B

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For GADARK LAB PVT. LTD.

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			Concentration of the	Calibra	tion Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
D1.	pH Meter	GL/EQ/pH/01	-	In house Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/05/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
04	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024
05	Nephelometer	GL/EQ/Turb/01		Inhouse	Inhouse
06.	AAS (GBC)	GL/EQ/AAS/01	- <u></u>	Inhouse	Inhouse



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

TEST REPORT

	ANALYSIS REPORT	FORV	ATER SAMPLE			
Report No.	GW/23/1223	GW/23/1223		26/07/20		2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Interna	tional Airport, Dadach	iwad)	Road, N	lagzar,
Order / Reference	As Per Dated 21/07/2023	Environmental Condition of Lab		Temp %C 27.8		Humidity % 99
Sampling Plan	GLPU/QF/7.3/06	Samp	ling Procedure No.	APHA 1060		0
Sampling Point	OWS Inlet	-		-		
Sampling Details	OWS Inlet Storm Water Sa	mple	Date of Collection	21/07/2023		2023
Sample Collected by	GLPL Representative		Sample Received O	ample Received On 21/07/20		2023
Analysis Started On	21/07/2023 Analysis Completed Or		On	26/07/	2023	
Sample Container	Plastic Carboy + Glass Bot	the:	Sample Quantity		5 lit +	T lit

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.65		APHA 4500 H*
2	Turbidity	22.4	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	56	mg/lit	APHA 5220 8
4	Biochemical Oxygen Demand (27%C day) (BOD)	6	rog/l\t	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	18	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 8
7	Total Dissolved Solids 180°C	23	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.051	mg/lit	APHA 3111 B
9	Iron (Fe)	0.090	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

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For GADARK LAB PVT. LTD.

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

Sr.			Certificate	Calibra	ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	54	In house Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVV/2207012	29/06/2023	26/06/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
04	BOD Incubator	GL/EQ/I/02	AVI/2207014	29/06/2023	28/06/2024
05.	Nephelometer	GL/EQ/Turb/01		Inhouse	Inhouse
06.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FORW	ATER SAMPLE			
Report No.	GW/23/1224	GW/23/1224 Report Dv			26/07/2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internat	tional Airport, Dadachi	waidi I	Road, N	lagzar,
Order / Reference	As Per Dated 21/07/2023	Environmental Condition of Lab		Temp ⁰ C 27.6		Humidity % 99
Sampling Plan	GLPL/QF/7.3/06	Sampl	ing Procedure No.	APHA 1060		0
Sampling Point	OWS Outlet					
Sampling Details	OWS Outlet Storm Water S	Sample	Date of Collection		21/07/2023	
Sample Collected by	GLPL Representative	GLPL Representative Sample Received On		n	21/07/2023	
Analysis Started On	21/07/2023 Analysis Completed C			On	26/07/	2023
Sample Container	Plastic Carboy + Glass Bot	tie	Sample Quantity		5 18 + 1 18	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pН	8.04		APHA 4500 H*
2	Turbidity	17.2	NTU	APHA 2130 8
3	Chemical Oxygen Demand (COD)	8	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	< 2.0	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	12	mg/st	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	22	mg/lit	APHA 2540 C
0	Manganese (Mn)	0.037	rng/lit	APHA 3111 B
9	Iron (Fe)	0.061	mgñit	APHA 3111 8
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440
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BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l End

For GADARK LAB PVT. LTD.

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Sr.			Certificate	Calibra	stion Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Moter	GL/EQ/pH/01	GL/EQ/pH/91 -		se Galibration
02	Hot Air Oven	GL/EQ/0/01	AV#2207012	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
04.	BOD Incubator	GL/EQ/V02	AVI/2207014	29/06/2023	28/06/2024
05.	Nepheiometer	GL/EQ/Turb/01		Inhouse	Inhouse
06.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FOR WATE	R SAMPLE			
Report No.	GW/23/1225		Report Date	26/07/		2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International		wadi Roa	d, N	lagzar,
Order / Reference	As Per Dated 21/07/2023	Environmental Condition of Lab		Temp ºC 27.8		Humidity % 99
Sampling Plan	GLPL/QF/7.3/06	Sampling P	rocedure No.	APHA 1060		0
Sampling Point	Air Side Outfall 2			_		
Sampling Details	Air Side Outfall 2 Storm Wa	iter Sample	Date of Collection	2n	2	1/07/2023
Sample Collected by	GLPL Representative		Sample Receive	nd On	On 21/07/2023	
Analysis Started On	21/07/2023 Analysis Co		Analysis Comple	eted On	Dn 26/07/2023	
Sample Container	Plastic Carboy + Glass Bot	tie	Sample Quantity	1	5	键+1站

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.01		APHA 4500 H*
2	Turbidity	35.5	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	64	mg/lit.	APHA 5220 B
4	Biochemical Oxygen Demand (27ºC day) (800)	10	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	26	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 8
7	Total Dissolved Solids 180°C	34	mg/st	APHA 2540 C
8	Manganese (Mn)	0.042	mg/lit	APHA 3111 B
9	Iron (Fe)	0.083	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BOL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

Sr.			Certificate	Calibra	ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
81	pH Meter	GL/EQ/pH/01		In house Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
63.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	25/06/2024
04	BOD incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024
05	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse
06.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE		
Report No:	GW/23/1226		Report Date	26	/07/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi Roa	d, Nagzar,
Order / Reference	As Per Dated 21/07/2023	Environmental Condition of Lab		Temp 27.8	special contracts in the last state of the local data
Sampling Plan	GLPL/QF/7.3/06	Sampling	Procedure No.	APHA 1060	
Sampling Point	Storm Water LS 3	A	Charles and the second second second		
Sampling Details	LS 3 Storm Water Sample	D	ate of Collection	21/07/2023	
Sample Collected by	GLPL Representative	GLPL Representative Sa		On 21/07/2023	
Analysis Started On	21/07/2023 Analysis Completed		pleted On 26/07/2023		
Sample Container	Plastic Carboy + Glass Bottle Sample Quantity		Sample Quantity 5 lit + 1		it + 1 lit

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.50		APHA 4500 H*
2	Turbidity	55.5	NTU	APHA 2130 8
3	Chemical Oxygen Demand (COD)	32	eng/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27ºC day) (BOD)	10	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	44	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0,1	mg/lit	APHA 5520 8
7	Total Dissolved Solids 180°C	-44	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.064	mg/lit	APHA 3111 B
9	Iron (Fe)	< 0.049	mg/lit	APHA 3111 B

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note:

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- 2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
- 3. Samples will be preserved for a period 15 days from the delivery of Test Report.
- 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.

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Sr.			Certificate		ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Motor	GL/EQ/pH/61		In house Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
04	BOD Incubator	GL/EQ///02	AVI/2207014	29/06/2023	28/06/2024
05	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse
06.	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Inhouse



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525 Tel.: (02362) 223518 • E-mail : info@gadark.in • Website : www.gadark.in

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

TEST REPORT

	ANALYSIS REPORT	FORW	ATER SAMPLE			
Report No.	GW/23/1227		Report Date	26/07/		2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internati	ional Airport, Dadache	waidi Ro	ed, N	agzar,
Order / Reference	As Per Dated 21/07/2023	Environmental Condition of Lab		Temp 27		Humidity % 99
Sampling Plan	GLPL/QF/7.3/06	Sample	ng Procedure No.	APHA 1060		
Sampling Point	Storm Water LS 4 A			-		
Sampling Details	LS 4 A Storm Water Sampl	le l	Date of Collection	2	21/07/2023	
Sample Collected by	GLPL Representative	entative Sample Received On		Dn 21/07/2023		2023
Analysis Started On	21/07/2023	Analysis Completed C		d On 26/07/2023		2023
Sample Container	Plastic Carboy + Glass Bot	Carboy + Glass Bottle Sample Quantity		5	5 lit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7,99		APHA 4500 H*
2	Turbidity	33.0	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	16	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	< 2.0	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	28	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	tifigits	APHA 5520 B
7	Total Dissolved Solids 180ºC	51	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.062	mig/lit	APHA 3111 B
9	Iron (Fe)	0.083	mg/lit	APHA 3111 B

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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



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Sr.			Certificate	Calibra	ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In house Calibration	
02.	Hat Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/08/2023	28/06/2024
04	BOD Incubator	GL/EQ///02	AVI/2207014	29/06/2023	28/06/2024
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse
06.	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse



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LAB.: H-S4, 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

	ANALYSIS REPORT	FOR WATER	SAMPLE		
Report No.	GW/23/1228 Re		Report Date	26/07/	2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International		wadi Road, M	Nagzar,
Order / Reference	As Per Dated 21/07/2023	Environmental Condition of Lab		Temp [®] C 27.8	Humidity %
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	ocedure No.	APHA 1060	
Sampling Point	Air Side Outfall - 3				
Sampling Details	Air Side Outfall - 3 Storm V	Nater Sample	Date of Colle	retion	21/07/2023
Sample Collected by	GLPL Representative	GLPL Representative		eived On	21/07/2023
Analysis Started On	21/07/2023		Analysis Completed On		26/07/2023
Sample Container	Plastic Carboy + Glass Bol	Plastic Carboy + Glass Bottle		Sample Quantity	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.30		APHA 4500 H*
2	Turbidity	36.9	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	24	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	4	mgAit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	26	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	39	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.080	mg/lit	APHA 3111 B
9	Iron (Fe)	0.063	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Sr.			Certificate	Calibra	ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In house Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COO/01	AV1/2207010	29/06/2023	28/08/2024
04	BOD Incubator	GL/EQ///02	AV#2207014	29/06/2023	28/05/2024
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse
06,	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024
07	AAS (GBC)	GUEQ/AAS/01		Inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/1229		Report Date	28/07		2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	al Airport, Dadachi	wadi R	load, N	agzar,
Order / Reference	As Per Dated 21/07/2023	Environmental Condition of Lab			np C	Humidity %
Sampling Plan	GLPL/QF/7.3/06	Sampling	npling Procedure No. APHA 1060			
Sampling Point	LS I Storm Water Sample	3				
Sampling Details	Storm Water LS - I	D	Date of Collection		21/07/2023	
Sample Collected by	GLPL Representative	S	Sample Received On		21/07/2023	
Analysis Started On	21/07/2023 Ani		Analysis Completed On		n 26/07/2023	
Sample Container	Plastic Carboy + Glass Bot	tle S	Sample Quantity		5 lit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	5.91		APHA 4500 H*
2	Turbidity	33.5	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	24	mig/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	7	mgdit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	32	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mp/lit	APHA 5520 B
7	Total Dissolved Solids 180 ⁶ C	206	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.052	mg/lit	APHA 3111 B
9	Iron (Fe)	0.084	mg/lit	APHA 3111 B

End

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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			A REAL PROPERTY AND A REAL	Calibration Details			
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date		
01	pH Meter	GL/EQ/pH/01	14	In house Calibration			
02	Hot Air Oven	GL/EQ/0/01	AV#2207012	29/06/2023	28/06/2024		
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024		
04.	BOD Incubator	GL/EQ//02	AVI/2207014	29/06/2023	28/06/2024		
05	Nephelometer	GL/EQ/Turb/01		Inhouse	Inhouse		
06.	AAS (GBC)	GL/EQ/AAS/01	***	Inhouse	Inhouse		



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LAB.: H-54, Additional M.I.D.C. Kudat, Taluka - Kudat, District - Sindhudurg - 416 525. Tel. / (02362) 223519 • E-mail : info@gedark.in • Website : www.gedark.in

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TEST REPORT

Ree	ioit Date		AM	BIENT AIR	QUALITY M	ONITORIN	G REPOR	T							
and a state of the	ne of Client		04/09/2023												
	And the second se		M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED												
	ress of Client		ADMINIS NAGZAR	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 401512											
	pling Plan		GLPL/QF/	PL/QF/7.3/06 Page Ma											
	ple Collected I		GLPL Rep	PL Representative 1 of 1											
Mon	th of Sampling		August 20	ogust 2023											
0	line of the birt		_	AME	HENT AIR L	OCATION	-								
	tion of Ambien		Mop	a Boundry	- Goa Stat	e (G-A1)									
Aver	age Ambient T	emperature (°C	1	31.0			Humidity (1961	1						
	age Wind Spec	od (km/hr)	_	62			Concession of the local division of the loca	tion (Deg)	-	87					
Latits	anci			N 15463	51.1*	Longitude		and they		305					
erize/L	ment Used	_		FPS (APM	- 550)	Concession of the local division of the loca	S (APM -	460)		73*56 32					
Sr. No.	Date of Sampling	Report No.	-			11000	AMETER		00	S (APM	411)				
1			SPM	PMu	PMas	SO ₂	NOx	CO	COr	Desis	T and				
2	03.08.2023	GA/23/1888	34.18	59.47	17.34	< 6.0	< 9.0	0.49	119.9	Lead	-				
3	07.08.2023	GA/23/1933	32.94	54.13	13.60	< 8.0	< 9.0	0.35	104.4	0.08	< 1.0				
4	10.08.2023	GA/23/1964	42.9	64.07	14.01	< 6.0	< 9.0	0.31	1104.4	0.05	< 1.0				
5	14.08.2023	GA/23/1977	46,2	60.89	12.43	< 6.0	< 9.0	0.39	120.1	0.06	<1.6				
6	17.08.2023	GA/23/1995	43.3	52.01	11.31	< 6.0	< 9.0	0.55	120.1	0.06	< 1.0				
7	21.08.2023	GA/23/2014	49.2	53.57	13.43	< 6.0	< 9.0	0.47	116.2	0.05	< 1.0				
-	24.08.2023	GA/23/2044	51.9	55.57	11.85	< 6.0	<9.0	0.41	the second s	0.06	< 1.0				
9	28.08.2023	GA/23/2096	59.2	59.44	10.89	<6.0	< 9.0	0.95	106.6	0.04	< 1.0				
9	31.08.2023	GA/23/2111	56.3	55.44	12.48	< 6.0	< 9.0	0.65		0,03	< 1.0				
-	NAAQS LIN		-	100	60	80	80	2	125.7	0.06	< 1.0				
-	UNITS		hð/m ₃	µg/m ³	µg/m ²	and/wa	MB(m3	mg/m ³	ppm	1	-				
	METHO		18 5582 (Pwit 4)	IS \$162 (Part XX0)) 2006	IS STE2 (Pavt XXIV) 2008	15 5182 (Part II) 2001	15 5142 (Part VI) 2006	45 5182 (Post.X) 1949	GC Method	US 5182 dPart XXUS	EPA Matrod 18				
The n Test F Samp Test F Gaster Caller or G	teport shall be preserve teport shall be preserve termine will be preserve termine complete over to mer complete over to mer complete over to the complete over to the complete over the ADARK LAB	produced accept in the a period 10 day the conditions prov- er in evaluations prov- er in evaluation of an experience's used in a PVT, LTD.	full, without we a from the defe alling at the ter	Men approval of erry of Test Ray	tants while of analy	nas naprum.	20	-		2004					
UTH	DRISED SIGN	ATORY		131	El ma		CHEC	KED BY							

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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RDS (APM - 460)

TEST REPORT

		AMBIENT AIR QUALITY	MONITORING REPORT						
Report Date	04/0	94/09/2023							
Name of Client	M/s	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED							
Address of Client			OPA INTERNATIONAL AIRPORT, DAI MOPA, NORTH GOA 403512.	DACHIWADI ROAD,					
Sampling Plan	GLF	1./QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	L Representative							
Month of Sampling	Aug	ust 2023							
		AMBIENT AIR	LOCATION						
ation of Ambient Air Sta	tion	Shemecheadvan Goa	State (G-A2)						
Average Ambient Temperat	ture (*C)	31	Average Humidity (%)	82					
Average Wind Speed (km/h	ir)	60.2	Average Wind direction (Deg)	316					
Latitude		N 15142'06.1"	Longitude	E 73%49/21.5*					

FPS (APM - 550)

Sr.	Date of			PARAMETERS								
No.	Sampling Report No.	SPM	PMio	PMIS	SOJ	NOx	CO	COT	Lead	VOC		
1	03.08.2023	GA/23/1887	28.37	51.33	11,60	< 6.0	< 9.0	0.61	117.6	0.06	< 1.5	
2	07 08 2023	GA/23/1932	25.12	48.41	9.44	<6.0	< 9.0	0.59	131.8	0.04	< 1.1	
3	10.08.2023	GA/23/1963	38.7	65.65	14.22	< 6.0	< 9.0	0.46	118.4	0.04	< 1.0	
4	14.08.2023	GA/23/1976	42.5	55.70	13.47	< 6.0	< 9.0	0.28	115.0	0.07	< 1.0	
5	17.08.2023	GA/23/1994	37.8	52.25	14.06	< 6.0	< 9.0	0.39	105.2	0.03	< 1.0	
6	21.08.2023	GA/23/2013	52.4	54.19	11.23	< 6.0	< 9.0	0.36	122.7	0.04	< 1.0	
7	24.08.2023	GA/23/2043	53.3	57.20	13.93	< 6.0	< 9.0	0.45	125.8	0.02	< 1,1	
)	28.08.2023	GA/23/2095	61.7	60.43	14,51	< 6.0	< 9.0	0.37	112.9	0.03	< 1.0	
9	31.08.2023	GA/23/2110	60.1	63.01	15.68	< 6.0	< 9.0	0.85	130.8	0.07	< 1.6	
	NAAQS LI	MITS*	-	100	60	80	80	2		1	-	
UNITS		tig/m ³	µg/m ¹	hðim ₃	pg/m ³	pg/m ³	mg/m ³	ppm	µg/m ³	ppm		
		(5 5182 (Fat 4)	25.5182 (Part XX80) 2006	15 3182 (Part 300V) 2008	85.5182 (Part 8) 2501	15.5182 (Part VI) 2008	15:5182 (Part X) 1999	GC Method	(Part (Part XXI)	EPA Metho 12		

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note :

Instrument Used

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. Samples will be preserved for a period 15 days from the delivery of Tast Report.

Test Results relate any to the conditions prevailing at the time of sampling.
 Customer compliant register is available at taboratory.

8. Calification details of the equipment's used in indektoring and / or analysis is back side of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]



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GPS (APM - 411)

Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 936-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 476-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 471-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		and the second se						
		AMBIENT AIR QUALITY	MONITORING REPORT					
Report Date	04/0	09/2023						
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED					
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACH/WADI ROAD,				
Sampling Plan	GL	PL/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GLF	PL Representative						
Month of Sampling	Aug	August 2023						
		AMBIENT AIR	LOCATION					
Location of Ambient Air Sta	noit	Nagzar – Goa State (G-A3)						
Jrage Amblent Tempera	ture (*C)	30.5	Average Humidity (%)	86				
Average Wind Speed (km/h	w)	60	Average Wind direction (Deg)	288				
Latitude		N 15'45'37.3"	Longitude	E 73*53'14.22"				
Instrument Used		FPS (APM - 550)	RDS (APM - 450)	GPS (APM - 411				

Sr.	Date of Sampling	Report No.	PARAMETERS								
No.			SPM	PM ₁₀	PMER	SOr	NOx	CO	COs	Lead	VOC
1	03.08.2023	GA/23/1880	37.5	54.77	18.92	< 6.0	< 9.0	0.47	123.1	0.03	< 1.0
2	07.08.2023	GA/23/1925	39.45	58.70	16.88	< 6.0	< 9.0	0.99	142.9	0.05	< 1.0
3	10.08.2023	GA/23/1956	46.4	71.15	14.01	< 6.0	< 9.0	0.76	128.3	0.06	< 1.0
4	14.08.2023	GA/23/1969	49.3	64.30	11.02	< 6.0	< 9.0	0.50	110.2	0.05	< 1.0
5	17.08.2023	GA/23/1987	38.5	52.60	10.44	< 6.0	< 9.0	0.45	120.0	0.05	< 1.0
6	21.08.2023	GA/23/2005	49.7	60.02	13.06	<6.0	< 9.0	0.57	111.7	0.02	< 1.0
7	24.08.2023	GA/23/2036	53.0	64.07	16.67	< 6.0	< 9.0	0.27	122.6	0.05	< 1.0
8	28.08.2023	GA/23/2088	59.4	65.96	14.43	< 6.0	< 9.0	0.55	123.7	0.04	< 1.0
)	31.08.2023	GA/23/2103	70.0	60.33	16.63	< 6.0	< 9.0	0.38	111.5	0.08	< 1.0
	NAAQS LIM	ITS *	-	100	60	80	50	2	-	1	-
	UNITS		µg/m³	µg/m ³	µg/m³	µg/m ³	pg/m ³	mg/m ³	ppm	µg/m ³	ppm
	METHO	D	45 5182 (Pwt 4)	15.5152 (Part X008) 2006	15.5182 (Part XXXV) 2006	15.5182 (Plat I0 2001	15.5182 (Piat V8 2005	15.5182 (Part X) 1998	GC Method	15 5182 (Part 8,00) 2004	EPA Method 18

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Note :

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Test Report shall not be reproduced except in full, without written approval of the laboratory.
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4. Test Results relate only to the conditions prevailing at the time of sampling.

5. Customer complaint register is available at laboratory

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

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN E. GAONKAR]

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Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221, dated 24th August 2021, valid up to 15th October 2023, ISO 9001 : 2015 Certified & ISO 45001 : 2016 Certified.

CALIBRATION D	ETAILS OF	EQUIPMENT	USED	FOR	SAMPLING
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Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 847-DTJ-2019	08/10/2022	08/10/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6896-DTC-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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

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TEST REPORT

71505	9/2023						
Mile	4/09/2023						
and the second	GMR GOA INTERNATION	AL AIRPORT LIMITED					
		PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,				
GLP	L/QF/7.3/06	Page No.	1 of 1				
GLP	L Representative	1					
Aug	ust 2023						
	AMBIENT AIR	LOCATION					
n	Purva Casarvamem - Goa State (G-A4)						
e (°C)	31	Average Humidity (%)	84				
	70	Average Wind direction (Deg)	290				
	N 15*41'41.9"	Longitude	E 73*50'16.6"				
Instrument Used		FPS (APM - 550) RDS (APM - 460) (
	GLP GLP	NAGZAR, TALUKA PERNEM, N GLPL/QF/7.3/06 GLPL Representative August 2023 AMBIENT AIR m Purva Casarvamern - G re (°C) 31 70 N 15*41*41.9*	NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512. GLPL/QF/7.3/06 Page No. GLPL Representative Page No. August 2023 AMBIENT AIR LOCATION m Purva Casarvarnem - Goa State (G-A4) re (*C) 31 Axerage Humidity (%) 70 Average Wind direction (Deg) N 15*41'41.9* Longitude				

Sr.	Date of Sampling	Report No.	PARAMETERS								
No.			SPM	PMre	PMLs	50;	NOx	CO	CO ₂	Lead	VOC
1	03.08.2023	GA/23/1881	23.7	58.89	14.72	< 6.0	< 9.0	0.71	141.2	0.04	< 1.0
2	07.08.2023	GA/23/1926	27.35	55.07	12.93	< 6.0	< 9.0	0.45	110.4	0.02	< 1.0
3	10.08.2023	GA/23/1957	28.0	62.98	12.43	< 6.0	< 9.0	0.36	115.2	0.07	< 1.0
4	14.08.2023	GA/23/1970	31.6	56.26	13.14	< 6.0	< 9.0	0.33	120.1	0.07	< 1.0
5	17.08.2023	GA/23/1988	22.2	46.78	9.65	< 6.0	< 9.0	0.33	130.0	0.06	< 1.0
6	21.05.2023	GA/23/2007	31.0	57.55	10.19	< 6.0	< 9.0	0.70	127.2	0.07	< 1.0
7	24.08.2023	GA/23/2037	35.2	60.71	11.81	< 6.0	< 9.0	0.68	128.7	0.05	< 1.0
1	28.08.2023	GA/23/2089	41.4	58.37	12.06	< 6.0	< 9.0	0.28	105.4	0.03	< 1.0
9	31.08.2023	GA/23/2104	38.7	50.22	13.22	< 6.0	< 9.0	0.23	102.6	0.08	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-
	UNIT	5	µg/m ³	µg/m ²	µg/m ³	µg/m ³	µg/m ²	mg/m ²	ppm	µg/m ^x	ppm
	METH	ac	15 5182 (Pwt 4)	45 5182 (Part XXIR) 2006	85 9182 (Part XX(V) 2508	85.5142 (Plat.4) 2001	15 5182 (Part V6) 2006	(Part.X) (9art.X) 1909	OC Method	85 5182 (Part XX85 2004	EPA Method 18

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Note 1

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Test Report shall not be reproduced except in full, without writion approval of the falsolatory.
 Gamples will be preserved for a period 15 stays from the delivery of Test Report.
 Test Results retails only to the conditions prevailing at the time of sampling.

5. Customer complaint register is available at bibrostory

5. Calibration details of the equipment's used in monitoring and I or an a is back side of analysis report. For GADARK LAB PVT. LTD. LAB

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT					
Report Date	04/0	04/09/2023						
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED					
Address of Client		DMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, AGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.						
Sampling Plan	GU	PL/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GU	L Representative						
Month of Sampling	Aug	ust 2023						
	din sec	AMBIENT AIR	LOCATION					
Tation of Ambient Air Sta	tion	Khajne Amere Porscode	orscodem - Goa State (G-A5)					
Average Amblerit Tempera	ture (°C)	30.5	Average Humidity (%)	90				
Average Wind Speed (km/ł	H)	62.5	Average Wind direction (Deg)	312				
Latitude		N 15%40'38.0"	Longitude	E 73*46'21.2"				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of	Depart No.	PARAMETERS								
No.	Sampling	Report No.	SPM	PM10	PM _{2.5}	\$01	NOx	co	COI	Lead	VOC
1	03.08.2023	GA/23/1882	13.8	31.56	7.03	< 6.0	< 9.0	0.42	115.1	0.03	< 1.0
2	07.08.2023	GA/23/1927	11.56	34.45	6.20	< 6.0	< 9.0	0.36	115.9	0.04	< 1.0
3	10.08.2023	GA/23/1958	11.7	43.84	8,48	< 6.0	< 9.0	0.30	107.5	0.06	< 1.0
4	14.08.2023	GA/23/1971	13.7	33,65	7.69	<8.0	< 9.0	0.56	135.0	0.07	< 1.0
5	17.08.2023	GA/23/1989	7.6	30.16	5.49	< 6.0	< 9.0	0.28	115.0	0.05	< 1.0
6	21.08.2023	GA/23/2008	9.4	33.30	8.57	< 6.0	< 9.0	0.63	117.1	0.03	< 1.0
7	24.08.2023	GA/23/2038	12.0	37.24	9.86	< 6.0	< 9.0	0.43	118.8	0.05	< 1.0
η.	28.08.2023	GA/23/2090	10.8	37.25	10.10	< 6.0	< 9.0	0.40	118.6	0.03	< 1.0
1	31.08.2023	GA/23/2105	9.4	32.65	9.02	< 6.0	< 9.0	0.65	124.9	0.06	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	
	UNIT	s	hð\ws	µg/m ³	µg/m²	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m³	ppm
	METH	00	15 5182 (Part 4)	15 5182 (Part XXIII) 3006	IS 5182 (Part XXIV) 2506	15 5142 (Part 8) 2001	(5.5182 (Part VI) 2006	15 \$362 (Part X) 3988	GC Method	65.9182 (Part. XX8) 2004	EPA Method 18

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4. Test Results relate only to the sondbons prevailing at the time of sampling.

8. Customer comparent register is available at laboratory

6. Calibration details of the equipment's used in munitoring and / or analysis is back side of analysis report. For GADARK LAB PVT. LTD.

For GADARK LAB PVT. LTD. Seavulu

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	04/	/09/2023							
Name of Client	M/1	GMR GOA INTERNATION	AL AIRPORT LIMITED						
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							
Sampling Plan	GL	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GU	PL Representative							
Month of Sampling	Aug	just 2023							
		AMBIENT AIR	LOCATION						
ation of Ambient Air St	ation	Rajvil Wada Torxem - Goa State (G-A6)							
Average Ambient Tempera	iture (°C)	30.5	Average Humidity (%)	90					
Average Wind Speed (km/	hr)	65	Average Wind direction (Deg)	305					
Latitude	10	N 15*48'40.0"	Longitude	E 73*52'60.2"					
Instrument Used		FPS (APM - 550) RDS (APM - 400) GPS (APM -							
Sr. Date of Real	oort No.		PARAMETERS						

Sr.	Date of	Report No.	PARAMETERS								
No.	Sampling		SPM	PMse	PMLS	50;	NOx	co	COI	Lead	VOC
1	03.08.2023	GA/23/1885	24.88	53.94	13.85	< 6.0	< 9.0	0.76	129.7	0.05	< 1.0
2	07.08.2023	GA/23/1930	22.09	47.78	10,77	< 6.0	< 9.0	0.83	137.8	0.05	< 1.0
3	10.08.2023	GA/23/1961	30.9	63.69	12.64	< 6.0	< 9.0	0.50	130.7	0.06	< 1.0
4	14.08.2023	GA/23/1974	35.0	53.04	10.19	< 6.0	< 9.0	0.78	120.3	0.05	< 1.0
5	17.08.2023	GA/23/1992	25.5	55.24	12.39	< 6.0	< 9.0	0,78	110.1	0.05	< 1.0
6	21.08.2023	GA/23/2011	38.3	45.88	13.72	< 8.0	< 9.0	0.41	107.3	0.07	< 1.0
7	24.08.2023	GA/23/2041	40.7	52,84	10.35	< 6.0	< 9.0	0.47	115.2	0.03	< 1.0
н.	28.08.2023	GA/23/2093	42.3	48.98	11.60	< 6.0	< 9.0	0.84	137.2	0.04	< 1.0
4	31.08.2023	GA/23/2108	38.8	45.98	13.76	< 6.0	< 9.0	0.81	135.6	0.02	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-
UNITS		hðyu _s	µg/in ³	µg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ²	ppm	
	METH	ac	15.6182 (Part.4)	45 5162 (Plan XXIII) 2006	15 6182 (Part 300V) 2008	65 5182 (Part II) 2001	15 5162 (Part VI) 2006	15 5182 (Part X) 1000	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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Note :

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5. Customer compliant register is available at laboratory

8. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report. For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 935-DTA-2015	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2023	15/05/2024
Gaseoue Sampler Sr. No. 262-D-22	16/05/2023	15/05/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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OFF.: 15. Hindustan Kotinoor Industrial Complex, L.B.S. Marg, Viktvoli (West), Mumbal - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 93213 12367

TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	04/0	04/09/2023							
Name of Client	M/s	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED							
Address of Client		DMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, IAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Aug	ust 2023							
		AMBIENT AIR	LOCATION						
I tation of Ambient Air Sta	tion	Satarda - Maharashtra	arda - Maharashtra State (M-A1)						
Average Ambient Temperat	ure (*C)	30	Average Humidity (%)	81					
Average Wind Speed (km/h	r)	56.4	Average Wind direction (Deg)	268					
Latitude		N 15*43'01.3*	Longitude	E 73*46'00.2"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Propert No.		PARAMETERS							
No.	Sampling	Report No.	SPM	PMni	PMax	SOF	NOx	CO	COs	Lead	VOC
1	03.08.2023	GA/23/1883	25.6	53.50	12.89	< 6.0	< 9.0	0.23	104.7	0.03	= 1.0
2	07.08.2023	GA/23/1928	22.40	47.60	9.86	< 6.0	< 9.0	0.23	107.6	0.03	< 1.0
3	10.08.2023	GA/23/1959	25.7	64.81	10.98	< 6.0	< 9.0	0.50	136.3	0.05	< 1.0
4	14.08.2023	GA/23/1972	35.6	49.83	11.39	< 6.0	< 9.0	0.67	130.0	0.06	< 1.0
5	17.08.2023	GA/23/1990	23.1	44.07	10.23	< 6.0	< 9.0	0.50	125.0	0.06	< 1.0
6	21.08.2023	GA/23/2009	25.4	46.95	11.98	< 6.0	< 9.0	0.58	118.4	0.06	< 1.0
7	24.08.2023	GA/23/2039	27.7	52.94	12.64	< 6.0	< 9.0	0.63	120.9	0.05	< 1.0
. 4	28.08.2023	GA/23/2091	29.0	60.09	10.94	< 6.0	< 9.0	0.49	119.4	0.04	< 1.0
1	31.08.2023	GA/23/2106	30.8	54.75	10.77	< 6.0	< 9.0	0.49	123.4	0.09	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	
	UNIT	s	µg/m ³	µg/m ³	µg/m ³	µg/m³	µg/m³	mg/m ³	ppm	pillun ₃	ppm
	METH	ao	15.5182 (Part 4)	45 5152 (Psit XXIII) 2000	15 5182 (Part 8,874) 2006	15 5187 (Part II) 2001	15 9182 (Part VI) 2506	15 5182 (Part X) 1990	GC Method	85 5142 dPart XXR) 2004	EPA Method 18

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Note 1

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4. Test Results relate only to the conditions prevailing at the time of sampling.

5. Guidamer complaint register is available at laboratory

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

For GADARK LAB PVT. LTD. Beavula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221, dated 24th August 2021, valid upto 15th October 2023. ISD 9901 : 2015 Certified & ISD 45001 : 2018 Certified.

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



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TEST REPORT

		AMBIENT AIR QUALITY M	MONITORING REPORT						
Report Date	04/0	04/06/2023							
Name of Client	M/s	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED							
Address of Client		DMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, IAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	L Representative							
Month of Sampling	Aug	ust 2023							
		AMBIENT AIR	LOCATION						
ation of Ambient Air Sta	tion	Dingane - Maharashtra	Dingane – Maharashtra State (M-A2)						
Average Ambient Temperat	ture (*C)	30	Average Humidity (%)	92					
Average Wind Speed (km/h	n)	54.3	Average Wind direction (Deg)	311					
Latitude		N 1546'12.3"	Longitude	E 73*49'20.5*					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Charles and State	PARAMETERS								
No.	Sampling	Report No.	SPM	PMtt	PMLs	507	NOx	CO	COr	Lead	VOC
1	03.08.2023	GA/23/1886	9.28	31.40	7.86	< 6.0	< 9.0	0.66	124.7	0.06	< 1.0
2	07.08.2023	GA/23/1931	10.01	26.51	7.49	< 6.0	< 9.0	0.30	114.3	0.04	< 1.0
3	10.08.2023	GA/23/1962	10.5	29.43	11.60	< 6.0	< 9.0	0.48	112.4	0.04	< 1.0
4	14.08.2023	GA/23/1975	8.9	31.33	9.56	< 6.0	< 9.0	0.72	125.0	0.07	< 1.0
5	17.08.2023	GA/23/1993	7.0	27.88	8.03	< 6.0	< 9.0	0.73	125.2	0.05	< 1.0
6	21.08.2023	GA/23/2012	9.0	34.17	10.44	< 6.0	< 9.0	0.87	137.4	0.05	< 1.0
7	24.08.2023	GA/23/2042	10.3	37.69	9.61	< 6.0	< 9.0	0.35	121.6	0.06	< 1.0
0	28.08.2023	GA/23/2094	11.6	34.51	9.90	< 6.0	< 9.0	0.39	118.9	0.03	< 1.0
9	31.08.2023	GA/23/2109	10.4	29.74	9.11	< 6.0	< 9.0	0.51	128.2	0.03	< 1.0
	NAAQS LI	MITS *	-	100	50	80	80	2		1	
UNITS		s	pg/m ⁵	µg/m ¹	µg/m ³	µg/m ³	hðjul ₂	mg/m ³	ppm	µg/m ³	ppm
	METH	00	its stiez (Part 4)	85 5182 (Part XXIII) 2004	KS STRZ (Part XXXV) 2006	85 1182 (Part II) 2001	85 5182 (Part Vi) 2006	85.0182 (Pwt X) 1999	GC Method	15.5183 (Pax) XX05 2004	EPA Melliod 18

"N.A.A.Q.5. - National Ambient Air Quality Standards

Note 1

1. The results relate only to the samples bashed.

2. Test Report shall not be reproduced except in full, without written approval of the taboratory.

3. Bamples will be preserved for a period 15 days from the delivery of Test Report. 4. Test Results relate only to the conditions prevailing at the time of sampling.

5. Customer complaint register is available at laboratory

8. Calibration details of the expolpment's used in monitoring and / or ses is back side of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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



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

TEST REPORT

_														
			AMBI	ENT AIR QU	ALITY MO	NITORING	REPORT							
Repo	rt Date		04/09/2023											
Name	of Client		M/s. GMR (MR GOA INTERNATIONAL AIRPORT LIMITED										
Addre	ess of Client				CK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, RNEM, MOPA, NORTH GOA 403512.									
Samp	ling Plan		GLPL/QF/7	PL/QF/7.3/06 Page No. 1 of 1										
Samp	le Collected By	Y	GLPL Repri	sentative										
Month	of Sampling		August 2023	ugust 2023										
				AMBIE	INT AIR LO	DCATION								
1-100	ion of Ambient	Air Station	Neta	Netarde - Maharashtra State (M-A3)										
Avera	ge Ambient Te	mperature (°C	2)	30 Average Humidity (%)					90					
Avera	ge Wind Spee	d (km/hr)		50.1 Average Wind direction (Deg)						262				
Latitu	de			N 15*46'11	.T*	Longitude E 73*53'47					.0°			
Instrument Used			1 1	PS (APM -	\$50}	RDS	RDS (APM - 460) GPS (APM - 4							
Sr.	Date of	Report No.				PAR	AMETERS							
No.	Sampling	Report No.	SPM	PM ₁₈	PM _{2.8}	SO1	NOx	CO	COr	Lead	VOO			
1	03.08.2023	GA/23/1884	11.0	29.29	89.98	< 6.0	< 9.0	0.78	130.4	0.04	<1.			
3	07.08.0000	03/03/40/05	44.82	22.44		100	- 0.0	0.03	110.0	0.00	1			

METHOD			15.5182 (Part 4)	15 5142 (Piet XXIII) 2005	10 6182 (Pwit XXIV) 2006	(\$ 1182 (Part II) 2001	45.6182 (Part VI) 2000	45 3182 (Part X) 1999	GC Method	(5 1182 (Purt XX8) 2004	EPA Method 18
	UNIT	S	µg/m ³	µg/m ¹	hðuu _g	hðw ₂	pg/m ³	w@w_3	ppm	µg/m ³	ppm
	NAAQS LI	-	100	60	80	80	2	-	1	-	
4	31.08.2023	GA/23/2107	7.8	28.28	6.45	< 6.0	< 9.0	0.45	129.6	0.06	< 1.0
1	28.08.2023	GA/23/2092	9.1	31.56	7.61	< 6.0	< 9.0	0.57	131.9	0.04	< 1.0
2	24.08 2023	GA/23/2040	10.0	28.13	8,40	< 6.0	< 9.0	0.53	125.5	0.04	< 1.0
6	21.08.2023	GA/23/2010	11.5	31.23	85.8	< 6.0	< 9.0	0.49	108.8	0.06	< 1.0
5	17.08.2023	GA/23/1991	14.4	22.73	8.48	< 6.0	< 9.0	0.67	135.0	0.06	< 1.0
4	14.08.2023	GA/23/1973	16.0	27.64	7.61	< 6.0	< 9.0	0.56	115,1	0.07	= 1.0
3	10.08.2023	GA/23/1960	19.1	30.27	9.86	< 6.0	< 9,0	0.34	119.8	0.09	< 1.0
2	07.08.2023	GA/23/1929	11.83	31,41	8.85	< 6.0	< 9.0	0.63	140.0	0.05	< 1.0
1	03.08.2023	GA/23/1884	11.0	29.29	69.9	< 6.0	< 9.0	0.78	130.4	0.04	< 1.0

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note :

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3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Results relate only to the conditions prevailing at the time of sampling.

5. Customir complaint register is available at laboratory

6. Calibration details of the explanment's used in monitoring and / or analysis is back side of analysis report LAB

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 942-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 477-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 470-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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OFF.: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 93213 12587

TEST REPORT

Date	e of issue	_	04/09	/2023										
Nan	ne of Client		M/m.	GMR GO	A INTE	ERNATIO	AL AIRPORT	LIMIT	ED				-	
	ress of Clien	6	ADMI	NISTRA	TIVE B	LOCK, MO	PA INTERNA	TIONA	L AIR			HIWA	Di	
Sart	pling Plan		and the second	/DF/7.3/	and the second second	spectrum in the later of the la	Sampling Proc	a section of the section of	and the second se	T	and the second s	SOP/A	A/17	
	ple Collecte	d Bu	and the second	Represe		A	considered a sec				001	and the		
oan	the contents	a by	ULP L			the second s		ONTO	214440					
	AMBIENT AIR NOISE POLLUTION MONITORING										Night Time Noise			
Se,	Date of	Repo	it No.	Station	Zone	Sampl	ing Location	Long	in dil(A)		mig	in itB(A)		
No.	Sampling	10.755	natives:	HD I	1223-121	1000		Luis	Los Los Los			Los	Les	
1	15.08.2023	()A/2	3/1978	G-N1	1	Mops Boot	stary	33.4	88.4	60.9	34.6	74.0	40.5	
2	05.08.2023	GA(2	3/1924	G-N2	1	Shemeche	ndvan	33.6	90.1	57.5	39.6	72.5	44.7	
1	06.06.2023	GA/2	2/1923	G-N3	C	Nagan		30.2	88.8	61.4	31.3	09.4	\$2.0	
4	04,08.2023	0A/2	3/1899	G-N4	19	Purva Cas	arvanters	30.9	64.9	53.8	30.4	58.3	43.5	
6	10.08.2023	GA/Z	3/1966	G-N5	R	Chandel		30.4	94.7	53.6	30.1	82.2	43.1	
6	08.08.2023	GAZ	3/1034	13-NG	R	Khajne Am	ere Porsciodien	30.7	75.7	52.2	30.5	63.0	42.3	
7	10.08.2023	GA/2	3/1965	G-N7	R	Warkhard		31.6	65.3	51.2	30.2	59.3	43.2	
8	18.08.2023	GA/2	3/2003	G-NE	C	Rajvil Vaid	Torners	30.7	63.8	46.4	30.4	62.0	20.4	
9	18.08.2023		3/2064	G-N8	C	and the second sec	- Mopa - Upvers	30.6	64.3	57.6	30.1	73.6	50.5	
10	08.08.2023	and the second	3/1935	M-N1	<u>R</u> .	Saturda		30.6	77,3	82.5	30.6	59.3	43.5	
11	01.08.2023		3/1844	\$1.112	R.	Dirigane		30.0	92.0	52.4	30.1	70.7	37.8	
12	01.08.2023	GA/2	3/1545	M-N3	- H	Netarde		30.6	63.5	53.2	30.1	58.2	41,2	
			I – Indi	ustrial Zo	one, C	- Comme	ncial Zone, R	- Resi	dential	Zone				
1	Noise Limits as	per Sc	hedule (H of "The B	Environm	vent (Protect	ion) Rules, 1985	the second se	and the second se	-				
	Area Code			Category of Area Limits in dB(A) Leg										
	Perme Contra	0	country of a lot of			Day Time		Night Time						
	(A)	(A) Industrial Area (I)			75	70								
1	(0)		Come	nercial Are	a (C)			55						
	(G)		Resid	kential Area	(FI)		55							
_	(D)		Silenc	te Zone (S	5)		50		40					
7]	Day time to re-	ckoned	in belie	een 5:00 a	m to 10;	pm and nigh	t time is reckone	d in betw	ean 10.0	of mg 00	06:00 at	¥1.		
5]	*dB(A) Leg do A "decibel" is a					of the level of	I sound in decibe	ils on sci	de A whi	ich is reb	etable to	thuman t	earing	
43	"A", in dB(A) L characteristics				weight	ing in the me	asurement of no	iwe wrid c	prespo	nde to tre	iquency	response	•	
9	Log : It is the e	ilienay i	mean of	the noise	level ove	or a specified	period.							
For	i results relatic or it Report shait no it Results relate o domer complaint	AB F	roduced e w condition is available powerit's PVT. L	excernit in full ons presolitions ble at ladoom utunit in mor	ig al the 9 Nory	ine of sample of the matrice	at of the laboratory a back side of an UDAL		и.	N.	之			

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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

Equipment Name	Calibrated On	Calibration Due Date
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/23/1443	GW/23/1443			22/08/2023		
Client Name & Address	Administrative Bloc	GMR Gos International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 17/06/2023	Environmental Condition of Lab 24.1		dioach sein 🖗	Humidity % 50		
Sampling Plan	GLPL/QF17.3/06	Sampling P	rocedure No.	APHA 1060			
Sampling Point	WTP RO	10					
Sampling Details	WTP RO Outlet Wa	ter Sample	Date of Collection	ate of Collection		2023	
Sample Collected by	GLPL Representative		Sample Received On		On 18/08/2023		
Analysis Started On	18/08/2023		Analysis Completed On		n 22/08/2023		
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity		4 lit + 1.25 lit		

Chemical Testing:

0

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	6.82		6.5-8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	6.07	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	24	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	7.10	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO ₄	0.50	mg/lit	200.00	APHA 4500 SO 2 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S7F
11	Total Hardness as CaCO3	10	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.058	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT, LTD.

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TEST REPORT

Report No.	GW/23/1443	Report Date	22/08/2023
Order / Reference	As Per Dated 17/08/2023	Sample Received on	18/08/2023
Analysis Started On	18/08/2023	Analysis Completed On	22/08/2023
Client Name & Address	GMR Goz International Airpor Administrative Block, Mopa In Taluka Pernem, Mopa, North	ternational Airport, Dadachiw	adi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	NI	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NOs	0.004	mg/lit.	45.00	APHA 4500 NO3 B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

0

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsonic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	1.60	migfit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.049	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	1.46	mg/lit	30.00	APHA 3500 Mg 8
28	Chromium as Cr	< 0.01	mg/M	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.021	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	4.4	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	0.12	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1443	Report Date	22/08/2023
Order / Reference	As Per Dated 17/08/2023	Sample Received on	18/08/2023
Analysis Started On	18/08/2023	Analysis Completed On	22/08/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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For GADARK LAB PVT. LTD.

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Note:

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3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. 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.

Page 3 of 3

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			Certificate No.	Calibration Details		
Sr. No.	Equipment Name	Equipment Id		Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house	Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01		In house	Calibration	
03	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/06/2024	
04	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/06/2023	28/06/2024	
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023	
06	ICP - OES	GL/EQ/ICP/01		In house	Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AV1/2207006	29/06/2023	28/06/2024	
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	29/06/2023	28/06/2024	
09	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	17/08/2023	15/02/2024	
10.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024	
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024	



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TEST REPORT

	ANALYSIS RE	EPORT FOR WA	TER SAMPLE	1.1	
Report No.	GW/23/1444		Report Date	22/08/20	23
Client Name & Address	GMR Goa Internation Administrative Block, Taluka Pernem, Mope	Mopa Internation	al Airport, Dadachiwad	di Road, Na	gzar,
Order / Reference	As Per Dated	Emilian	ntal Condition of Lab	Temp °C	Humidity %
Crider / Helenence	17/08/2023	Environmen	nal concision of calo	24.1	50
Sampling Plan	GLPL/QF/7.3/06	Sampling P	rocedure No.	APHA 10	60
Sampling Point	Admin 2 nd Floor Pantr	y (East Wing)			
Sampling Details	Admin 2 ^{nt} Floor Pantr Water Sample	y (East Wing)	Date of Collection	17/	08/2023
Sample Collected by	GLPL Representative	Ê	Sample Received (On 18/	08/2023
Analysis Started On	18/08/2023	and to be the second of the second		d On 22/	08/2023
Sample Container	Plastic Carboy + Glas	s Bottle	Sample Quantity	4 18	+ 1.25 lit

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.15		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	2	Agreeable	APHA 2150 B
6	Total Alkalinity	50.60	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	52	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	15.22	mg/lit	250.00	APHA 4500 CI"B
9	Sulphate as SO4	1,75	mg/lit	200.00	APHA 4500 SO43 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	24	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH ₂
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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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

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TEST REPORT

Report No.	GW/23/1444	Report Date	22/08/2023
Order / Reference	As Per Dated 17/08/2023	Sample Received on	18/08/2023
Analysis Started On	18/08/2023	Analysis Completed On	22/08/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	NI	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.026	mg/lit	45.00	APHA 4500 NO2 B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-8,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	7.21	mg/lit.	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.049	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	1.46	mg/lit.	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.015	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	9.4	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	0.13	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B
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TEST REPORT

Report No.	GW/23/1444	Report Date	22/08/2023
Order / Reference	As Per Dated 17/08/2023	Sample Received on	18/08/2023
Analysis Started On	18/08/2023	Analysis Completed On	22/08/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 mi sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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Note:

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Equipment	Calibration	Details
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				Calibrati	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In house	Calibration
02.	Turbidity Meter	GL/EQ/Turb/01	2	In house	Calibration
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/06/2024
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06.	ICP - OES	GL/EQ/ICP/01		In house	Calibration
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	29/06/2023	28/06/2024
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	29/06/2023	28/06/2024
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	17/08/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024



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TEST REPORT

	ANALYSIS	REPORT FOR W/	ATER SAMPLE				
Report No.	GW/23/1445	GW/23/1445			22/08/2023		
Client Name & Address	Administrative Bloc	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Faluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 17/08/2023	Environmental	Temp 24.1	C	Humidity % 50		
Sampling Plan	GLPL/QF/7.3/06	Sampling Proce	sdure No.	APHA 1060			
Sampling Point	Café Gox						
Sampling Details	Café Gox Water Fo	untain Sample	Date of Collec	tion	1	7/08/2023	
Sample Collected by	GLPL Representati	GLPL Representative Sam		Sample Received On		8/08/2023	
Analysis Started On	18/08/2023 Analysi		Analysis Com	Analysis Completed On		2/08/2023	
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quant	tity.	4	lit + 1,25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.34		6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	- 1. a. ()	Agreeable	APHA 2150 B
6	Total Alkalinity	58.69	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	55	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	8.02	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	2.00	mg/lit	200.00	APHA 4500 SO43 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	30	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH ₃
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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TEST REPORT

Report No.	GW/23/1445	Report Date	22/08/2023
Order / Reference	As Per Dated 17/08/2023	Sample Received on	18/08/2023
Analysis Started On	18/08/2023	Analysis Completed On	22/08/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	NO	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₂	0.018	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit.	0.50	APHA 4500 B - B
23	Calcium as Ca	8.02	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	tron as Fe	0.059	mg/lit.	1.00	APHA 3111 B
26	Lead as Pb	< 0.01	mg/lit.	0.01	APHA 3120 B
27	Magnesium as Mg	2.44	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.011	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	9.0	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	0.84	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1445	Report Date	22/08/2023				
Order / Reference	As Per Dated 17/08/2023	Sample Received on	18/08/2023				
Analysis Started On	18/08/2023 Analysis Completed On 22/08/2023						
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,				

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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Note:

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				Calibrati	on Details
Sr. No.	Equipment Name	e Equipment Id Certificate No		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	*	In house	Calibration
02.	Turbidity Meter	GL/EQ/Turb/01		In house	Calibration
03	Analytical Balance	GL/EQ/BAL/03	AVV/2207023	29/06/2023	28/06/2024
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/05/2024
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06.	ICP - OES	GL/EQ/ICP/01		In house Calibratio	
07.	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AVI/2207005	29/06/2023	28/06/2024
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AV1/2207016	29/06/2023	28/06/2024
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	17/08/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVV2207004	29/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/08/2024



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TEST REPORT

	ANALYSIS REPORT	FOR WATE	ER SAMPLE			
Report No.	GW/K/23/0070	GW/K/23/0070 Report Date			/2023	
Client Name & Address	GMR Goa International Ain Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internationa	al Airport, Dadachi	wadi Road, M	lagzar,	
Order / Reference	As Per Dated 17/08/2023	Environmental Condition of Lab		Temp ⁶ C 29.2	Humidity % 88	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	STP Inlet					
Sampling Details	STP Inlet Water Sample	Da	ate of Collection	17/08/2023		
Sample Collected by	GLPL Representative		Sample Received On		/2023	
Analysis Started On	18/08/2023		Analysis Completed (/2023	
Sample Container	Plastic Carboy + Glass Bot	tie Sa	mple Quantity	5 lit +	1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	6.68		APHA 4500 H*
2	Chemical Oxygen Demand (COD)	995	tihem .	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	317	mg/lit	IS 3025 (Part 44). 1993
4	Total Suspended Solids (TSS)	72	mg/lit	APHA 2540 D
5	Oil & Grease (O & G)	6	mg/lit	APHA 5520 B
6	Ammonia	51.24	mg/lit	APHA 4500 NHs B&C
7	Total Nitrogen (as N)	62.16	mg/lit	APHA 4500-Norg

Microbiological Parameters:

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

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For GADARK LAB PVT. LTD.

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				Calibrati	on Details
Sr. No,	Equipment Name	oment Name Equipment Id Certificate No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	e	In house	Calibration
02.	Hot Air Oven	GL/EQ/O/01	AV#2207012	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
04.	BOD Incubator	GL/EQ//02	AV1/2207014	29/06/2023	28/06/2024
05	Microbiological Incubator (37 ° C)	GL/EQ/1-01	AVI/2207006	29/06/2023	28/06/2024
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	29/06/2023	28/06/2024
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024
08.	Autoclave	GL/EQ/A/01	AVV/2207004	29/06/2023	28/06/2024



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TEST REPORT

ANALYSIS	REPORT FOR	R WATER SAMPLE				
GW/K/23/0071		Report Date		22/08/2023		
GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
As Per Dated 17/08/2023	Environmental Condition of Lab		Temp °C 29.2		Humidity % 88	
GLPL/QF/7.3/06 Sampling I		Sampling Procedure No.		APHA 1060		
STP Outlet						
STP Outlet Water 5	STP Outlet Water Sample		17/08/2023		2023	
GLPL Representative		Sample Received	ed On 18/08/202		2023	
18/08/2023		Analysis Completed On		n 22/08/2023		
Plastic Carboy + Gl	ass Bottle	Sample Quantity		5 lit + 1.25 lit		
	GW/K/23/0071 GMR Goa Internation Administrative Block Taluka Pernem, Mo As Per Dated 17/08/2023 GLPL/QF/7.3/06 STP Outlet STP OUTLES STP OUTLES STP OUTLES STP OUTLES STP OUTLES STP OUTLES	GW/K/23/0071 GMR Goa International Airport Li Administrative Block, Mopa Intern Taluka Pernem, Mopa, North Go As Per Dated 17/08/2023 GLPL/QF/7.3/06 STP Outlet STP Outlet STP Outlet Water Sample GLPL Representative	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadac Taluka Pernem, Mopa, North Goa - 403512 As Per Dated Environmental Condition of Lab 17/08/2023 Environmental Condition of Lab GLPL/QF/7.3/06 Sampling Procedure No. STP Outlet Date of Collection GLPL Representative Sample Received 0 18/08/2023 Analysis Complete	GW/K/23/0071 Report Date GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi I Administrative Block, Mopa International Airport, Dadachiwadi I Taluka Pernem, Mopa, North Goa - 403512 As Per Dated Environmental Condition of Lab Tem 29 GLPL/QF/7.3/06 Sampling Procedure No. APH/ STP Outlet STP Outlet Sample Received On GLPL Representative Sample Received On 18/08/2023	GW/K/23/0071 Report Date 22/08/ GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, N Taluka Pernem, Mopa, North Goa - 403512 Temp °C As Per Dated 17/08/2023 Environmental Condition of Lab Temp °C GLPL/QF/7.3/06 Sampling Procedure No. APHA 1060 STP Outlet STP Outlet 17/08/ GLPL Representative Date of Collection 17/08/ GLPL Representative Sample Received On 18/08/ 18/08/2023 Analysis Completed On 22/08/	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.54		5.5 - 9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	32	mg/lit.	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27ºC day) (BOD)	7	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	13	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	3.92	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	6.44	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

	8	Fecal Coliform at 44.5 st C for 24 hrs.	79	MPN Index/100ml	100	APHA 9221 E
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				Calibration Details		
Sr. Equipment Nar No.	Fruinment Name Foundation	Certificate No.	Calibration Date	Next Calibration Due Date		
01.	pH Meter	GL/EQ/pH/01		In house Calibration		
02	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05.	Microbiological Incubator (37 fl C)	GL/EQ/1-01	AVI/2207006	29/06/2023	28/06/2024	
06.	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	29/06/2023	28/06/2024	
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024	
08.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024	



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TEST REPORT

	ANALYSIS REPORT	FORV	VATER SAMPLE				
Report No.	GW/23/1475	GW/23/1475 Report Date			29/08/2023		
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Interna	itional Airport, Dadachi	wadi f	Road, N	lagzar,	
Order / Reference	As Per Dated 24/08/2023	Environmental Condition of Lab		and the second	mp °C 19.5	Humidity %	
Sampling Plan	GLPL/QF/7.3/06	3/06 Sampling Procedure No.		AP	APHA 1060		
Sampling Point	OWS Inlet		and a construction of the second				
Sampling Details	OWS Inlet Storm Water Sample		Date of Collection	24/08/2023		2023	
Sample Collected by	GLPL Representative		Sample Received On		n 25/08/2023		
Analysis Started On	25/08/2023	25/08/2023		On	On 29/08/2023		
Sample Container	Plastic Carboy + Glass Bot	tle	Sample Quantity		5 lit + 1 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.16		APHA 4500 H*
2	Turbidity	13.8	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	32	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	6	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	9	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0,1	/it/gm	APHA 5520 B
7	Total Dissolved Solids 180ºC	28	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.080.0	mg/lit	APHA 3111 B
9	Iron (Fe)	0.116	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

End

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Note:

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				Calibrati	on Details
Sr. No.	Equipment Name	ent Name Equipment Id Certificate No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	1 (F)	In house Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVU2207010	29/06/2023	28/06/2024
04.	BOD Incubator	GL/EQ/1/02	AVV2207014	29/06/2023	28/06/2024
05.	Nephelometer	GL/EQ/Turb/01		Inhouse	Inhouse
00.	Gas Chromatograph	GL/EQ/GC/03	AA5/GLCPU/C /2223/083	17/01/2023	16/01/2024
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FOR W	ATER SAMPLE				
Report No.	GW/23/1476	Report Date 29/08/2023					
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar Taluka Pemern, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 24/08/2023	Environmental Condition of Lab		Temp®C 29.5		Humidity % 82	
Sampling Plan	GLPL/QF/7,3/06	Sampl	ing Procedure No.	APHA 1060			
Sampling Point	OWS Outlet						
Sampling Details	OWS Outlet Storm Water S	iample	Date of Collection	2	4/08/	2023	
Sample Collected by	GLPL Representative		Sample Received Or	1 2	25/08/2023		
Analysis Started On	25/08/2023	5/08/2023 Analysis Completed On 29/08/2023				2023	
Sample Container	Plastic Carboy + Glass Bot	tie	Sample Quantity	5	lit + 1	1 84	

Chemical Testing:

1		and the second se	Unit	Method
	pH	7.37	-	APHA 4500 H*
2	Turbidity	10.2	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	32	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	5	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	5	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit.	APHA 5520 B
7	Total Dissolved Solids 180ºC	25	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.089	mg/lit	APHA 3111 B
9	tran (Fe)	0.147	titigen	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BOL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

For GADARK LAB PVT, LTD.

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				Calibrati	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01	pH Meter	GL/EQ/pH/01		In house Calibration	
02	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/06/2023	28/06/2024
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024
04.	800 incubator	GL/EQ//02	AVI/2207014	29/06/2023	28/06/2024
05	Nephelometer	GL/EQ/Tu/b/01		Inhouse	Inhouse
06.	Gas Chromatograph	GL/EQ/GC/03	AA5/GLCPL/C /2223/083	17/01/2023	16/01/2024
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FOR WATE	R SAMPLE				
Report No.	GW/23/1477	GW/23/1477 Report Date 29/0				2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 24/08/2023	Per Dated 24/08/2023 Environmental Condition of Lab		Temp	°C	Humidity %	
Conservation and an and an and an and an	Part in some arrestances			29.5		82	
Sampling Plan	GLPL/QF/7.3/06	Sampling P	Procedure No.	APHA 1060		0	
Sampling Point	Air Side Outfall 2						
Sampling Details	Air Side Outfall 2 Storm Wi	iter Sample	Date of Collection	ion 24/		4/08/2023	
Sample Collected by	GLPL Representative	GLPL Representative Sample Receive		nd On	25/08/2023		
Analysis Started On	25/08/2023	25/05/2023 Analysis Completed On 29/08/2				9/08/2023	
Sample Container	Plastic Carboy + Glass Bot	tie	Sample Quardit	1	5	At + 1 Mt	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.01		APHA 4500 H*
2	Turbidity	12.8	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	32	sligm	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	7	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	7	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	23	mg/lit	APHA 2540 C
8	Manganese (Mn)	< 0.010	mg/lit	APHA 3111 B
9	Iron (Fe)	< 0.049	mgñit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

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BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

For GADARK LAB PVT. LTD.

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				Calibrati	on Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	1.4	In house Calibration		
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	900 Incubator	GL/EQ/I/02	AVV2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
06.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR W	ATER SAMPLE				
Report No.	GW/23/1478	GW/23/1478 Report Date 29/08/202					
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 24/08/2023	Environmental Condition of Lab		Temp ^{II} C 29.5		Humidity % 82	
Sampling Plan	GLPL/QF/7.3/06	Sampin	ng Procedure No.	APHA 1060		0	
Sampling Point	Storm Water LS - III						
Sampling Details	LS - III Storm Water Sample	le l	Date of Collection	24	V08/2	2023	
Sample Collected by	GLPL Representative	GLPL Representative Sample Received On			n 25/08/2023		
Analysis Started On	25/08/2023						
Sample Container	Plastic Carboy + Glass Bot	tie	Sample Quantity	5	11 + 1	t lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.42	-	APHA 4500 H*
2	Turbidity	98.3	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	63	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	111	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	46	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.047	mg/lit.	APHA 3111 B
9	Iron (Fe)	< 0.049	mg/lit	APHA 3111 B

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For GADARK LAB PVT. LTD.

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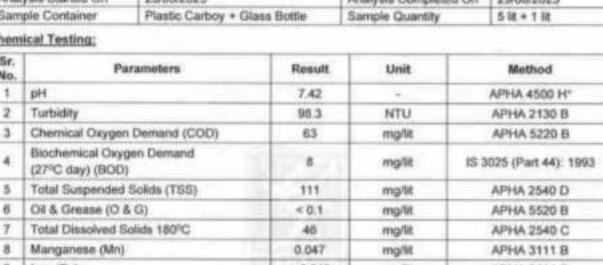
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				Calibrati	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	4	In house Calibration	
02.	Hot Air Oven	GL/EQ/O/01	AVV2207012	29/06/2023	28/06/2024
03.	COD Digester	GL/EQ/COD/01	AVV2207010	29/06/2023	28/06/2024
04.	BOD incubator	GL/EQ/1/02	AV1/2207014	29/06/2023	28/06/2024
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse
06.	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse



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TEST REPORT

	ANALYSIS REPORT	FORW	ATER SAMPLE				
Report No.	GW/23/1479	Report Date 29/05/2023					
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 24/08/2023		Environmental Condition of		D ^a qn	Humidity %	
Second Contraction		Lab		29.5		82	
Sampling Plan	GLPL/QF77.3/06	Sampli	ng Procedure No.	APHA 1060			
Sampling Point	Storm Water LS - IV						
Sampling Details	LS- IV Storm Water Sample	e	Date of Collection		24/08/2023		
Sample Collected by	GLPL Representative		Sample Received Or	0 25/08/2023		2023	
Analysis Started On	25/08/2023	25/08/2023 Analysis Completed On 29/06/2023				2023	
Sample Container	Plastic Carboy + Glass Bot	tie .	Sample Quantity		5 11 + 1	f lie	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.70		APHA 4500 H*
2	Turbidity	68.7	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	16	.mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27 ⁶ C day) (BOD)	6	mg/lit	15 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	36	tifigen	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	58	mg/lit	APHA 2540 C
8	Manganese (Mn)	< 0.010	mg/lit	APHA 3111 B
9	Iron (Fe)	< 0.049	filigm.	APHA 3111 B

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For GADARK LAB PVT. LTD.

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	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	A	In house Calibration		
02	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ//02	AV1/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01		Inhouse	Inhouse	
06.	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WATER	SAMPLE			
Report No.	GW/23/1480 Re		Report Date	29/08/	2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Faluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 24/08/2023	Environmental Condition of Lab		Temp °C 29.5	Humidity % 82	
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	ocedure No.	APHA 1060		
Sampling Point	Air Side Outfall - 3					
Sampling Details	Air Side Outfall - 3 Storm V	Nater Sample	Date of Colle	ction	24/08/2023	
Sample Collected by	GLPL Representative		Sample Rec	eived On	25/08/2023	
Analysis Started On	25/08/2023	25/08/2023		npleted On	29/08/2023	
Sample Container	Plastic Carboy * Glass Bot	the .	Sample Qua	ntity	514+118	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	8.61		APHA 4500 H*
2	Turbidity	38.2	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	40	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	7	mgAit	IS 3025 (Part 44): 1993
5	Total Suspended Solids (TSS)	14	mgñit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mgAit	APHA 5520 B
7	Total Dissolved Solids 180°C	38	mgAt	APHA 2540 C
8	Manganese (Mn)	0.021	mgñit	APHA 3111 B
9	Iron (Fe)	0.183	mg/lit	APHA 3111 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mgAit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

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For GADARK LAB PVT. LTD.

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			ST WWW W	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	-	In house	Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVU2207010	29/06/2023	28/06/2024	
04	BOD Incubator	GL/EQ/1/02	AV1/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01		Inhouse	Inhouse	
06.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024	
67	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Inhouse	



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TEST REPORT

	ANALYSIS REPORT	FOR WA	TER SAMPLE			
Report No.	GW/23/1451 Report Date		W23/1481 Report Date 29/0		29/08/	2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internatio	nal Airport, Dadachi	wadi I	Road, N	lagzar,
Order / Reference	ler / Reference As Per Dated 24/08/2023 Environmental Condition of Lab		nmental Condition of		mp PC	Humidity %
Constinue Plan	OLDE IDECT BUILE		Provide the		29.5	82
Sampling Plan	GLPL/QF/7.3/06	Sampan	g Procedure No	AP	HA 106	0
Sampling Point	LS I Storm Water Sample					
Sampling Details	Storm Water LS 1	1	Date of Collection		24/08/2023	
Sample Collected by	GLPL Representative	GLPL Representative \$		ceived On 25/08/2023		2023
Analysis Started On	25/08/2023 Analysis Completed C		QIN.	29/08/	2023	
Sample Container	Plastic Carboy + Glass Bot	tie 1	Sample Quantity		S bit + 1 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	5.67		APHA 4500 H*
2	Turbidity	41	NTU	APHA 2130 B
3.	Chemical Oxygen Demand (COD)	55	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	15 3025 (Part 44): 1983
5	Total Suspended Solids (TSS)	15	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mgilit	APHA 5520 B
7	Total Dissolved Solids 180°C	210	mg/lit	APHA 2540 C
8	Manganese (Mn)	0.086	mg/lit	APHA 3111 B
9	Iron (Fe)	< 0.049	mg@t	APHA 3111 B

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note:

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- 3. Samples will be preserved for a period 15 days from the delivery of Test Report.
- 4. Customer complaint register is available at taboratory.
- 5. Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.

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	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	æ	In house Calibration		
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ///02	AVI/2207014	29/06/2023	28/06/2024	
05.	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
06.	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sinthuturg - 416 525. Tel.: (02362) 223519 • E-mail: info@gadark.in • Webuite: www.gadark.in

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TEST REPORT

		AMBIENT AIR QUALITY M	MONITORING REPORT				
Report Date	03/1	0/2023					
Name of Client	M/s.	GMR GOA INTERNATION	AL AIRPORT LIMITED				
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.					
Sampling Plan	GLP	L/QF/7.3/06	Page No.	1 of 1			
Sample Collected By	GLP	GLPL Representative					
Month of Sampling	Sep	tember 2023					
		AMBIENT AIR	LOCATION				
Lo. Juon of Ambient Air Sta	tion	Mopa Boundry - Goa St	ate (G-A1)				
Average Ambient Tempera	ture (°C)	30.0	Average Humidity (%)	67			
Average Wind Speed (km/t	27)	62	Average Wind direction (Deg)	322			
Lothude		N 154551.1°	Longitude	E 73*56'32.4*			
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)			

Sr.	Date of	Burnette.	-			PAR	AMETERS				
No.	Sampling	Report No.	SPM	PMm	PMan	SO ₃	NOx	CO	CO2	Lead	VOC
1	04.09.2023	GA/23/2129	50,4	57.65	11.68	< 6.0	< 9.0	0,41	125.9	0.05	< 1.0
2	07.09.2023	GA/23/2142	39.1	51,28	11.23	< 6.0	< 9.0	0.37	116.2	0.06	< 1.0
3	11.09.2023	GA/23/2172	33.1	44.95	13.43	< 6.0	< 9.0	0.45	108.7	0.04	< 1.0
4	14.09.2023	GA/23/2183	34.5	52.21	14.51	< 6.0	< 9.0	0.59	133.9	0.02	< 1.0
5	18.09.2023	GA/23/2205	33.0	47.05	10.10	< 6.0	< 9.0	0.81	120.8	0.03	< 1.0
6	21.09.2023	GA/23/2216	30.3	50.56	12.85	< 6.0	< 9.0	0.45	111.2	0.05	< 1.0
7	25.09.2023	GA/23/2229	28.3	41,73	10.73	< 6.0	< 9.0	0.42	125.8	0.05	< 1.0
U	28.09.2023	GA/23/2240	26.4	39.16	12.72	< 6.0	< 9.0	0.25	112.4	0.05	< 1.0
	NAAQ5 LI	MITS*	-	100	60	80	80	2	-	1	-
	UNIT	5	µg/m ²	µg/m ³	µg/m ³	pg/m ³	µg/m ³	mg/m ²	ppm	µg/m ³	ppm
	METH	OD	(6.5142 (Part-6)	15 9182 (Pan XXIII) 2566	15 5182 (Pwt. XXEV) 2009	15 5182 (Piat 8) 2001	15 5182 (Part VI) 2905	35.5182 (Part X) 1806	OC Method	16.5162 (Part 838) 2004	EFA Muthod 18

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2. Test Report shall not be reproducent arcappi in full, without written approval of the laboratory

3. Samples will be preserved for a period 15 days from the delivery of Tast Report

4. Test Results rotate any to the conditions provailing at the time of sampling

6. Contorner complant register is available at tobleatory

6. Calibration avisits of the organization is used in monitoring and / or analysis is back side of analysis report

For GADARK LAB PVT. LTD. Storuk

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

AB KUDA

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		AMBIENT AIR QUALITY M	IONITORING REPORT					
Report Date	03/1	03/10/2023						
Name of Client	M/s	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	GLP	PL/QF/7 3/06	Page No.	1 of 1				
Sample Collected By	GLP	GLPL Representative						
Month of Sampling	Sep	tember 2023						
		AMBIENT AIR	LOCATION					
Le milion of Ambient Air Sta	tion	Shemecheadvan Goa S	Shemecheadvan Goa State (G-A2)					
Average Ambient Temperat	ture (°C)	30	Average Humidity (%)	85				
Average Wind Speed (km/h	w)	68	Average Wind direction (Deg)	338				
Latitude		N 15*42'06.1*	Longitude	E 73449'21.5"				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr. No.	Date of Sampling	Report No.	PARAMETERS								
			SPM	PMie	PMLs	SOa	NOx	CO	COz	Lead	VOC
	04.09.2023	GA/23/2128	50.3	52.77	13.10	< 6.0	< 9.0	0.38	114.2	0.04	< 1.0
2	07.09.2023	GA/23/2141	37.3	49.86	12.23	< 6.0	< 9.0	0.47	139.8	0.06	< 1.0
3	11.09.2023	GA/23/2171	26.4	45,71	10.89	< 6.0	< 9.0	0.42	120.9	0.04	< 1.0
4	14.09.2023	GA/23/2182	27.5	55.78	13.14	< 6.0	< 9.0	0.40	121.9	0.07	< 1.0
5	18.09.2023	GA/23/2204	25.7	43.84	11.77	< 6.0	< 9.0	0.93	194.6	0.03	< 1.0
6	21.09.2023	GA/23/2215	23.5	40.49	10.56	< 6.0	< 9.0	0.39	81.3	0.03	<1.0
7	25.09.2023	GA/23/2228	22.0	46.05	11.73	< 6.0	< 9.0	0.45	131.0	0.06	< 1.0
10	28.09.2023	GA/23/2239	21.0	40.94	12.02	< 6.0	< 9.0	0.30	113.7	0.02	< 1.0
NAAQS LIMITS *		-	100	60	80	80	2	-	1	-	
UNITS		pig/m ²	hðiw ₃	pg/m ³	µg/m ³	µg/m ³	mg/m ³	ppm	pg/m ³	ppm	
METHOD		(Part 4)	(5.5182 (Part XXIII) 2006	15 \$182 (Port. XXIV) 2006	15 S182 (Pw1.9) 2001	15.5182 (Part VI) 2006	15.5182 (Plat X) 1000	GC Method	15.5182 (Pat 3310 2004	EPA Absthead 18	

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Note

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Test Report shall not be reproduced except in full, without writees approval of the lateratory
 Somptex will be preserved for a period 15 days from the delivery of Test Report.

4. Test Results retain only to the conditions prevailing at the lime of savigling.

8. Oustomer complaint register is available at laboratory et in monifolding and 7 or analysis is back side of analysis report. E Culture on details of the inputs inf is ut

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

AB KUDA

CHECKED BY

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

CALIBRATION	DETAILS	OF	EQUIPMENT	USED	FOR	SAMPLING
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Ambient Instrument No. 8	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 936-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 476-A-23	07/01/2023	07/01/2024
Gasepue Sampler Sr. No. 471-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date 03/10/2023									
Name of Client	Client M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED								
Address of Client		DMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, IAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	L Representative							
Month of Sampling	Sep	September 2023							
		AMBIENT AIR	LOCATION						
Le tion of Ambient Air Sta	tion	Nagzar - Goa State (G-	A3)						
Average Ambient Tempera	ture (°C)	29.5	Average Humidity (%)	89					
Average Wind Speed (km/r	sr)	70.2	Average Wind direction (Deg)	302					
Latitude		N 15°45'37.3"	Longitude	E 73*53'14.22"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of Sampling	Report No.	PARAMETERS								
No.			SPM	PMitt	PMLA	SO ₂	NOx	CO	CO2	Lead	VOC
1	04.09.2023	GA/23/2121	58.4	55,71	14.43	< 6.0	< 9.0	0.74	144.5	0.04	<1.0
2	07.09.2023	GA/23/2134	42.6	50.62	12.60	<6.0	< 9.0	0.73	131.5	0.04	< 1.0
3	11.09.2023	GA/23/2164	35.4	62.07	14.22	<6.0	< 9.0	0.58	120.8	0.04	< 1.0
4	14.09.2023	GA/23/2175	40.6	65.45	13.02	<6.0	< 9.0	0.23	113.1	0.07	< 1.0
.6	18.09.2023	GA/23/2197	35.8	57.89	11.89	< 6.0	< 9.0	0.85	166.9	0.06	< 1.0
6	21.09.2023	GA/23/2208	33.6	52,09	12.23	< 6.0	< 9.0	0.97	104.2	0.06	< 1.0
7	25.09.2023	GA/23/2221	31.0	57.17	11.27	< 6.0	< 9.0	0.76	130.6	0.04	< 1.0
	28.09.2023	GA/23/2232	29,9	48,18	13.93	< 6.0	< 9.0	0.55	112.9	0.02	<1.0
NAAQS LIMITS *		-	100	60	80	80	2		1	-	
UNITS		µg/m ³	µg/m²	hðtu _s	µg/m ³	µg/m ³	mg/m³	ppm	µg/m ³	ppm	
METHOD		85.5182 (Pat 4)	10.5182 (Part XXIII) 2006	15 8182 (Part 3005) 2006	15.5182 (Part II) 2001	(Part VI) 2000	15.8182 (Put X) 1009	ISC Method	45.8182 (Part XX00 2004	EPA Motiod 16	

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Note :

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Customer complaint register is available at telecitary.
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For GADARK LAB PVT. LTD.

Starula

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

Ambient Instrument No. 1	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 847-DTJ-2019	08/10/2022	08/10/2023
Respirable Dust Sampler Sr. No. 2842-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6896-DTC-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		AMBIENT AIR QUALITY N	MONITORING REPORT					
Report Date	03/1	03/10/2023						
Name of Client	ht/s	GMR GOA INTERNATION	AL AIRPORT LIMITED					
Address of Client		DMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, IAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.						
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GLF	GLPL Representative						
Month of Sampling	Sep	tember 2023						
		AMBIENT AIR	LOCATION					
Lr tion of Ambient Air Sta	tion	Purva Casarvamem - G	ica State (G-A4)					
Average Ambient Tempera	ture (*C)	29.5	Average Humidity (%)	92				
Average Wind Speed (km/h	17	76	Average Wind direction (Deg)	300				
Latitude		N 15*41'41.9"	Longitude	E 73*50'18.6*				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of	-	-	PARAMETERS								
No.	Sampling	Report No.	SPM	PMn	PMss	SOr	NOx	CO	CO2	Lead	VOC	
1	04.09.2023	GA/23/2122	31.9	48.10	9.73	< 6.0	< 9.0	0.50	128.5	0.02	< 1.0	
2	07.09.2023	GA/23/2135	23.0	44.90	10.31	< 6.0	< 9.0	0.36	122.6	0.06	< 1.0	
3	11.09.2023	GA/23/2165	19.5	52.00	11.85	< 6.0	< 9.0	0.51	121.9	0.04	< 1.0	
4	14.09.2023	GA/23/2176	21.7	60.03	10.52	< 6.0	< 9.0	0.30	127.1	0.04	< 1.0	
5	18.09.2023	GA/23/2198	20.5	50,78	6,49	< 6.0	< 9.0	0.93	180.6	0.04	< 1.0	
6	21.09.2023	GA/23/2209	19,4	48.48	9.94	< 6.0	< 9.0	0.37	8.88	0.05	< 1.0	
7	25.09.2023	GA/23/2222	18.1	43.49	8.36	< 6.0	< 9.0	0.38	113.3	0.02	< 1.0	
P	28.09.2023	GA/23/2233	16.9	39.35	10.81	< 6.0	< 9.0	0.56	124.6	0.03	< 1.0	
1	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-	
	UNIT	5	ug/m ³	µg/m ¹	µg/m ³	pg/m ²	hiðim ₃	mig/m ³	ppm	hillius ₃	ppm	
METHOD		16 5182 (Pat 4)	15 8182 (Part XXIII) 2006	15 5142 (Pwt -X87v) 2006	25 5182 (Part II) 2001	15.6182 (Part VI) 2006	15 5182 (Part X) 1909	GC Mathed	15 1112 (Part 3004	EPA Mithod 18		

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For GADARK LAB PVT. LTD.

Stapulu

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

AB KUDA

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

	AMBIENT AIR QUALITY M	MONITORING REPORT					
03/1	3/10/2023						
M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED					
	INISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, ZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.						
GLE	PL/QF77.3/06	Page No.	1 of 1				
GLF	PL Representative	100					
Sep	stember 2023						
-10.00	AMBIENT AIR	LOCATION					
n	Khajne Amere Porscodem - Goa State (G-A5)						
e (*C)	30.0	Average Humidity (%)	86				
	70.5	Average Wind direction (Deg)	328				
	N 15*40'38.0*	Longitude	E 73*46'21.2*				
-	FPS (APM - 550) RDS (APM - 460) GPS (APM - 4						
		PARAMETERS					
	M/s ADI NAI GLI GLI	03/10/2023 M/s. GMR GOA INTERNATION ADMINISTRATIVE BLOCK, MO NAGZAR, TALUKA PERNEM, M GLPL/QF/7 3/06 GLPL Representative September 2023 AMBIENT AIR n Khajne Amere Porscode e (*C) 30.0 70.5 N 15*40/38.0* FPS (APM - 550)	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DA NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512. GLPL/QF/7.3/06 Page No. GLPL Representative September 2023 AMBIENT AIR LOCATION n Khajne Amere Porscodem - Goa State (G-A5) e (*C) 30.0 Average Humidity (%) 70.5 Average Wind direction (Deg) N 15*40/38.0* Longitude FPS (APM - 550) RDS (APM - 460) PARAMETERS				

Sr.	Date of	and the last				PARA	ME I END				
No.	Sampling	Report No.	SPM	PMni	PM2.6	501	NOx	CO	CO2	Lead	VOC
1	04.09.2023	GA/23/2123	7.9	28.98	8.40	< 6.0	< 9.0	0.35	125.5	0.03	< 1.0
2	07.09.2023	GA/23/2136	6.4	23.09	7.36	< 6.0	< 9.0	0.34	123.6	0.06	< 1.0
3	11.09.2023	GA/23/2166	5.9	18.90	5.78	< 6.0	<90	0.83	126.9	0.06	< 1.0
4	14.09.2023	GA/23/2177	8.2	24.94	8.69	< 6.0	< 9.0	0.35	113.6	0.05	< 1.0
5	18.09.2023	GA/23/2199	6.0	22.25	5.70	< 6.0	< 9.0	1.03	178.0	50,0	< 1.0
6	21.09.2023	GA/23/2210	4.5	19.26	7.07	≪6.0	< 9.0	0.68	139.7	0.06	< 1.0
7	25.09.2023	GA/23/2223	3.3	19.62	6.57	< 6.0	< 9.0	0.69	121.4	0.02	< 1.0
۰.	28.09.2023	GA/23/2234	4.1	22.10	7.28	< 5.0	< 9.0	0.47	122.3	0.02	< 1.0
1	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	
	UNIT	\$	µg/m ³	µg/m ³	pg/m ³	µg/m ²	µg/m ¹	mg/m ³	ppm	µg/m ³	ppm
	METH	00	15.5157 (Part 4)	15.5182 (Part XXIII) 2006	85.5182 (Part X80V) 2066	(Part II) 2001	15.5182 (Part VI) 2005	15.5182 (Part.30 1899	GC Method	15 5182 (Part XX9) 2004	EPA Method 18

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note :

1. The reasilits relate only to the samplins legted

2. Test Report shall not be reproduced except in 5.4, without written approval of the laboratory.

3. Samples will be preserved for a period 15 days from the delivery of Test Report.

4. Test Results relate only to the conditions prevailing at the time of sampling

Customer compliant register is available at laboratory.
 Calibration details of the equipment's used in monitoring and / tr analygic is begin give of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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CHECKED BY

Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Nolification No. 3221. dated 24th August 2021, valid upto 15th October 2023. ISO 9001 : 2015 Certified & ISO 45001 : 2016 Certified.

Ambient Instrument No. 3	Calibrated On	Calibration Due Date
Fine Particulate Sampler 5, No. 919-DTA-2020	18/02/2023	17/02/2024
Respirable Dust Sampler Sr. No. 2841-DTB-2020	19/02/2023	18/02/2024
Gaseoue Sampler Sr. No. 6904-DTB-2020	18/02/2023	17/02/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB. H-54, Additional M I.D.C. Kudal, Taluka - Kudal, District - Sinohodarg - 416 525. Tol. (02362) 223519 + E-mail: info@gadank.in + Website: www.gadark.in

OFF: 15. Hindustan Kohinoor Industrial Complex, L.B.S. Marg. Vietnoil (West), Mumbai - 85. Tel. (022) 2577 7069 / 2577 7070 / 2085 0001 + +91 93213 12367

TEST REPORT

AMBIENT AIR OUAL ITY MONITORING REPORT

		ANDERS AR WALLET	NORTI ORTRO PERSONT					
Report Date	03/1	03/10/2023						
Name of Client	M/s.	GMR GOA INTERNATION	AL AIRPORT LIMITED					
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.						
Sampling Plan	GLF	L/QF/7.3/08	Page No.	1 of 1				
Sample Collected By	GLF	GLPL Representative						
Month of Sampling	Sep	September 2023						
the first second s		AMBIENT AIR	LOCATION					
Location of Ambient Air Sta	ition.	Rajvil Wada Torxem - 0	Goa State (G-A6)					
Avorage Ambient Tempera	ture (°C)	29.5	Average Humidity (%)	89				
Average Wind Speed (km/	w)	68.9	Average Wind direction (Deg)	332				
Latitude	10	N 15*48'40.0*	Longitude	E 73*52'50.2'				
Instrument Used		FPS (APM - 550)	FPS (APM - 550) RDS (APM - 460)					

Sr.	Date of	There are also		PARAMETERS								
No.	Sampling	Report No.	SPM	PMI	PML	50;	NOx	co	CO1	Lead	VOC	
1	04.09.2023	GA/23/2126	28.6	48.49	11.98	< 6.0	< 9.0	0.36	125.3	0.03	< 1.0	
2	07.09.2023	GA/23/2139	25.6	44.12	10.81	< 6.0	< 9.0	0.59	132.2	0.06	<1.0	
3	11.09.2023	GA/23/2169	19.4	52.66	11.08	< 6.0	< 9.0	0.68	122.2	0.06	< 1.0	
4	14.09.2023	GA/23/2160	24.8	57.24	11.35	< 6.0	< 9.0	0.27	107.0	0.02	< 1.0	
5	18.09.2023	GA/23/2202	20.9	45.94	10.15	< 6.0	< 9.0	0.87	185.6	0.02	< 1.0	
6	21.09.2023	GA/23/2213	18.7	45.45	11.89	< 6.0	< 9.0	0.65	113.9	0.05	<1.0	
7	25.09.2023	GA/23/2226	17.5	41.02	10.44	< 6.0	< 9.0	0.63	134.7	0.01	<1.0	
8	28.09.2023	GA/23/2237	6.2	33.64	11.60	< 6.0	< 9.0	0.52	126.9	0.02	< 1.0	
0	NAAQS LI	MITS *		100	60	80	80	2	*	1	-	
	UNIT	S	µg/m ³	µg/m ³	µg/m ³	ug/m ²	hðius,	mg/m ³	ppm	µg/m ³	ppm	
METHOD		15.5182 (Part 4)	(555182 (Port XXXII) 2006	15 5182 (Pon XXIV) 2006	(Part II) 2001	(5.5162 (Part VI) 2005	(5 5182 (Part X) 1998	GC.Method	15-5182 (Part 3000 2004	EPA Method SR		

N.A.A.Q.S. - National Ambient Air Quality Standards

Note 1

1. The reputs relate any to the samples tested.

2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

3. Samples will be preserved for a period 15 days here the deliviny of Test Report.

Test Results relate only to the conditions prevailing at the time of sampling.
 Container complete register is evaluate at laboratory.

6. Calibration details of the equipment's used in manitolog and / or analysis is beck side of analysis report

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN 8. GAONKAR]

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

Ambient Instrument No. 6	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 935-DTA-2015	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 192-E-22	16/05/2023	15/05/2024
Gaseous Sampler Sr. No. 262-D-22	16/05/2023	15/05/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB - H-54, Additional M.I.D.C. Kudal, Takuka - Kudal, District - Sindhudurg - 416 525. Tat.: (02362) 223519 • E-mail: info@gadark.in • Website: www.gadark.in

OFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Viktiroli (West), Municai - 63. Tal. (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 93213 12367

RDS (APM - 450)

TEST REPORT

		AMBIENT AIR QUALITY	MONITORING REPORT						
Report Date	03/1	0/2023							
Name of Client	M/s	GMR GOA INTERNATION	IAL AIRPORT LIMITED						
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							
Sampling Plan	GLP	PL/QF/7.3/06	Page No.	t of 1					
Sample Collected By	GLF	L Representative							
Month of Sampling	Sep	tember 2023							
		AMBIENT AIR	LOCATION						
L. Ition of Ambient Air Sta	tion	Satarda - Maharashtra State (M-A1)							
Average Ambient Temperat	ture (°C)	30.0	Average Humidity (%)	85					
Average Wind Speed (km/h	m)	62.2	Average Wind direction (Deg)	298					
Latitude		N 15*43'01.3"	Longitude	E 73*46'00.2"					

FPS (APM - 550)

	The state of the s		-						1		
Sr.	Date of					PARA	METERS				
No.	Sampling	aling Report No.	SPM	PMis	PMLA	SOI	NOx	CO	CO2	Lead	VOC
1	04.09.2023	GA/23/2124	28.2	46.73	10.52	< 6.0	< 9.0	0.47	141.2	0.02	< 1.0
2	07.09.2023	GA/23/2137	26.8	46.45	9.02	< 6.0	< 9.0	0.51	129.4	0.05	< 1.0
3	11.09.2023	GA/23/2167	20.3	44.28	16.73	< 6.0	< 9.0	0.55	118.1	0.07	< 1.0
4	14.09.2023	GA/23/2178	22.0	48.86	9.44	< 6.0	< 9.0	0.38	122.6	0.07	≤ 1.0
5	18.09.2023	GA/23/2200	20.7	41.31	10.15	< 6.0	< 9.0	0.96	172.8	0.02	< 1.0
6	21.09.2023	GA/23/2211	18.8	35.35	9.94	<6.0	< 9.0	0.60	123.0	0.03	< 1.5
7	25.09.2023	GA/23/2224	17.5	34.01	7.07	< 6.0	<9.0	0.35	111.6	0.06	< 1.6
\odot	28.09.2023	GA/23/2235	16.4	31.99	8.82	< 6.0	< 9.0	0.77	133.3	0.03	< 1.5
	NAAQS LI	MITS *	+	100	60	80	80	2	-	1	
	UNIT	5	µg/m ³	µg/m ³	hð\uu ₃	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
	METH	ao	(5.5182 (Part 4)	15 5182 (Pan XXIII) 2006	15 5187 (Pwt XXIV) 2006	(0.5162 (Part II) 2001	15 5182 (P3rt VI) 2008	15.5182 (Part X) 1900	GC Method	15.5182 (Pad) 3000 2004	EPA Methol 18

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

Note:

Instrument Used

1. The results relate only to the samples haded.

Text Report shall not be reproduced except in fail, without written approxia of the later work;
 Samples will be preserved for a period 10 days from the delivery of Text Report.

4. Test Results raise any to the conditions provaling at the time of sampling

5. Customer complaint register is available at loboratory

6. Calibration details of the equipment's used in monitoring and / or analysis is both side of enalysis report. For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

GPS (APM - 411)

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



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GADARK LAB PVT. LTD.

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LAB.: H-54. Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525. Tel.: (02362) 223519 • E-mail: info@gadark.in • Websile: www.gadark.in

OFF: 15, Hindustan Kohinosr Industrial Complex, L.B.S. Marg, Vikhroll (West), Mumbai - 63. Tel: (022) 2577 7069 / 2577 7070 / 2085 6091 + 491 53213 12367

TEST REPORT

		I Box Tar I						
		AMBIENT AIR QUALIT	Y MONITORING REPORT					
Report Date	03/1	10/2023						
Name of Client	M/9	GMR GOA INTERNATI	ONAL AIRPORT LIMITED					
Address of Client			MOPA INTERNATIONAL AIRPORT, DA M, MOPA, NORTH GOA 403512.	DACHIWADI ROAD,				
Sampling Plan	GLP	GLPL/QF/7.3/06 Page No. 1 of 1						
Sample Collected By	GLF	1. Representative	1					
Month of Sampling	Sep	tember 2023						
		AMBIENT	AIR LOCATION					
Location of Ambient Air Sta	tion	Dingane - Maharash	tra State (M-A2)					
Average Ambient Tempera	ture (*C)	30.5	Average Humidity (%)	82				
Automat Mind Daned Bank	dia.	63	Automa Mind direction (Pena)	328				

Average Wind Speed (knvhr)	63	Average Wind direction (Deg)	328
Latitude	N 15*45 12.3*	Longitude	E 73*49'20.5*
Instrument Used	FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)

Sr.	Date of	Constant and				PAR	AMETERS	6			
No.	Sampling	Report No.	SPM	PM ₁₀	PMLs	SO ₂	NOx	CO	CO;	Lead	VOG
1	04.09.2023	GA/23/2127	9.0	28.00	7.11	< 6.0	< 9.0	0.54	138.1	0.02	< 1.0
2	07.09.2023	GA/23/2140	7.9	27.37	8,15	< 6.0	< 9.0	0.40	127.2	0.06	< 1.0
3	11.09.2023	GA/23/2170	6.1	24.50	9.48	< 6.0	< 9.0	0.60	118.5	0.05	< 1.0
4	14.09.2023	GA/23/2181	7.7	21.85	7.44	< 6.0	< 9.0	0.66	129.8	0.05	< 1.0
5	18.09.2023	GA/23/2203	6.9	19.39	5.61	< 6.0	< 9.0	0.74	168.4	0.05	< 1.0
6	21.09.2023	GA/23/2214	5.5	21.18	8.69	< 6.0	<9.0	0.48	99.7	0.05	< 1.0
7	25.09,2023	GA/23/2227	4.2	19.17	6.65	< 6.0	< 9.0	0.48	129.8	0.05	< 1.0
8	28 09 2023	GA/23/2238	3.0	19.43	8.40	< 6.0	< 9.0	0.24	102.7	0.03	< 1.0
J	NAAQS LI	MITS *	-	100	60	80	80	2	÷.	1	-
-	UNIT	5	pghn ²	µg/m ²	Hðuu ₃	µg/m ³	µg/m ³	mg/m ³	ppm	µg/m ³	ppm
	METH	OD	(5.5182 (Purt 4)	15.51027 (Part XXIII) 2000	15 6182 (Pael XXV) 2006	16.5192 (PwtR) 2001	(Part VI) 2006	15.5182 (Part X) 1005	CC Method	(5.0182 (Part 8330 2004	EPA Method 18

"N.A.A.Q.S. - National Ambient Air Quality Standards

Note : 1. The results values any to the samples tested

Test Report shall not be reproduced except in full, without within approval of the laboratory.

3. Spregras will be preserved for a period 15 days how the delivery of Test Report

4. Test Results relate only to the conditions previating at the time of sampting

5. Gaussiver companie register is available at televisiony.

6. Calibration details of the appropriates used in mentioning and / or analysis is back side of analysis report.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525. Tet. (02362) 223519 • E-mail: info@godark.in • Website: www.gadark.in

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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT							
Report Date	03/1	03/10/2023								
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED							
Address of Client			PA INTERNATIONAL AIRPORT, DA MOPA, NORTH GOA 403512.	DACHIWADI ROAD,						
Sampling Plan	GLF	PL/QF/7.3/06	Page No.	3 of 1						
Sample Collected By	GLF	PL Representative								
Month of Sampling	Sep	tember 2023								
		AMBIENT AIR	LOCATION							
L tion of Ambient Air Sta	tion	Netarde - Maharashtra	State (M-A3)							
Average Ambient Tempera	ture (°C)	30.0	Average Humidity (%)	86						
Average Wind Speed (km/t	w)	61.1	Average Wind direction (Deg)	267						
Latitude		N 15*46 11.7*	Longitude	E 73*53'47.0"						
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)						

2 07.09.2023					PAR	AMETERS	(
	Sampling	Report No.	SPM	PMre	PM2.8	SO2	NOR	CO	COz	Lead	VOC
.1	04.09.2023	GA/23/2125	7.0	22.29	8.73	< 6.0	< 9.0	0.46	126.2	0.01	< 1.0
2	07.09.2023	GA/23/2138	5.7	18.81	5.61	< 6.0	< 9.0	0.35	116.6	0.07	< 1.0
3	11.09.2023	GA/23/2168	4.7	17.39	7.88	< 6.0	< 9.0	0.78	134.9	0.01	< 1.0
4	14.09.2023	GA/23/2179	5.5	23.40	6.57	< 6.0	< 9.0	0.45	108.5	0.03	< 1.0
5	18.09.2023	GA/23/2201	4.5	16.16	5.20	< 6.0	< 9.0	0.60	152.6	0.06	< 1.0
6	21.09.2023	GA/23/2212	3.5	20.10	7.66	< 6.0	< 9.0	0.75	132.7	0.04	< 1.0
7	25.09.2023	GA/23/2225	2,4	14.58	5.32	< 6.0	< 9.0	0.59	133.2	0.05	<1.0
*	28.09.2023	GA/23/2236	2.0	18,19	6.57	< 6.0	< 9.0	0.45	107.0	0.03	< 1.0
2	NAAQS LI	MITS *	-	100	60	80	80	2	-	- 1	
	UNIT	s	sig/m ⁸	µg/m ³	hðjur ₅	µg/m ¹	µg/m ¹	mg/m ¹	ppm	µg/m ³	ppm
	METH	00	15.5162 (Part 4)	15 5182 (Part XX88) 2008	15 5182 (Part XXXV) 2006	(5.5182 (Part 16) 2001	15 5182 (Pan VI) 3008	15 5182 (Part X) 1995	GIC Method	10 3312 (Pat 330) 2564	EPA Method 18

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Note (

1. The raturts relate only is the samples leated.

2. Test Report shall not be reproduced except in full, without written approval of the laboratory.

3. Samples will be preserved for a period 18 days from the delivery of Test Report.

4 Test Rosults when any to the conditions prevaiing at the time of sampling 6 Cardioner completel register is available at laboratory.

Calibration details of the inquipment's used in monitoring and / or analysis is built side of analysis report.

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Ambient Instrument No. 5	Calibrated On	Calibration Due Date
Fine Particulate Sampler S. No. 942-DTA-2020	19/02/2023	18/02/2024
Respirable Dust Sampler Sr. No. 477-A-23	07/01/2023	07/01/2024
Gaseoue Sampler Sr. No. 470-L-22	07/01/2023	07/01/2024
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB. H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416.525 Tol.: (02367) 223519 + E-mail: info@godark.in + Website: www.gadark.in

QFF. 15, Hindustan Kohinour Industrial Complex. L.B.S. Marg. Vikhioli (West), Mumbal - 83. Tel. (022) 2577 7069 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

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-	e of issue		03/10	and the second second second					_		_		_
بالمعاولة	ne of Client		and and the state of the	states in the second second second second	and the second second	of the second second second	AL AIRPORT	shine president and	darlas recubição name				
Add	ress of Clien	1					OPA INTERNA RNEM, MOPA					HIWA	DI
San	pling Plan		GLPL	/QF/7.3/6	36		Sampling Proc	edure	No.		GLPL	JSOP/A	A/17
San	ple Collecte	d By	GLPL	Represe	intative								
and series of	Contraction of the local distance	enseter		AMBIEN	T AIR	NOISE P	DLLUTION MO	DNITO	NG	-	-		
Sr.	BEARLINE BEAL		Station	Zone	Sampl	ing Location	Dep	Tims N in dili(A)		Nig	ht Time H		
ap.	consolution							Lon	Linet	Log	Logo	Lenn	Log
1	06.09.2023		3/2143	GMI	1	Mapiè Bose	way year	31.5	77.6	54.2	-30.0	63.0	-81,2
2	06 00 2023	and the second second	3/2144	G-N2	1	Shernecha	sizveri .	37.0	85.3	63.9	34.0	64.4	43.1
3	06.09.2023	a constant and a significant	3(2132	G-N3	G.	Nagzier		36.2	87.1	58.5	31.0	75.7	49.7
4	06.09.2023	and the second	37133	G-N4	11	Purve Cas	arvament	30.6	79.6	52.8	30.2	74.6	43.0
5	11.00.2023	and a fair and	3/2173	G-N5	R	Chardel		30.9	85.5	53.0	-30.2	71.2	44.2
-0	12.08.2025		3/2184	G-NB	R	and the second second second	ere Porscadien	30.5	75.4	-44.2	30.1	65.3	36.7
T	11.06.2023		3/2174	G-N7	R	Warkhand	Tar China -	36.8	#7.5	53.0	30.3	67,4	44.1
8	15.09.2023		3/2188	G-NIS	C	Rayel Wad	and the second se	30.2	90.9	55.9	30.4	54.8	43.2
9	15.09.2023	GAG	3/2189	G-NB	C	Village Part Tambusani	- Mapa - Movern	30.5	75.4	45.9	33.6	62.7	36.0
10	12.09.2023	GAG	3/2185	MAN1	R	Satarda.		30.5	77.A	46.2	30.4	67.3	40.3
11	05.09.2023	UA/2	3/2130	M-N2	R	Dingane		20.7	89.9	63.3	30.Z	71.2	43.8
12	05.09.2023	DA/2	101101	M-N3	12	Netarde		30.0	82.3	53.4	30.2	61.7	40.3
	Area Code			Category of Area Linnits in dB(A) Leg Day Time Night Time									
-1	(A)		Indus	Industrial Area. (f)			75	70					
1	(81)		Com	norcial Are	a (C)		65	55					
1	(G)		Resid	Iential Area	(F0)		55		-45				
1	(D)		Silen	te Zone (8	53		50		40				
8	the second s	and a grant strategy of	and the state of the	Address of the second second	a second s		t time is rechone sound in decibe	and the second	Construction of the second	the share and the share	a selection a result of the select	The second second second	lieazing
2]	A 'docibel' is	a sinit i	n which r	toide is me	iesured.	Stronds PDRVI	1996.0	2.50.00		0.00000	sall a se av	0.1122/00/00	00/11/20
41	characteristics	s of the	human e	0.07		Sec. 1	issurement of no	ise and o	arrespo	eds to fri	rdriency	response	
5]	Leg It is the o	energy.	mean of	the noise	lawel over	r a specified	t period.		_				_
t Ta ta ta ta ta	e resulta milita pr of Report shall no of Nesulta milate etomor complaine	tibe rep only to the require of the req LAB 1	rbiluciód a Ne condita r is exaita algoriant a	except in tulk ong prevolitin bio at tubora salaid in mor	ng al the f dury.	ing of sample	of of the laboratory 10 10 Block links of an		e.	011	2		
	THORISED S	HONA			(ANG KUDI	10			CHE	CKED	BY	

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

Equipment Name	Calibrated On	Calibration Due Date		
Noise Level Mater Sr. No. 546176	23/06/2023	23/06/2024		



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE							
Report No.	GW/23/1629		Report Date		21/09/2023					
Client Name & Address	Administrative Block	SMR Goa International Airport Limited, Idministrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512								
Order / Reference	As Per Dated 15/09/2023	Environme	ntal Condition of Lab	ab Temp °C 24.6		Humidity % 45				
Sampling Plan	GLPL/QF/7.3/06	Sampling #	Procedure No.	-	A 1060					
Sampling Point	WTP RO		Contraction of the second							
Sampling Details	WTP RO Inlet Wate	r Sample	Date of Collection		15/09/	2023				
Sample Collected by	GLPL Representati	ve	Sample Received	On	16/09/2023					
Analysis Started On	16/09/2023		Analysis Completed C		21/09/	2023				
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity		4就+	1.25 lit				

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.26		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.3	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	16,13	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	54	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	13.09	mg/lit	250.00	APHA 4500 CI-8
9	Sulphate as SO ₄	0.75	mg/lit.	200.00	APHA 4500 SOv ² E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SF
11	Total Hardness as CaCO ₃	22	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH5
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

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TEST REPORT

Report No.	GW/23/1629	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Airpo Administrative Block, Mopa In Taluka Pernem, Mopa, North	ternational Airport, Dadachiw	adi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO1	0.050	mg/lit	45.00	APHA 4500 NO3 B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN ⁻ D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	7.21	mg/lit	75,00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.01	mg/lit	1.00	APHA 3120 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	0.97	.mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mgñit	0.05	APHA 3120 B
29	Mercury as Hg.	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	< 0.02	mg/lit:	5.00	APHA 3120 B
31	Sodium as Na	3.4	mg/iit	Not Specified	APHA 3500 Na B
32	Potassium as K	1.4	mg/lit	Not Specified	APHA 3500 K 8
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1629	Report Date	21/09/2023			
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023			
Analysis Started On	15/09/2023	Analysis Completed On	21/09/2023			
Client Name & Address						

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37%C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 mi sample	APHA 9221 - B
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 mi sample	APHA 9221 - G

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Note:

- Results relate only to the sample tested.
- Test Report shall not be reproduced except in full, without written approval of the laboratory.
- Samples will be preserved for a period 15 days from the delivery of Test Report.
- 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.



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Equipment Calibration Details

Sr. No.				Calibration Details	
	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In house	Calibration
02	Turbidity Meter	GL/EQ/Turb/01		In house	Calibration
03	Analytical Balarice	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/06/2024
04.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	26/06/2024
05,	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06.	ICP-OES	GL/EQ/ICP/01		In house	Calibration
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AV1/2207006	29/06/2023	26/06/2024
68	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVV2207016	29/08/2023	28/06/2024
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/09/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024
51.	Water Bath	GL/EQ/WE/01	AVI/2207017	20/06/2023	28/06/2024



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TEST REPORT

	ANALYSIS RE	PORT FOR W	ATER SAMPLE			
Report No.	GW/23/1630		Report Date	21/	/09/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					car,
Order / Reference	As Per Dated 15/09/2023	Environmental Condition of Lab		Construction of the	np ⁰C 4.6	Humidity % 45
Sampling Plan	GLPL/QF/7.3/06	Sampling	Procedure No.	APHA 1060		
Sampling Point	PTBLO		To the second second			
Sampling Details	PTB LO Water Founta	in Sample	Date of Collection		15/08/2023	
Sample Collected by	GLPL Representative		Sample Received (Qn	n 16/09/2023	
Analysis Started On	16/09/2023		Analysis Completed O		On 21/09/2023	
Sample Container	Plastic Carboy + Glas	s Bottle	Sample Quantity	4 lit + 1.25 lit		+ 1.25 lit

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	6.80		65-85	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	-	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	6.05	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	20	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	7.05	mg/lit	250.00	APHA 4500 CI-8
9	Sulphste as SO ₄	0.25	mg/lit	200.00	APHA 4500 SO47 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SPF
11	Total Hardness as CaCO ₂	8	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1630	Report Date	21/09/2023			
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023			
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023			
Client Name & Address	Administrative Block, Mopa	3MR Goa International Airport Limited, Idministrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512				

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	< 0.001	mg/lit	45.00	APHA 4500 NO2 B
16	Fluoride as F	< 0.001	mgAit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/Sit	0.05	APHA 4500 CN ⁻ D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

-	1 44 44 44		11.1.8%	0.07	10111 1100 0
20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	til\gm	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	1.60	mgäit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.01	mg/lit	1.00	APHA 3120 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	0.97	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.017	mg/lit	5.00	APHA 3120 B
31	Sodium as Na	0.85	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	0.96	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1630	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
34	Total Coliform at 37°C for 48 hrs.	C for Absent MPN Shall not be detectable in Index/100ml any 100 ml sample		APHA 9221 - E	
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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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.



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Equipment Calibration Details

	Equipment Name	Contraction and	1.000	Calibration Details	
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In house	Calibration
02	Turbidity Moter	GL/EQ/Turb/01		In house	Calibration
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/06/2024
04.	Hot Air Oven	GL/EQ/0/01	AVV2207012	29/06/2023	28/06/2024
05	U V Spectrophotometer	GL/EQ/UV/01	AA5/GLPL/C/22 23/082	15/10/2022	14/10/2023
06.	ICP - OES	GL/EQ//CP/01		In house Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	29/06/2023	28/06/2024
.80	Microbiological Incubator (44.5 ° C)	GUEQ/I-03	AVI/2207016	29/06/2023	28/06/2024
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/09/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AV1/2207004	29/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024



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TEST REPORT

	ANALYSIS	REPORT FOR WA	TER SAMPLE	-			
Report No.	GW/23/1631		Report Date	2	1/09/	2023	
Client Name & Address	Administrative Bloc	onal Airport Limited k, Mopa Internation opa, North Goa - 40	al Airport, Dadac	hiwadi Ro	ad, N	lagzar,	
Poder / Defenses	As Per Dated	Environmental Condition of Lab		Temp	°C	Humidity %	
Order / Reference	15/09/2023			24.6		45	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060			
Sampling Point	Top's Office						
Sampling Details	Top's Office Disper Sample	Top's Office Dispenser (PTB) Water Sample		Date of Collection		15/09/2023	
Sample Collected by	GLPL Representative		Sample Received On		16	6/09/2023	
Analysis Started On	16/09/2023		Analysis Completed On		2	1/09/2023	
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity		4	献 + 1 25 粒	
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Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	6.79	(ð.)	6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1,00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 8
5	Odour	Agreeable		Agreeable	APHA 2150 8
6	Total Alkalinity	4.03	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	18	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	9.07	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO4	0.25	mg/lit	200.00	APHA 4500 SOv2 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SFF
11	Total Hardness as CaCO ₂	6	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	ing/lit	0.50	APHA 5520 B

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TEST REPORT

Report No.	GW/23/1631	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/l/t	0.20	APHA 4500 CI B
15	Nitrate as NOs	0.004	mg/lit	45.00	APHA 4500 NO2 B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit.	0.05	APHA 4500 CN ⁻ D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	0.80	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.01	mg/lit	1.00	APHA 3120 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 8
27	Magnesium as Mg	1.60	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	15 3025 (Part 2)
30	Zinc as Zn	0.012	ing/lit	5.00	APHA 3120 B
31	Sodium as Na	0.54	shgm	Not Specified	APHA 3500 Na B
32	Potassium as K	1.0	mg/lit	Not Specified	APHA 3500 K 8
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1631	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Gos International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadad	hwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 379C for 48 hrs.	APSING THE REPORT OF THE REPOR		APHA 9221 - E	
35	E.Coli at 44.5% for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 mi sample	APHA 9221 - G

End

For GADARK LAB PVT. LTD.

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Note:

- 1. Results relate only to the sample tested.
- 7. Test Report shall not be reproduced except in full, without written approval of the laboratory.
- Samples will be preserved for a period 15 days from the delivery of Test Report.
- 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.



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Equipment Calibration Details

		-		Calibrati	ion Details
Sr. No.	Equipment Name	Equipment Certificate Id No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In house	Calibration
02	Turbidity Moter	GL/EQ/Turb/01	-	In house	Calibration
03	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/06/2024
04	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
05.	ICP - OES	GL/EQ/ICP/01		In house Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	29/06/2023	28/06/2024
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AV1/2207016	29/06/2023	28/06/2024
99	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/09/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AV0/2207004	29/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024



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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

	ANALYSIS	REPORT FOR WA	TER SAMPLE			
Report No.	GW/23/1632		Report Date	2	1/09/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 15/09/2023	Environmental Condition of Lab		Temp a 24.6		
Convelleg Dine	GLPL/QF/7.3/06	and the according to the		and the second se	45	
Sampling Plan	and the second second second second	Sampling Proces	oune No.	APHA 1	000	
Sampling Point	Admin Ground Floo	M.			S	
Sampling Details	Admin Ground Floo Sample	Admin Ground Floor Fountain Water Sample		Date of Collection		
Sample Collected by	GLPL Representative		Sample Received On		16/09/2023	
Analysis Started On	16/09/2023		Analysis Completed On		21/09/2023	
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.25	14	6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	14.11	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	56	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	12.09	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO4	1.00	mg/lit	200.00	APHA 4500 SO42 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S2F
11	Total Hardness as CaCO ₃	22	ing/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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Report No.	GW/23/1632	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No,	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14:	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NOs	0.040	ing/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	5.61	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.01	mg/lit	1.00	APHA 3120 B
26	Lead as Pb	< 0.01	mg/lit.	0.01	APHA 3120 B
27	Magnesium as Mg	1.95	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mgdit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.013	mg/lit	5.00	APHA 3120 B
31	Sodium as Na	2.5	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	1.6	mg/lit	Not Specified	APHA 3500 K 8
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

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TEST REPORT

Report No.	GW/23/1632	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37°C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - 8
35	E.Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

End

For GADARK LAB PVT. LTD.

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Note:

- 1. Results relate only to the sample tested.
- 2. Test Report shall not be reproduced except in full, without written approval of the laboratory.
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- 4. 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.



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Equipment Calibration Details

Şr. No.	Equipment Name	1.4.4	1 m 1	Calibration Details	
		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In house	Calibration
02	Turbidity Meter	GL/EQ/Turb/01		in house	Calibration
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/06/2024
04.	Hát Air Öven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06.	ICP - OES	GL/EQ/ICP/01		In house	Calibration
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207005	29/06/2023	28/06/2024
06.	Microbiological Incubator (44.5 * C)	GL/EQ/I-03	AV1/2207016	29/06/2023	26/06/2024
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/09/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/08/2024
11.	Water Bath	GL/EQ/WB/01	AV0/2207017	29/06/2023	28/06/2024



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TEST REPORT

	ANALYSIS	REPORT FOR WA	ATER SAMPLE			
Report No.	GW/23/1633		Report Date	21	/09/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated	Environmental Condition of		Temp R	C Humidity %	
Order / Melerence	15/09/2023	Convertingental	Environmental Condition of Cate		45	
Sampling Plan	GLPL/QF/7.3/06	Sampling Proce	edure No.	APHA 1060		
Sampling Point	Café Gox					
Sampling Details	Café Gox Water Fo	untain Sample	Date of Collection		15/09/2023	
Sample Collected by	GLPL Representati	GLPL Representative		Sample Received On		
Analysis Started On	16/09/2023		Analysis Completed On		21/09/2023	
Sample Container	Plastic Carboy + G	tass Bottle	Sample Quantity		4 1社 + 1.25 1社	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.32		6.5-8.5	APHA 4500 H*
2	Turbidity	0.2	NTU	1.00	APHA 2130 B
3	Taste	Agreeable		Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable	-	Agreeable	APHA 2150 B
6	Total Alkalinity	14.11	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	50	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	14.10	mg/lit	250.00	APHA 4500 CF-B
9	Sulphate as SO4	0.75	mg/lit	200.00	APHA 4500 SO/2 E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SPF
11	Total Hardness as CaCO ₃	22	mg/lit.	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit.	0.50	APHA 4500 NHs
13	Mineral Oil	< 0.1	mgāit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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	TEST	REPORT	
Report No.	GW/23/1633	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Gos International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nii	mg/lit.	0.20	APHA 4500 CI B
15	Nitrate as NO1	0.022	mg/lit	45.00	APHA 4500 NO2 8
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - B
23	Calcium as Ca	7.21	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.01	mg/lit	1.00	APHA 3120 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	0.97	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.015	mgñit	5.00	APHA 3120 B
31	Sodium as Na	2.3	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	1.4	mg/lit	Not Specified	APHA 3500 K 8
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1633	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadad	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No,	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method	
34 Total Coliform at 37%C for 48 hm.		Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B	
35	E Coli at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G	

End

For GADARK LAB PVT. LTD.

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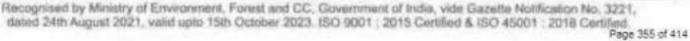
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- 4. Customer complaint register is available at laboratory
- Calibration details of the equipment's used in monitoring and / or analysis is back side of analysis report.



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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.	Turbidity Meter	GL/EQ/Turb/01		In house Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVV/2207023	29/06/2023	28/06/2024
04.	Hot Air Oven	GL/EQ/0/01	AV1/2207012	29/06/2023	28/06/2024
05	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06	ICP - OES	GL/EQ/ICP/01		In house Calibration	
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AV#2207006	29/06/2023	28/06/2024
68	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	29/06/2023	28/08/2024
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/09/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AV1/2207004	29/06/2023	28/08/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024



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TEST REPORT

	ANALYSIS	REPORT FOR WATER	R SAMPLE			
Report No.	GW/23/1635 Rep		Report Date	21/09	21/09/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mops International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512				lagzar,	
Order / Reference	As Per Dated 15/09/2023	Environmental Con	dition of Lab	Temp %C 24.6	Humidity % 45	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	Dog Kennal	and the supervision of the super		Contraction of the second		
Sampling Details	Dog Kennal Water Fountain (CISF) Sample		e Date of C	Date of Collection		
Sample Collected by	GLPL Representative		Sample F	Sample Received On		
Analysis Started On	16/09/2023		Analysis	Analysis Completed On		
Sample Container	Plastic Carboy + Glass Bottle		Sample 0	Sample Quantity		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.36		6.5-6.5	APHA 4500 H*
2	Turbidity	0.3	NTU	1.00	APHA 2130 B
3	Tasto	Agreeable	(*)	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	12.09	mg/lit.	200.00	APHA 2320 B
7	Total Dissolved Solid	52	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	13.09	mg/lit	250.00	APHA 4500 CI-8
9	Sulphate as SO4	1.00	mg/lit	200.00	APHA 4500 SOvª E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 SFF
11	Total Hardness as CaCOs	20	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NHo
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT						
Report No.	GW/23/1635	Report Date	21/09/2023			
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023			
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023			
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	ichiwadi Road, Nagzar,			

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nit	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₂	0.030	mg/lit	45.00	APHA 4500 NO ₂ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	mg/lit	0.001	APHA 5530-B.C
18	Cyanide	+00.01	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detorgent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	0.011	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as 8	< 0.01	mg/lit	0.50	APHA 4500 8 - 8
23	Calcium as Ca	6.41	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.01	mg/lit	1.00	APHA 3120 B
26	Lead as Pb	< 0.01	mg/lit	0,01	APHA 3120 B
27	Magnesium as Mg	0.97	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/tit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/lit	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.012	mg/lit	5.00	APHA 3120 B
31	Sodium as Na	2.1	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	1.2	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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

TEST REPORT

Report No.	GW/23/1635	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34	Total Coliform at 37%C for 48 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 mi sample	APHA 9221 - B
35	E. Coli at 44.5% for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G

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Note:

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



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		2.2. 5		Calibration Details	
Sr. No.	Equipment Name	Name Equipment Certificate Id No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/ED/pH/01	Æ	In house	Calibration
02.	Turbidity Meter	GL/EQ/Turb/01		In house (Calibration
03.	Analytical Balance	GL/EQ/BAL/03	AVV2207023	29/06/2023	28/05/2024
04.	Hot Air Oven	GL/EQ/O/01	AVI/2207012	29/06/2023	28/06/2024
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06.	ICP - OES	GL/EQ/ICP/01	-	In house	Calibration
07.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	29/06/2023	28/06/2024
08.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVV2207018	29/06/2023	28/06/2024
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	15/09/2023	15/02/2024
10	Autoclave	GL/EQ/A/01	AV1/2207004	28/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024



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TEST REPORT

	ANALYSIS	REPORT FOR WA	TER SAMPLE		
Report No.	GW/23/1636		Report Date	21	/09/2023
Client Name & Address	GMR Goa Internatio Administrative Bloc Taluka Pernem, Mo	k, Mopa Internation	al Airport, Dadad	hiwadi Ros	id, Nagzar,
Outor / Reference	As Per Dated	Environmental Condition of Lab		Temp %	C Humidity %
Order / Reference	15/09/2023			24.6	45
Sampling Plan	GLPUQF/7.3/06	Sampling Procedure No.		APHA 1060	
Sampling Point	First Responder				
Sampling Details	First Responder (Q Water Fountain	First Responder (QRT) ASG Mopa		Date of Collection	
Sample Collected by	GLPL Representative		Sample Received On		16/09/2023
Analysis Started On	16/09/2023		Analysis Completed On		21/09/2023
Sample Container	Plastic Carboy + Gl	ass Bottle	Sample Quantity		4 lit + 1.25 lit

Chemical Testing:

Sr. No,	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
1	pH	7.38	. 4	6.5-8.5	APHA 4500 H*
2	Turbidity	0.3	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	1	Agreeable	APHA 2160 B
4	Colour	< 1.0	Colour Unit	5.0	APHA 2120 B
5	Odour	Agreeable		Agreeable	APHA 2150 B
6	Total Alkalinity	14.11	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	54	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	12.09	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO4	1.25	mg/lit	200.00	APHA 4500 SO# E
10	Sulphides	< 0.001	mg/lit	0.05	APHA 4500 S ² F
11	Total Hardness as CaCOs	22	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH:
13	Mineral Oil	< 0.1	mg/lit	0.50	APHA 5520 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1636	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pemern, Mopa, Nor	International Airport, Dada	chiwadi Road, Nagzar,

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Requirement (Acceptable Limits as per IS 10500:2012)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 Ci B
15	Nitrate as NO2	0.026	mg/lit	45.00	APHA 4500 NO ₃ B
16	Fluoride as F	< 0.001	mg/lit	1.0	APHA 4500 F-
17	Phenolic Compound	< 0.001	.mg/lit	0.001	APHA 5530-B,C
18	Cyanide	< 0.001	mg/lit	0.05	APHA 4500 CN D
19	Anionic Detergent	< 0.001	mg/lit	0.2	APHA 5540 - C

Metal Analysis:

20	Aluminium as Al	< 0.03	mg/lit	0.03	APHA 3120 B
21	Arsenic as As	< 0.01	mg/lit	0.01	APHA 3120 B
22	Boron as B	< 0.01	mg/lit	0.50	APHA 4500 B - 8
23	Calcium as Ca	7.21	mg/lit	75.00	APHA 3500 Ca B
24	Cadmium as Cd	< 0.002	mg/lit	0.003	APHA 3120 B
25	Iron as Fe	< 0.01	mg/lit	1.00	APHA 3120 B
26	Lead as Pb	< 0.01	mg/lit	0.01	APHA 3120 B
27	Magnesium as Mg	0.97	mg/lit	30.00	APHA 3500 Mg B
28	Chromium as Cr	< 0.01	mg/lit	0.05	APHA 3120 B
29	Mercury as Hg	< 0.001	mg/ht	0.001	IS 3025 (Part 2)
30	Zinc as Zn	0.019	mg/lit	5,00	APHA 3120 B
31	Sodium as Na	2.9	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	1.7	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.01	mg/lit	0.05	APHA 3120 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/1638	Report Date	21/09/2023
Order / Reference	As Per Dated 15/09/2023	Sample Received on	16/09/2023
Analysis Started On	16/09/2023	Analysis Completed On	21/09/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Parnem, Mopa, Nort	International Airport, Dadac	hiwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Parameters Result Unit		IS desirable Limit (As per IS 10500)	Method	
34 Total Coliform at 37°C for A		Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - B	
35	E Coil at 44.5°C for 24 hrs.	Absent	MPN Index/100ml	Shall not be detectable in any 100 ml sample	APHA 9221 - G	

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				Calibrati	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In house	Calibration
02.	Turbidity Meter	GL/EQ/Turb/01		In house Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	29/06/2023	28/08/2024
04	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
05.	U V Spectrophotometer	GL/EQ/UV/01	AAS/GLPL/C/22 23/082	15/10/2022	14/10/2023
06.	ICP - OES	GUEQ/ICP/21	-	In house	Calibration
07.	Microbiological Incubator (37 * C)	GL/EQA-01	AV1/2207006	29/06/2023	28/06/2024
OB.	Microbiological Incubator (44.5 ° C)	GL/EQ/1-03	AVI/2207016	29/06/2023	28/06/2024
09.	Laminar Air Flow	GLAF/01	TECH/VAL/20 23/02/69	15/09/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	29/06/2023	28/06/2024
11.	Water Bath	GL/EQ/WB/01	AVI/2207017	29/06/2023	28/06/2024



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LAB : H-54. Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525. Tal. : (02362) 223519 • E-mail : info@gstark.in • Website : www.gadark.in

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TEST REPORT

	ANALYSIS REPORT	FOR WATE	R SAMPLE			
Report No.	GW/23/1634		Report Date	21/09/	2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internationa	al Airport, Dadachi	wadi Road, N	lagzar,	
A 40.00 A	As Per Dated 15/09/2023	Environmental Condition of Lab		Temp *C	Humidity %	
Order / Reference	As Per Dated 15/04/2023			30.1	76	
Sampling Plan	GLPU/QF/7.3/06	Sampling I	Procedure No.	APHA 1060		
Sampling Point	STP Inlet					
Sampling Details	STP Inlet Water Sample	Da	ate of Collection	15/09/	2023	
Sample Collected by	GLPL Representative	Sa	Sample Received On		2023	
Analysis Started On	16/09/2023	Ār	alysis Completed	On 21/09/	2023	
Sample Container	Plastic Carboy + Glass Bot	tie Sa	imple Quantity	5 18+	1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	6.48	-	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	1832	mg/fit.	APHA 5220 B
3	Biochemical Oxygen Demand (27 ^{ti} C day) (BOD)	667	mg/lit	IS 3025 (Part 44)
4	Total Suspended Solids (TSS)	98	mg/lit	APHA 2540 D
5	Oil & Grease (O & G)	7	mg/iit	APHA 5520 B
6	Ammonia	93.52	mg/lit	APHA 4500 NH ₂ B&C
7	Total Nitrogen (as N)	102.48	mg/lit	APHA 4500-Norg

Microbiological Parameters:

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

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			And Address of the	Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house Calibration		
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COO Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	29/06/2023	28/06/2024	
06	Microbiological Incubator (44.5 ° C)	GL/EQ4-03	AVI/2207016	29/06/2023	28/08/2024	
07.	Laminur Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024	
08.	Autoclave	GL/EQ/A/01	AVI/2207004	28/06/2023	28/06/2024	



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE				
Report No.	GW/K/23/0074		Report Date	21/09		2023	
Client Name & Address	GMR Goa Internati Administrative Bloc Taluka Pernem, Mo	k, Mopa Interr	sational Airport, Dadac	hiwadi l	Road, M	Nagzar,	
Order / Reference	As Per Dated 15/09/2023	Environmental Condition of Lab		Temp ⁴ C 30.1		Humidity % 76	
Sampling Plan	GLPL/QF/7.3/06	Sampling F	Procedure No.	APH	A 1060	1	
Sampling Point	STP Outlet			-			
Sampling Details	STP Outlet Water S	Sample	Date of Collection	te of Collection		15/09/2023	
Sample Collected by	GLPL Representati	PL Representative		On 16/09		2023	
Analysis Started On	16/09/2023		Analysis Complete	d On	On 21/09/2023		
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity		5旅+	1.25 %	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.36		5.5 - 9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	40	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)	15	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
б	Ammonia	2.24	mg/lit	5.00	APHA 4500 NHs B&C
7	Total Nitrogen (as N)	5.49	martit	10.00	APHA 4500-Norg

Microbiological Parameters:

8 Fecal Coliform at 44.5°C for 84 24 hrs. 84	MPN Index/100ml	100	APHA 9221 E
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For GADARK LAB PVT. LTD.

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Mater	GL/EQ/pH/01		In house Calibration		
02	Hot Air Oven	GL/EQ/D/01	AVI/2207012	29/06/2023	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04	BOD incubator	GL/EQ/1/02	AVI/2207014	29/08/2023	28/06/2024	
05	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVV/2207006	29/06/2023	28/08/2024	
06.	Microbiological Incubator (44.5 * C)	GL/EQ/1-03	AVI/2207016	29/06/2023	28/06/2024	
07	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	25/05/2023	15/02/2024	
.80	Autoclave	GL/EQ/A/01	AVI/2207004	29/05/2023	28/05/2024	



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TEST REPORT

	ANALYSIS REPORT	FORM	ATER SAMPLE			
Report No.	GWIK/23/0075		Report Date		04/10/	2023
Client Name & Address	GMR Gos International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Interna	tional Airport, Dadach	wadi I	Road, N	lagzar,
Order / Reference	As Per Dated 29/09/2023	Environmental Condition of Lab			mp ² C 29.5	Humidity % 78
Sampling Ptan	GLPL/QF77 3/05	Samp	ling Procedure No.	APHA 1060		
Sampling Point	OWS Inlet					
Sampling Details	OWS Inlet Storm Water Sa	mple	Date of Collection	28/09/2023		2023
Sample Collected by	GLPL Representative	11	Sample Received Or		00 30/05/2023	
Analysis Started On	30/09/2023	a be come count where a count of the second s		On	On 04/10/2023	
Sample Container	Plastic Carboy + Glass Bot	tie .	Sample Quantity		5.11.+	1.96

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.08	+	APHA 4500 H
2	Turbidity	2.6	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COO)	58	tihpm	APHA 5220 B
4	Biochemical Oxygen Demand (27 [°] C day) (BOD)	6	/mg/lit	IS 3025 (Part 44)
5	Total Suspended Solids (TSS)	10	mg/lit.	APHA 2540 D
6	OF & Grease (O & G)	< 0.1	engitie.	APHA 5520 B
7	Total Dissolved Solids 180°C	48	mg/lit	APHA 2540 C
8	Manganese (Mn)	< 0.01	img/66	APHA 3120 B
9	Iron (Fe)	0.025	mg/lit	APHA 3120 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BOL*	mg/la	APHA 6440

BOL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

For GADARK LAB PVT. LTD.

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Note:

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Sr.	Equipment Name	Equipment Id	Certificate	Calibration Details		
No.			No.	Calibration Date	Next Calibration Due Date	
D1.	pH Meter	GL/EQ/#H/01	1+1	In house Calibration		
02	Hot Air Oven	GL/EQ/D/01	AVU2207012	29/06/2023	28/08/2024	
03	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024	
04	600 incubator	GL/EQ//02	AV1/2207014	29/06/2023	25/06/2024	
05	Nephelometer	GL/EQ/Turb/01	-	Inhouse	Inhouse	
05	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/ED/AAS/01	-	Inhiouse	Inhouse	



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54. Additional M.I.D.C. Kudat, Taluka - Kudat, District - Sindhudurg - 416 525. Tet.: (02362) 223519 + E-mail: Info@gadark.in + Website : www.gadark.in

OFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbal - 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 93213 12367

TEST REPORT

	ANALYSIS REPORT	FOR W	ATER SAMPLE				
Report No.	GW/K/23/0076 Report Date		04/10	/2023			
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Tatuka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 29/09/2023	Environmental Condition of Lab		Temp ⁹ C 29.5	Humidity % 78		
Sampling Plan	GLPL/QF/7.3/08	Sampling Procedure No.		APHA 1080			
Sampling Point	OWS Outlet	-					
Sampling Details	OWS Outlet Storm Water S	iample	Date of Collection	29/09	2923		
Sample Collected by	GLPL Representative		Sample Received O	Dn 30/09/2023			
Analysis Started On	30/09/2023		Analysis Completed	On 04/10/2023			
Sample Container	Plastic Carboy + Glass Bot	the	Sample Quantity	5.84 + 1.94			

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.32	- 14	APHA 4500 H
2	Turbidity	1.1	NTU	APHA 2100 B
3	Chemical Oxygen Demand (COD)	23	mgita	APHA 5220 8
4	Biochemical Oxygen Demand (27 ⁶ C day) (BOD)	3	mgAlt	15-3025 (Part 44)
5	Total Suspended Solids (155)	ñ	mgifit	APHA 2540 D
6	Oi & Grease (O & G)	< 0.1	mgāt	APHA 5520 B
7	Total Dissolved Solids 180°C	36	mg/st	APHA 2540 C
8	Manganese (Mn)	< 0.01	mg/lit	APHA 3120 B
9	Iron (Fe)	0.030	mp/lit	APHA 3120 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mailt	APHA 6440
	A TANK	the second se	and the second se	and the second

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

For GADARK LAB PVT. LTD.

Standille AUTHORISED SIGNATORY

(SACHIN B. GAONKAR)

Note:

1. Results relate only to the sample tested.

- 2. Test Report shall not be reproduced except in full, without written approval of the laboratory
- 3. Samples will be preserved for a period 15 days from the delivery of Test Report.
- 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.



End

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Sr.	Equipment Name	and the second second	Certificate	Calibration Details		
No.		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In house Calibration		
02.	Hot Air Oven	GL/EQ/0/01	AVV/2207912	29/06/2023	28/05/2024	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	29/05/2023	28/06/2024	
04.	800 Incubiator	GL/EQ///02	AV1/2207014	29/06/2023	28/06/2024	
05	Nephelometer	GU/EQ/Turb/01		Inhouse	Inhouse	
06.	Gas Chromatograph	GL/EQ/GC/03	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024	
07	AAS (GBC)	GL/ED/AAS/01	-	Inhouse	Inhouse	



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB : H-54, Additional M.I.D.C. Kuital, Taluka - Kuital, District - Smithodurg - 416 525, Tet. (02362) 223519 + E-mail info@padark.in + Website - www.gadark.in

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

TEST REPORT

	ANALYSIS REPORT	FOR WATE	R SAMPLE			
Report No.	GW/23/1672		Report Date	04/10		2023
Ckent Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
Order / Relerance	As Per Dated 29/05/2023	Environmental Condition of Lab		Temp 29.5	2014	Humidity % 78
Sampling Plan	GLPU/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	Air Side Outfall 2					
Sampling Details	Air Side Outfall 2 Storm Wa	ater Sample	Date of Collection	20	29/09/2023	
Sample Collected by	GLPL Representative		Sample Received On		1 30/09/2023	
Analysis Started On	30/09/2023		Analysis Completed On		04/10/2023	
Sample Container	Plastic Carboy + Glass Bot	tie	Sample Quantity		5	18. + 1 18.

Chomical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	6.97	1.8	APHA 4500 H
2	Turbidity	7,8	NTU	APHA 2130 B
3	Chemical Oxygen Demand (CDD)	8	mg/tit	APHA 5220 B
4	Biochemical Oxygen Demand (27 ⁴ C day) (BOD)	< 2.0	mg/lit	IS 3025 (Part 44)
5	Total Suspended Solids (TSS)	2	mg/lit	APHA 2540 D
6	Oil & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	10	mgilit	APHA 2540 C
8	Manganese (Mn)	0.002	mg/R	APHA 3120 B
9	Iton (Fe)	0.034	shgm.	APHA 3120 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/lit	APHA 6440

BDL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Sr.	Equipment Name	Equipment ld	Certificate	Calibration Details			
No.			No,	Calibration Date	Next Calibration Due Date		
01.	pH Mater	GUED/pH/01		In house Calibration			
02	Hot Air Oven	GL/EQIO/01	AVI/2207012	29/06/2023	28/06/2024		
93	COD Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2024		
D4.	800 Incubator	GL/EO//02	AVI/2207014	29/06/2023	28/06/2024		
05.	Nephelometer	GL/EQ/Turb/01	- 1841	Inhouse	Inhouse		
D6.	Gas Chromatograph	GL/EØ/GG/00	AAS/GLCPL/C /2223/083	17/01/2023	16/01/2024		
07	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse		



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sinthuturg - 416 525 Tet.: (02362) 223519 + E-mail: Info@gadark.in + Website: www.gadark.in

OFF. 15. Hinduatan Kohinoor Industrial Complex, L.B.S. Marg. Victorii (West), Mumbai - 83. Tel. (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 93213 12367

TEST REPORT

	ANALYSIS REPORT	FORW	ATER SAMPLE				
Report No.	GW/23/1673 Report Date		Report Date	04/10/2023		2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 29/09/2023		Environmental Condition of		D'r	Humidity %	
Cildel (Neleience	MS FRI Dated 29/09/2023	Lab		29.5		78	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1050			
Sampling Point	Storm Water LS - III		in a second second second				
Sampling Details	LS - III Storm Water Sampl	10	Date of Collection	29/09/2023		2023	
Sample Collected by	GLPL Representative		Sample Received Or	Dn 30/09/2023		2023	
Analysis Started On	30/09/2023 Ana		Analysis Completed	On 6	4/10/	2023	
Sample Container	Plastic Carboy + Glass Bot	tte	Sample Quantity	5	10+	t lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.22	1.1.1	APHA 4500 H
2	Turbidity	106.5	NTU	APHA 2150 B
3.	Chemical Oxygen Demand (COD)	23	mg/lit	APHA 5220 B
4	Biochemical Oxygen Demand(27 ⁴ C day) (BOD)	4	mg/lit	(\$ 3025 (Part 44)
6	Total Suspended Solids (TSS)	36	mgliit	APHA 2540 D
6	CH & Grease (O & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	41	migNit	APHA 2540 C
8	Manganese (Mn)	0.002	mghit	APHA 3120 8
9	Iron (Fe)	0.010	mg/lit	APHA 3120 B

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For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Sr.	Equipment Name	Equipment Id	Certificate No.	Calibration Details		
No.				Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hour	ue Calibration	
62.	Hot Air Oven	GL/EQ/D/01	AVI/2207012	29/06/2023	28/08/2024	
03.	GOO Digester	GL/EQ/COD/01	AVI/2207010	29/06/2023	28/06/2924	
04.	BOD Incubator	GL/EQ/1/02	AVI/2207014	29/06/2023	28/06/2024	
05.	Neptwiorneter	GL/EQ/7urb/01	-	TriPiousin.	Inhouse	
06	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	Inhouse	



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LAB : H-54, Additional M.I.D.C. Kudal, Takaka - Kudal, District - Sindhudurg - 416 525. Tel. : (02362) 223519 + E-mail : Info@godark.in + Website : www.godark.in

OFF: 15. Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Viktroli (West), Munitari - 63. Tel.: (022) 2577 7065 / 2577 7070 / 2085 0091 + +91 93213 12367

TEST REPORT

	ANALYSIS REPORT	FOR WATE	ER SAMPLE				
Report No.	GW/23/1674 Report		Report Date	04/10	/2023		
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pemem, Mupa, North Goa - 403512						
Order / Reference	As Per Dated 29/09/2023	Environmental Condition of Lab		Temp [®] C 29.5	Humidity %		
Sampling Plan	GLPU/QF/7 3/06	Sampling Procedure No.		APHA 1060			
Sampling Point	Storm Water LS - IV						
Sampling Details	LS- IV Storm Water Sample	e Di	ate of Collection	29/09/2023			
Sample Collected by	GLPL Representative		imple Received Or	On 30/09/2023			
Analysis Started On	30/09/2023		Analysis Completed On		/2023		
Sample Container	Plastic Carboy + Glass Bot	tie Si	Sample Quantity		1 15		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.35		APHA 4500 H
2	Turbidity	135.4	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COO)	16	mpilit	APHA 5220 B
4	Biochemical Oxygen Demand (27 ⁶ C day) (BOD)	< 2.0	mg/lit	IS 2025 (Part 44)
5	Total Suspended Solids (TSS)	56	mg/tit	APHA 2540 D
6	Oi & Grease (D & G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	28	mg/lit	APHA 2540 C
8	Manganese (Mn)	1.360	mg/lit	APHA 3120 B
9	Iron (Fe)	0.241	mg/M	APHA 3120 B

For GADARK LAB PVT. LTD.

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AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

Note:

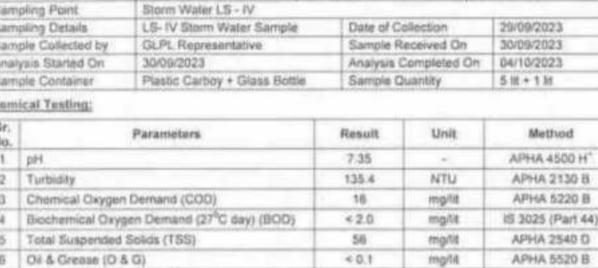
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Recognised by Ministry of Environment, Forest and CC, Government of India, vide Gazette Notification No. 3221. dated 24th August 2021, valid upto 15th October 2023. ISO 9001 2015 Certified & ISO 45001 2018 Certified

Equipment	Calibration	Details

Sr.	Equipment Name		Certificate	Calibration Details		
No.		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	18	In house Calibration		
02	Hat Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2013	28/06/2024	
03.	COD Digester	GL/EQ/COD/01	AVU2207010	29/06/2023	28406/20/24	
04.	BOD Incubitor	GL/EQ//02	AVI/2207014	29/06/2023	25/05/2024	
05	Nephelometer	GL/EQ/Turb/01	-	inhouse	Introuse	
06.	AAS (GBC)	GL/EQ/AAS/01		Inhouse	Introute	



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB : H-54, Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhurturg - 416 525. Tet. : (02362) 223519 • E-mail : info@gastark.in • Website : www.gadark.in

OFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg, Vikhroli (West), Mumbai - 83 Tel. (022) 2577 7089 / 2577 7070 / 2085 0091 + 491 93213 12367

TEST REPORT

	ANALYSIS REPORT	FOR WATER	SAMPLE		
Report No.	GW/23/1675	GW/23/1675 R		04/10/	2023
Client Name & Address	GMR Goa international Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International /		wadi Road, N	lagzar,
Order / Reference	As Per Dated 29/09/2023	Environmental Condition of Lab		Temp C 29.5	Humidity %
Sampling Plan	GLPU/QF/7.3/06	Sampling Procedure No.		APHA 1050	
Sampling Point	Air Side Outfall - 3				
Sampling Details	Air Side Outfall - 3 Storm \	Nater Sample	Date of Colle	ction	28/09/2023
Sample Collected by	GLPL Representative		Sample Received On		30/09/2023
Analysis Started On	30/09/2023		Analysis Cor	npleted On	04/10/2023
Sample Container	Plastic Carboy + Glass Bot	tte	Sample Qua	ritity	5111+111

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.32		APHA 4500 H
2	Turbidity	67.0	NTU	APHA 2130 B
3	Chemical Oxygen Demand (COD)	31	mgitt	APHA 5220 B
4	Biochemical Oxygen Demand (27 th C day) (BOD)	6	Migm	IS 3025 (Part 44)
5	Total Suspended Selids (TSS)	18	mgät	APHA 2540 D
6	OF & Grease (O & G)	< 0.1	mgAt	APHA 5520 B
7	Total Dissolved Solids 180°C	28	#Rgm	APHA 2540 C
8	Manganese (Mn)	0.002	mg/st	APHA 3120 B
9	iron (Fe)	< 0.007	Migm	APHA 3120 B
10	Polynuclear Aromatic Hydrocarbons (PAH)	BDL*	mg/%t	APHA 6440

BOL*- Below Detectable Limit for Polynuclear Aromatic Hydrocarbons is 0.001 mg/l

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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Sr.		and the second sec	Certificate	Calibration Details	
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In Neuse Calibration	
02.	Hot Air Ovion	GL/EQ/0/01	AVV/2207012	29/06/2023	28/06/2024
03	COO Digester	GL/EQ/COO/01	AVI/2207010	29/06/2023	25/06/2024
04.	800 incubator	GL/EG//02	AVU2207014	29/06/2023	26/06/2024
05.	Nephelometer	GUED/Turb/01		innouse	Inhouse
80	Gas Chromatograph	GL/ED/GC/03	AAS/GLOPL/C /2223/082	17/01/2023	16/01/2024
07	AAS (OBC)	GL/EQ/AAS/01	-	inhouse	tohouse



INDUSTRIAL ANALYSTS & CONSULTANTS

LAB.: H-54. Additional M.I.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416 525. Tel.: (02362) 223519 • E-mail: info@gedark.in • Website - www.gedark.in

OFF: 15, Hindustan Kohinoor Industrial Complex, L.B.S. Marg. Viktroli (West), Mumhai – 83. Tel.: (022) 2577 7069 / 2577 7070 / 2085 0091 + 491 93213 12387

TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE					
Report No.	GW/23/1676	GW/23/1676 Report Date		04/10	2023			
Client Name & Address	Administrative Block, Mopa	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated 29/09/2023	Environmental Condition of Lab		Temp®C 29.5	Humidity %			
Sampling Plan	GLPL/QF/7.3/05	Sampling	Procedure No.	APHA 1060				
Sampling Point	LS I Storm Water Sample							
Sampling Details	Storm Water LS 1	D	ate of Collection	29/09/2023				
Sample Collected by	GLPL Representative	S	ample Received Or	n 30/09	/2023			
Analysis Started On	30/09/2023 Analysis Colt		Analysis Completed On 04/1		/2023			
Sample Container	Plastic Carboy + Glass Bot	tie S	Sample Quantity		5 lit + 1 lit			

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.10	-	APHA 4500 H
2	Turbidity	108.7	NTU	APHA 2130 8
3	Chemical Oxygen Demand (COD)	23	singm	APHA 5220 B
4	Siochemical Oxygen Demand (27 th C day) (BOD)	3	mg/lit.	15 3025 (Part 44)
5	Total Suspended Solids (TSS)	41	mg/lit	APHA 2540 D
6	Oil & Grease (D.& G)	< 0.1	mg/lit	APHA 5520 B
7	Total Dissolved Solids 180°C	38	mgilit	APHA 2540 C
8	Manganese (Mn)	0.002	mg/tit	APHA 3120 B
9	Iron (Fe)	0.011	mg/lit	APHA 3120 8

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For GADARK LAB PVT. LTD.

Sectorals

AUTHORISED SIGNATORY [SACHIN B. GAONKAR]

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

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Sr. No.			Certificate	Calibration Details	
	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
Q1.	pH Meter	GL/EQ/pH/01		In house Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	29/06/2023	28/06/2024
03	COD Digester	GL/EQ/COD/01	AV1/2207010	29/06/2023	26/06/2024
134	BOD incubator	GL/EQ//02	AVI/2207014	29/05/2023	26/06/2024
05.	Nepheldmeter	GL/EQ/Turb/01		Inhouse	Inhouse
05	AAS (GBC)	GL/EQ/AAS/01	-	Inhouse	inhouse



Half Yearly EC Compliance Report (April 2023 to September 2023)

ANNEXURE - 3

ENVIRONMENTAL EXPENDITURE **DURING PERIOD OF APRIL 2023 TO SEPTEMBER 2023**

s. n.	Particulars	Total EXPENSES during Apr 2023 to Sep 2023 (in INR Crore)
1,	AAQ & Noise Levels Monitoring (in Goa & Maharashtra States)	0.132
2	Indoor Air Quality Monitoring	0.013
3.	Dust suppression through tankers & chemical dust suppression	0.028
4.	O&M of labour colony STP (225 KLD)	0.080
5.	O&M of labour colony STP (150 KLD)	0.120
б,	Occupational health surveillance of workmen	0.010
7.	Environment Management Cell (EMC) set up	0.590
8.	Hazardous Waste Management	0.0043
9.	Solid Waste Management	0.799
10.	Construction Debris & Scrap Management	0.070
11.	Suction Tankers Operation (Portable tollets at site)	0.294
12.	Environmental Compliance Monitoring by NEERI	0.200
13.	O&M of Aviation Noise Monitoring Terminals	0.060
14.	D&M of 625 KLD Sewage Treatment Plant	0.185
15.	O&M of 550 KLD Water Treatment Plant	0.231
16.	Landscaping & Horticulture	3.540
17.	Storm Water Flow Monitoring System	0.160
18.	Miscellaneous	0.070
	TOTAL	6.586

Note: All cost expenditures are in INR Crore

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Digitally signed by RANGANATHAN postalCode=562157, sh-Kamataka EC98624F81796EA0 IN-BANGANATHAN VENKATA SHESHAN Date: 2023.11.10 14:2657 +05'38



ANNEXURE - 4

LIST OF STATUTORY PERMITS / APPROVALS RELATED TO ENVIRONMENT OBTAINED DURING APRIL 2023 TO SEPTEMBER 2023

-	Statutory	Da	ite	Chabulany Authority	Permit
S.N.	Permits/Approval	Issued	Validity	Statutory Authority	enclosed as
1	Consent to Operate for Airport	13.04.2023	01.08.2027	GSPCB	Appendix-1
2	CTO for Cargo Terminal Building	08.05.2023	09.06.2027	GSPCB	Appendix-2
3	CTO for Taj Sats Building	07.06.2023	06,12.2023	GSPCB	Appendix-3
4	CTO for BPCL Fuel Farm	23.08.2023	27.07.2028	GSPCB	Appendix-4
5	Re-Issue of Aerodrome License (after airport name change)	16.08.2023	25.10.2027	DGCA	Appendix-5

RANGANAT HAN VENKATA SHESHAN

Digitally signed by RANGANATHAN VENKATA SHESHAN DNI c=IN, o=Personal, postalCode=562157, st=Karnataka, senalNumber=2C9AC68293B3C455 D089051156AC282D0674042FEDC 08789EC9B624F81F98EA0, cn=RANGANATHAN VENKATA SHESHAN

Date: 2023.11.10 14:29:19 +05'30"

Page 384 of 414

APPENDIX-1 CTO_OF GMR GOA INTERNATIONAL AIRPORT LIMITED

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832-2407700,

2407701, 2407703



Email Ids: Chairman, GSPCB: chairman-gspcb.goa@nic.in Member Secretary, GSPCB: ms-gspcb.goa@nic.in Office: mail.gspcb@gov.in

No.12/2023-PCB/1617143/R00011760

Date: 13/04/2023

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981and Authorization under Rule 6(i) of the Hazardous & Other Wastes (Management and Transboundary Movement) Rules 2016, as amended thereafter

[To be referred as Water Act, Air Act and HW (M & T) Rules respectively]

Consent to Operate is hereby granted to:

M/s. GMR Goa International Airport Limited (Represented by: Mr. Sheshan R V, Chief Executive Officer) (Red Category)

Mopa, Pernem, North Goa

Located in the area declared under the provisions of the Water Act & Air Act, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

- This Consent to Operate is is issued in supersession of the earlier Consent Orders issued vide Order No. 12/2022-PCB/1322094/R0008891 dated 20/10/2022, is valid for <u>01/08/2027</u>
- 2. This Consent to Operate is valid for the activity of :

Sr. No	Description	
1.	Airport (Operation and Maintenance) - 1 no.	

3.CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:

(i) The daily quantity of domestic effluent from the unit shall not exceed 625 KLD

(ii) Sewage Treatment Plant:

The unit shall install and operate sewage treatment plant (625 KLD capacity) of FMR technology, consisting of primary treatment comprising of bar screen & oil & grease separator, secondary treatment comprising of aeration / FMR reactor & clarifier tank and tertiary treatment comprising of multi grade filter& activated carbon filter, ultra filtration as is warranted with reference to influent quality and operate & maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

pH	Between	5.5 & 9.0	
Suspended Solids	Not to exceed	Not more than 20 mg/l	
BOD, 3 days, 27° C	Not to exceed	10 mg/1	
COD	Not to exceed	50 mg/l	
Oil & Grease	Not to exceed	10 mg/1	
N-total	Not to exceed	10 mg/1	
Fecal Coliform	Less than	100 MPN/100 ml	

(iii) Sewage Disposal:

The treated effluent shall be recycled to the maximum extent of which 36.33% of treated effluent shall be utilized for cooling tower make-up, 28.99% of treated effluent shall be utilized for toilet flushing purpose and 34.67% of treated water shall be used on land for landscape/ gardening purpose. There shall not be any discharge outside the unit premises.

- (iv) A good house-keeping shall be maintained within the unit premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.
- (v) The unit shall at his own cost get the effluent samples collected both before and after treatment and analyse every month the parameters indicated above from a laboratory recognized by Ministry of Environment & Forest and Climate Change under the Environment Protection Act, 1986 and rules there under and results shall be submitted online regularly to this Board, in the succeeding month.

(vi) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board:

Sr. no,	Type of segregated solid waste	Quantity	Disposal
1	Bio-degradable waste	2 MT/ day	To be composted onsite in Organic Waste Convertor(4 TPD) and compost to be used for plantation.
2.	Non-biodegradable waste	3 MT/ day	Recyclable waste to be disposed to the recyclers. Non-Recyclable waste to be baled and then handed over to GWMC or disposed off in cement kiln.

The total quantity shall be segregated and treated as follows:

(vii) The applicant should upload monthly statement (below format) regarding the solid waste generation online.

Sr. No.	Date	Quantity of wet/dry waste	Name of agency collecting the wet/ dry waste	Authorized Signatory

- (viii) The unit should operate and maintain machinery/equipment/facility for converting biodegradable /organic waste generated from the unit to compost so as to meet the standard for compost prescribed in the Solid Waste Management Rules, 2016.
- (ix) The unit should have zero discharge policy. ie the treated waste water may be re-used in process/green belt development /or any other use as deemed fit by the unit.

4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

 The unit may install the following equipment and shall be equipped with comprehensive control system as it is warranted with reference to generations of emissions:

Sr. No.	Name of Equipments/ Installation	No of Installation	Capacity	SO ₂ Kg/Hr	Particulate Matter mg/Nm ³
1.	D.G. set	3	2000 KVA	51.12	75

(ii) The applicant shall observe the following standards for D. G. Sets ≥ 1000 KVA

Sr. No	Parameters	Limits
1.	NOx (as NO ₂)	710 ppmv (at15% O2) Dry basis
2.	NMHC(as C)	100 mg/Nm ³ (at 15% O ₂)
2.	Particulate Matter	75 mg/Nm ³ (at 15 % O ₂)
4	CO	150 mg/Nm ³ (at 15 % O ₂)
4. 5.	Sulphur Content in Fuel	Less than 2%

(iii) The unit shall erect the chimney(s) of the following specifications:

Sr. No	Chimney attached to	Height
1,	D.G. set (2000 KVA)	30 mtrs

(iv) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	H.S.D. (For D.G. set of 2000 KVA)	710 litres/hr

- (v) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring - Material & methodology for isokinetic sampling.
- (vi) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.
- (vii) The unit should carry out emission monitoring from the stacks once a year from a laboratory recognized by Ministry of Environment and Forest & Climate Change under the Environment Protection Act, 1986 and the result shall be submitted online to the Board.
- (viii) The unit shall adhere to G.S.R. 568(E) dated 18th June, 2018, Ambient Air Quality Standards with respect to Noise in Airport Noise Zone and shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

SL No.	Industry	Parameters	Sta	undards
		Ambient Air Quality Standards with respect to Noise in Airport Noise Zone		
"112 Ai	Airports	Type of Airports	Limits in dB (A) Leq	
			Day time	Night time
		Busy Airport	70	65
		All other Airports excluding proposed Airports	65	60

Sr. No.	Pollutant	Time weighted	Concentration in A	Ambient Air
			Industrial residential rural & other area	Ecologically sensitive area (notified by Central Government)
-	Sulphur Dioxide (SO ₂), µg/m ³	Annual 24 hours**	50 80	20 80
	Nitrogen Dioxide (NO ₂), µg/m ²	Annual 24 hours**	40 80	30 80
3.	Particulate Matter	Annual	60	60

100

40

60

0.50

1.0

02

84

100

40

60

0.58

1.0

02

04

24 hours"

Annual

Annual

8 hours

1 hour

24 hours"

24 hours"

(size less than 10 µg) or

(size less than 2.50 µg)

Carbon Monoxide (CO),

PM10 µg m2 Particulate Matter

mg/m3

or PM25 ug/mi

Lead (Pb), ug m'

4.

5.

6

*Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

** 24 hourly or 8 hourly or 1 hourly monitored values, as applicable, shall be complied with 98% of the time in a year. 2% of the time, they may exceed the limits but not on two consecutive days of monitoring.

- The Unit shall carry out Ambient Air Quality Monitoring once every month from a laboratory (x) recognized by MOEF under the Environment Protection Act., 1986 and the report should be submitted online to the Board.
- (xi) The unit shall maintain and operate Continuous Ambient Air Quality Monitoring System (Parameters PM10, PM25, SO2, NO2, CO, Ozone, Hydrocarbons) and transfer the data to the Board server and CPCB server.
- (xii) The SMS/ email alerts will be sent to the unit if found to be non-complying to the standards prescribed in Consent. In case the unit is found to be non-complying for three consecutive occasions, necessary action will be initiated.

CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND 5. OTHER WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES 2016, AS AMENDED THEREAFTER:

i) The unit is hereby granted authorization to operate a facility for collection, storage and disposal of hazardous wastes as specified below:

Sr. No.	Category	Type of waste	Quantity	Mode of disposal
1.	5.1	Used / Spent oil	5 MT/ annum	To recycler registered with SPCB and having valid authorization of SPCB.
2.	33.1	Discarded containers contaminated with hazardous chemicals/ wastes	02 MT/ annum	To recycler registered with SPCB and having valid authorization of SPCB.

23.	33.2	Contaminated cotton rags or other	To be sent to operated by	
		cleaning materials	Envocare Ltd. IDC, Goa for incir	

- ii) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State Pollution Control Board.
- iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the unit by the person authorized shall constitute a breach of his authorization.
- It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- vi) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- vii) The occupier shall maintain a manifest system as per Rule 19 (1) for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- viii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- ix) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- x) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous Waste (Management & Transboundary Movement) Rules 2016, as amended thereafter.
- xi) The unit shall put up a display board at prominent location providing details as per the proforma (a) <u>http://goaspcb.gov.in/Hazardous-Waste-Management</u> for display of information related to Air, Water and Hazardous Waste generation.
- xii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.
- xiii) The occupier shall furnish annual returns online for collection, storage and disposal of hazardous waste in Form 4 by 30th June of every year for the preceding period April to March.

6. GENERAL CONDITIONS:

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or hazardous wastes or control equipment provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent, air emissions to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60days before the expiry of validity of this Consent. An application for renewal

of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.

- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water/ air is being polluted
- (v) This Consent to operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force the Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- (vi) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (vii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (viii) The Unit shall bear the cost of analysis / monitoring in case of complaints received by the Board / re-inspections due to non-compliances observed by the Board & monitoring carried by the Board.
- (ix) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office, if applicable.
- (x) The Unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2001, as amended thereafter, if applicable.
- (xi) The unit shall submit returns for disposal of e-waste under the E-Waste Management Rules 2016, as amended thereafter, if applicable.
- (xii) The unit shall submit returns for disposal of plastic waste under the Plastic Waste Management Rules 2016, as amended thereafter, if applicable.
- (xiii) The unit shall comply to the guidelines and dust mitigation measures in handling Construction materials and Demolition waste issued by the Central Pollution Control Board (CPCB) and are placed on Board website - <u>www.goaspcb.gov.in</u>, if applicable.
- (xiv) The import, stocking, distribution, sale and use of single use plastic, including polystyrene and expanded polystyrene, commodities as per the Plastic Waste Management Rules 2016, as amended thereafter, shall be prohibited.
- (xv) The unit has to obtain no objection certificate from the Central Ground Water Authority or the concerned State Authority for any ground water abstraction, if applicable.
- (xvi) The unit should implement rain water harvesting and ground water re-charge measures within the premises as approved by Water Resources Department, Govt. of Goa.
- (xvii) The unit shall carryout plantation of native tree species within the project site in the required areas in accordance with the Forest Department, Govt. of Goa.

7. SPECIFIC CONDITION

a. The unit shall stabilize the operation of STP within one month and submit compliance report to the Board along with the analysis report of treated water through a MoEF accredited laboratory.

To, M/s. GMR Goa International Airport Limited (Represented by: Mr. Sheshan R V, Chief Executive Officer) Mopa, Pernem, North-Goa

Copy to:-

- 1. Accounts Section
- 2. Concerned File
- 3. Guard File

Received Consent fee of The Capital Investment of the unit is Rs.2594.33 Crore

Cheque no.	Amount	Date
32022090	Rs. 25,71,7566/-	07/09/2022

(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

Goa State Pollution Control Board	Pollution Control Board
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CUSTOMER FEEDBACK

QEHS-CIE-F(06-03)

Dear Citizen / Customer,

We appreciate you for sparing a few minutes for giving us your valuable feedback on our services

Address'						
				1.18822.166	-	and a second second
Email:			Date.			
Name of the service availed:						
Are you aware that service standards are included www.goaspcb.gov.in? Yes No If yes, is the Citizen Charter simple and easy to un Yes No		a Charter i	es availe	ble on Boar	d's webs	ite
Description of service delivery parameters	Excellent	Good	Fair	Average	Poor	Reason for
Consents Authorisation RTI's Complaints etc.)						grading
Time taken to deliver service in comparison to						- Suine Room
ervice standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)						
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff			-		-	
Board's response in view of your			-			-
query/requirement is to your satisfaction						
Date of your visit to the office and your overall	-				-	-
experience						

Signature & date

To, The Member Secretary, Goa State Pollution Control Board, Near Pilerne Industrial Estate, Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

 Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

APPENDIX-2 CTO OF GMR AIR CARGO TERMINAL

GOA STATE POLLUTION CONTRO BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos: 0832- 2407700, 2407701, 2407702, 2407703 Tel/Fax No: 0832-2407700



Email Ids: Chairman, GSPCB: <u>chairman-gspcb.goa@nic.in</u> Member Secretary, GSPCB: <u>ms-gspcb.goa@nic.in</u> Office: <u>mail.gspcb@gov.in</u>

No.12/2023-PCB/1676359/R00012209

Date: 08/05/2023

Consent to Operate under Section 26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorization under Rule 6(i) of the Hazardous and Other Wastes (Management and Transboundry Movement) Rules, 2016, as amended thereafter.

[To be referred as Water Act, Air Act and HW (M & T) Rules respectively]

CONSENT TO OPERATE is hereby granted to:

M/s. GMR AIRPORTS LIMITED - AIR CARGO TERMINAL

(Represented by: Shri. Saurabh Kumar)

(Green Category)

Green Field International Airport, Mopa, Pernem, North Goa

Located in the area declared under the provisions of the Water Act and Air Act, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

- 1. The Consent to Operate is valid upto 09/06/2027
- 2. This Consent to operate is valid for the activity as mentioned below:

Sr. No	Description	Quantity
1.	Handling of Air Cargo	30000 MT/annum

3. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:

(i) The daily quantity of domestic effluent from the unit shall not exceed 1.8 KLD.

(ii) Domestic Effluent treatment and Disposal:-

The unit shall treat the domestic effluent in sewage treatment plant of M's GMR Goa International Airport Limited and shall ensure that there shall be no discharge of waste water within outside the unit premises.

(iii) A good house-keeping shall be maintained within the unit premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas & water body.

(iv) Non-Hazardous Solid Waste:

All the Solid wastes arising in the unit premises shall be properly classified and disposed off to the satisfaction of the Board as follows:

Sr. no.	Type of segregated solid waste	Quantity	Disposal
1.	Dry/Wet waste (MSW)	60 Kgs/ month	To be disposed through Solid waste Management Facility of M/s GMR Goa International Airport
2.	Waste Packaging Material (Waste corrugated boxes, wooden pellets, plastic, etc.)		Limited.

Near Pilerne Industrial Estate, Opp. - Saligao Seminary, Saligao-Bardez. Goa-403511 Page 393 of 414

(v) The applicant should upload monthly statement (below format) regarding the solid waste generation online.

Sr. No.	Date	Quantity of wet/dry waste	Name of agency collecting the wet/ dry waste	Authorized Signatory

4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

 The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr.	Name of	No of	Capacity	SO2	NOx	HC	co	PM
No	Equipments/ Installation	Installati on		Kg/Hr		(g/k	w-hr)	
1.	D. G. Set	01	500 KVA	3.6	9.2	1.3	3.5	0.3

(ii) The unit shall erect the chimney(s) of the following specifications

Sr. No	Chimney attached to	Height
1.	D. G. Set(for 500 KVA)	08 meters

(iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	D. G. Set(for 500 KVA)	50 liters hr.

- (iv) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring – Material & methodology for isokinetic sampling
- (v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.
- (vi) The unit should carry out emission monitoring from the stack once a year from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board.
- (vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows:

Category of Area/Zone	Limits in dB (A) Leq		
5 F	Day time	Night time	
Industrial Area	75	70	
Commercial Area	65	55	
Residential Area	55	45	
Silence Zone	50	40	

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

5. <u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES</u> (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) RULES, 2016, AS AMENDED <u>THEREAFTER:</u>

 The unit is hereby granted authorization to operate a facility for collection, storage and disposal of hazardous wastes as specified below;

Sr. No.	Category	Type of waste	Quantity	Mode of disposal
1	5.1	Used /Spent Oil	0.05 MT/ annum	To recycler registered with SPCB and having valid authorization of SPCB

- (ii) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- (iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- (iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the hotel unit by the person authorized shall constitute a breach of his authorization.
- (v) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (vi) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- (vii) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (viii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (ix) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- (x) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous and other Wastes (Management and Transboundary Movement) Rules, 2016, as amended thereafter.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through OCMMS systems.
- (xii) The The unit shall put up a display board at prominent location near the main gate providing details as per the proforma @ http://goaspcb.gov.in/Hazardous-Waste-Management for display of information related to Air, Water and Hazardous Waste generation.
- (xiii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.
- (xiv) The occupier shall furnish annual returns online for collection, storage and disposal of hazardous waste in Form 4 by 30th June of every year for the preceding period April to March.

6. GENERAL CONDITIONS:

- The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent emission or hazardous wastes or control equipments provided for without previous permissions of the Board
- ii. The applicant shall provide facilities for collection of the samples to the Board staff.
- iii. An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60- days before the expiry of validity of this Consent. Application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fee.
- iv. The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water air is being polluted.
- v. This Consent to Operate is granted without any prejudice to any of the permissions (s) required under any law, by laws and regulations in force the Consent to Operate is confined to matters arising out of the Air Act and Water Act only.

- vi. The Board reserves the right to amend or add any conditions in this Conent and the same shall be binding on the applicant.
- vii. The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the Succeeding year as per the provisions of the rule 14 of the Environmental (Protection) (Second Amendment) Rules, 1992.
- viii. The unit shall bear the cost of analysis / monitoring in case of complaints received by the Board' re inspection due to non compliance observed by the Board & monitoring carried by the Board.
- The Unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board
 office as applicable.
- x. The Unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2001, as amended thereafter, if applicable.
- The unit shall submit returns for disposal of e waste under the E- Waste Management Rules 2016, as amended thereafter, if applicable.
- xii. The unit shall submit returns for disposal of plastic waste under the Plastic Waste Management Rules 2016, as amended thereafter, if applicable.
- xiii. The unit shall comply to the Guidelines and dust mitigation measures in handling Construction material and C & D waste issued by central Pollution Control Board and are placed on Board website - <u>www.goaspcb.gov.in</u>
- xiv. The import, stocking, distribution, sale and use of single use plastic, including polystyrene and expanded polystyrene, commodities as per the Plastic Waste Management Rules 2016, as amended thereafter, shall be prohibited.
- xv. The unit has to obtain no objection certificate from the Central Ground water Authority, or the concerned state authority for any ground water abstraction, if applicable.

To, M/s. GMR Airports Limited - Air Cargo Terminal (Represented by: Shri Saurabh Kumar) Green Field International Airport, Mopa, Pernem, North Goa

Copy to: - 1 Accounts Section 2 Concerned File 3 Guard File

Received Consent fee of: The capital Investment of the unit is Rs. 35 Crore

Cheque no.	Amount	Date	
52023	Rs. 581400.00	17/04/2023	

(Dr. Shamila Monteiro) Member Secretary For Goa State Pollution Control Board

Goa State Pollution Control Board

QEHS-CIE-F(06-03)

	CUSTOMER	R FEEDB.	ACK			
Dear Citizen / Customer,						
We appreciate you for sparing a few minutes for gi	ving us your	valuable fe	edback	on our servi	ces	
Name ;			Con	tact	-115	
Address:						
Email:						
Name of the service availed:						
Are you aware that service standards are included i	n the Citizen	s Charter :	is availe	able on Boar	d'a webs	ite :www.goaspcb.gov
Yes No (
If yes, is the Citizen Charter simple and easy to un	derstand?					
Yes No (
Description of service delivery parameters (Consents/Authorisation/RTI's/Complaints etc.)	Excellent	Good	Fai r	Average	Poor	Reason for grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)			-			
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff					-	
Board's response in view of your query'requirement is to your satisfaction						

Suggestions for improvement, if any

Signature & date

To, The Member Secretary, Goa State Pollution Control Board, Near Pilerne Industrial Estate, Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

 Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

APPENDIX-3 CTO OF TAJ SATS AUR CATERING LIMITED

GOA STATE POLLUTION CONTROL BOARD गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832- 2407700,

2407701, 2407703



Email Ids: Chairman, GSPCB: <u>chairman-gspcb.goa@nic.in</u> Member Secretary, GSPCB: <u>ms-gspcb.goa@nic.in</u> Office: <u>mail.gspcb@gov.in</u>

No.12/2023-PCB/1699063/O00012413

Date: 07/06/2023

Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorisation under Rule 6(i) of the Hazardous and Other Wastes (Management and Transboundary Movement) Rules 2016, as amended thereafter [To be referred as Water Act, Air Act and HW (M & T) Rules respectively]

CONSENT TO OPERATE AND AUTHORISATION is hereby granted to:

M/s. TAJSATS AIR CATERING LIMITED. (Represented by: Mr. Probal Dey) (Orange Category)

Within the premises of GMR Goa International Airport Limited, Mopa, Pernem - Goa

Located in the area declared under the provisions of the Water Act, Air Act and Authorization under the provisions of HW (M & T) Rules, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

1. This Consent to Operate is valid for a period of six month from the date of issue of this consent.

2. This Consent to operate and Authorization is valid for the operation of:

Sr. No	Description	Quantity
1.	In-flight Air Catering unit	7000 meals/ day

3. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:

(i) The daily quantity of effluent from the unit (sewage & sullage) shall not exceed 44.8 K.L.D.

(ii) Sewage Treatment Plant:

The unit shall treat domestic effluent in sewage treatment plant (60 KLD capacity) based on Activated sludge process technology consisting of primary treatment comprising of bar screen, oil & grease trap, secondary treatment comprising of aeration tank, settling tank and tertiary treatment comprising of sand filter, carbon filter and chlorination as is warranted with reference to influent quality and operate & maintain the same continuously so as to achieve the quality of the treated effluent to the following standards:

pH	Between	5.5 & 9.0	
Suspended Solids	Not to exceed	100 mg/l	
BOD, 3 days, 27º C	Not to exceed	30 mg/l	
COD	Not to exceed	250 mg/l	
Oil & Grease	Not to exceed	10mg 1	
N-total	Not to exceed	10 mg/l	
Fecal Coliform	Less than	100 MPN/100 ml	

(iii) Sewage Disposal:

The treated effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening and flushing. There shall not be any discharge outside the premises.

Near Pileme Industrial Estate, Opp - Saligao Seminary, Saligao-Bardez Goa-403511 Page 398 of 414 Page 1 of 6

(iv) The unit shall provide a proper Oil and Grease Trap for effluent arising from its kitchen and shall have to comply with the 'General Standards for Discharge of Environmental Pollutants Part-A: Effluents' notified under Schedule-VI

- (v) The unit shall at his own cost get the effluent samples collected both before and after treatment and analyse, every month the parameters indicated above from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and rules there under and results shall be submitted regularly to this Board.
- (vi) A good house-keeping shall be maintained within the premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas.

(vii) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board. The total quantity shall be segregated and treated as follows:

Sr. no.	Type of segregated solid waste	Quantity	Disposal
1.	Dry waste	4.5 MT/month	To be disposed through Board authorized waste collectors.
2.	Wet waste	4.5 MT/month	To be composted through organic waste converter
3.	Used Cooking Oil	200 litres month	o be disposed through registered vendors

(viii) The applicant should upload monthly statement (below format) regarding the solid waste generation online.

Sr. Date Quantity of No. wet/dry was	Name of agency collecting the wet/ dry waste	Authorized Signatory
-----------------------------------------	-------------------------------------------------	----------------------

- (ix) The unit should operate and maintain machinery equipment facility for converting bio-degradable organic waste generated from the unit to compost so as to meet the standard for compost prescribed in the Solid Waste Management Rules, 2016.
- (x) The unit should have zero discharge policy, ie the treated waste water may be re-used in process green belt development (or any other use as deemed fit by the unit.

4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

(i) The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr. No.	Name of Equipments/	No of Installatio	Capacity	SO ₂ Kg/Hr	NO ₁ HC		CO PM	
	Installation	n		10000000		(g/k	/kw-hr)	
1.	D.G. set	01	900 KVA	13.6	9.2	1.3	3.5	0.3

(ii) The unit shall erect the chimney(s) of the following specifications:

Sr. No	Chimney attached to	Height
1.	D.G. set (of 900 KVA capacity)	10 mtrs

(iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr
1.	H.S.D. (for 900 KVA D.G. set)	189 ltrs/hr

(iv) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring –Material & methodology for isokinetic sampling.

(v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.

- (vi) The unit should carry out emission monitoring from the stack once in year from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board.
- (vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows

Category of Area/ Zone	Limits in dB (A) Leq				
	Day time	Night time			
Industrial Area	75	70			
Commercial Area	65	55			
Residential Area	55	45			
Silence Zone	50	40			

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

<u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER WASTES</u> (MANAGEMENT AND TRANSBOUNDRY MOVEMENT) RULES 2016, AS AMENDED THEREAFTER:

(i) The unit is hereby granted authorization to operate a facility for collection, storage and disposal of hazardous wastes as specified below:

Sr. No.	Category	Type of waste	Quantity	Mode of disposal
1.	5.1	Used/Spent oil	0.2 MT/ annum.	To recycler registered with SPCB and having valid authorization of SPCB

- (ii) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- (iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- (iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the hotel unit by the person authorized shall constitute a breach of his authorization.
- (v) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (vi) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- (vii) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (viii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (ix) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- (x) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous Waste (Management & Transboundary Movement) Rules Amended 2018.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCCMS systems.
- (xii) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages --
 - Hazardous Waste category number.
 - Hazardous Waste quantity number.
 - Treatment facility for each category.

- Mode of disposal for each category.
- Hazardous Waste Authorization number, date and validity period.
- Water Consent number, date and validity period.
- Air Consent number, date and validity period.
- Quantity and Nature of Hazardous Chemicals being used.
- (xiii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.
- (xiv) The unit shall submit online annual returns in prescribed format on or before 30th June of every year.

6. GENERAL CONDITIONS:

- (i) The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/ emission or hazardous wastes or control equipment provided for without previous permission of the Board.
- (ii) The unit shall provide facility for collection of samples of effluent, air emissions to the Board staff.
- (iii) An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60days before the expiry of validity of this Consent. An application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fees.
- (iv) The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water air is being polluted
- (v) This Consent to operate is granted without any prejudice to any of the permission(s) required under any law, by laws and regulations in force the Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- (vi) The Board reserves the right to amend or add any conditions in this consent and the same shall be binding on the applicant.
- (vii) The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the succeeding year as per the provisions of the rule 14 of the Environment (Protection) (Second Amendment) Rules, 1992.
- (viii) The Unit shall bear the cost of analysis / monitoring in case of complaints received by the Board / re-inspections due to non-compliances observed by the Board & monitoring carried by the Board.
- (ix) The unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office, if applicable.
- (x) The Unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2001, as amended thereafter, if applicable.
- (xi) The unit shall submit returns for disposal of e-waste under the E-Waste Management Rules 2016, as amended thereafter, if applicable.
- (xii) The unit shall submit returns for disposal of plastic waste under the Plastic Waste Management Rules 2016, as amended thereafter, if applicable.
- (xiii) The unit shall comply to the guidelines and dust mitigation measures in handling Construction materials and Demolition waste issued by the Central Pollution Control Board (CPCB) and are placed on Board website – www.goaspcb.gov.in., if applicable.
- (xiv) The import, stocking, distribution, sale and use of single use plastic, including polystyrene and expanded polystyrene, commodities as per the Plastic Waste Management Rules 2016, as amended thereafter, shall be prohibited.

- (xv) The unit has to obtain no objection certificate from the Central Ground Water Authority or the concerned State Authority for any ground water abstraction, if applicable.
- (xvi) The unit shall comply to the Circular issued by the Board regarding "Mechanism/Guidelines for Control of Pollution and Enforcement of Environment norms at individual establishments and the area/cluster of Restaurants/hotels/motels/banquets etc. in view of the NGT Order in OA No 400/2017 dated 10/06/2021 and as amended thereafter.

To, M/s. TAJSATS AIR CATERING LIMITED C/o. Mr. Probal Dey Within the premises of GMR Goa International Airport Limited, Mopa, Pernem, Goa

Copy to:- 1. Accounts Section 2. Concerned File 3. Guard File

Received Consent fee of: The Capital Investment of the unit is Rs. 16,50,00,000/-

Challan no.	Amount	Date
047418	Rs. 790400.00/- (Water, Air & HW consent renewal fees)	24/04/2023

(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

03	State	P	ollution	Control	Board

CUSTOMER FEEDBACK

QEHS-CIE-F(06-03)

Dear Citizen / Customer, 17

G

le appreciate	you for	sparing a f	ew minutes for	r giving us your	valuable	feedback on	our services

Name :	Contact					
	iosoli i i mini					
Email:			Date		NG-QUAR	
Name of the service availed:						
Are you aware that service standards are included Yes No (If yes, is the Citizen Charter simple and easy to un Yes No No ('s Charter	as availe	ible on Boar	d's webs	ite :www.goasj
Description of service delivery parameters	Excellent	Good	Fair	Average	Poor	Reason for
Consents Authorisation RTI's Complaints etc.)				1		grading
Time taken to deliver service in comparison to service standards mentioned in Citizen's Charter						
Quality of service (accuracy, completeness)		1				
Knowledge of dealing hand / staff regarding services/schemes						
Courtesy of staff		1	1		+	
Board's response in view of your query'requirement is to your satisfaction		1				
Date of your visit to the office and your overall	-	-	-		-	

Signature & date

To, The Member Secretary, Goa State Pollution Control Board, Near Pilerne Industrial Estate, Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

· Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment

APPENDIX-4 CTO OF BHARAT PETROLEUM CORPORATION LIMITED

GOA STATE POLLUTION CONTROL BOARD

गोंय राज्य प्रदूषण नियंत्रण मंडळ

(An ISO 9001-2015, ISO 14001:2015, ISO 45001:2018 Certified Board)

Phone Nos : 0832-2407700, 2407701, 2407703



Email Ids: Chairman, GSPCB: <u>chairman_gspcb.goa@nic.in</u> Member Secretary, GSPCB: <u>ms-gspcb.goa@nic.in</u> Office: <u>mail.gspcb@gov.in</u>

No.12/2023-PCB/1773218/R00012879

Date: 23/08/2023

Renewal of Consent to Operate under Section 25/26 of the Water (Prevention & Control of Pollution) Act, 1974 & under Section 21 of the Air (Prevention & Control of Pollution) Act, 1981 and Authorisation under Rule 6 (i) of the Hazardous and other Wastes (Management and Transboundary Movement) Rules 2016, as amended thereafter.

[To be referred as Water Act, Air Act and HW (M & T) Rules respectively]

RENEWAL OF CONSENT TO OPERATE AND AUTHORISATION is hereby granted to:

M/s. BHARAT PETROLEUM CORPORATION LIMITED (Represented by: Mr. Christopher Tigga) (Red Category)

Aviation Fuel Farm Survey No. 107/1, 107/14, 107/30, Mopa Airport, Varkhand Village, Pernem - Goa

Located in the area declared under the provisions of the Water Act and Air Act, subject to the provisions of the Act and the Rules and the Orders that may be made further and subject to the following terms and conditions:

- This Renewal of Consent to operate and Authorization is issued in supersession of the earlier Consent Orders issued vide Order No.12/2022-PCB/1394833/R00010451 dated 19/10/2022 & No.12/2023-PCB/1673045/R00012185 dated 08/05/2023 is valid upto <u>27/07/2028</u>
- 2. This Renewal of Consent to Operate is valid for the activity as mentioned below:

Sr. No	Description	Capacity
1.	Storage of Aviation Turbine Fuel (ATF)	8300 KL

3. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE WATER ACT:

(i) The daily quantity of domestic effluent from the unit shall not exceed 2.0 KLD.

(ii) Domestic Effluent treatment and Disposal:-

The unit shall treat the domestic effluent in sewage treatment plant of M's GMR Goa International Airport Limited and shall ensure that there shall be no discharge of waste water within outside the unit premises.

(iii) A good house-keeping shall be maintained within the unit premises. All pipes, valves and drains shall be maintained in leak-proof condition. Floor washings shall be maintained to the effluent collection system only and shall not be allowed to find way in open areas & water body.

(iv) Non-Hazardous Solid Waste:

All the Solid wastes arising in the premises shall be properly classified and disposed off to the satisfaction of the Board.

(v) The applicant should upload monthly statement (below format) regarding the solid waste generation online.

Sr. No	Date	Quantity of wet/dry waste	Name of agency collecting the wet/ dry waste	Authorized Signatory

4. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE AIR ACT:

 The unit shall maintain and operate air pollution control system of adequate capacity for the following equipments

Sr.	A PRODUCED PROVIDE CONTRA	1000 00 00 00 00 00 00 00 00 00 00 00 00	Capacity	SO2	NOx	HC	co	PM	
No	Equipments/ Installation	Installati on		Kg/Hr		(g/l	(g/kw-hr)		
1.	D. G. Set	01	30 KVA	0.29	9.2	1.3	3.5	0.3	
2.	D.G. Set	01	125 KVA	1.08	9.2	1.3	3.5	0.3	
3.	D.G Set	01	380 KVA	2.88	9.2	1.3	3.5	0.3	

(ii) The unit shall erect the chimney(s) of the following specifications

Sr. No	Chimney attached to	Height
1.	D. G. Set(for 30 KVA)	3 meter
2.	D. G. Set(for 125 KVA)	8 meter
3.	D. G. Set(for 380 KVA)	10 meter

(iii) The unit shall observe the following standards:-

Sr. No	Type of fuel	Quantity /hr	
1.	D. G. Set(for 30 KVA)	4 litres/ hr	
2.	D. G. Set(for 125 KVA)	15 litres/ hr	
3.	D. G. Set(for 380 KVA)	litres hr	

(iv) The Stack Port Hole and Platform is to be designed as per CPCB guidelines Method 1 Part 1 of Stack Monitoring – Material & methodology for isokinetic sampling.

- (v) The unit should comply with all the standards for D.G. Sets prescribed at Sr. no. 94, 95 and 96 of Schedule I of the Environment (Protection) Rules, 1986.
- (vi) The unit should carry out emission monitoring from the stacks once a year from a laboratory recognized by Ministry of Environment and Forest under the Environment Protection Act, 1986 and the result shall be submitted to this Board.
- (vii) The unit shall take adequate measures for control of noise levels from its own sources within the premises in respect of noise. The limits are as follows:

Category of Area/ Zone	Limits in dB (A) Leq			
	Day time	Night time		
Industrial Area	75	70		
Commercial Area	65	55		
Residential Area	55	45		
Silence Zone	50	40		

Day time is reckoned between 6 a.m. to 10 p.m. and night time is reckoned between 10 p.m. to 6 a.m.

5. <u>CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND OTHER</u> WASTES (MANAGEMENT AND TRANSBOUNDARY MOVEMENT) RULES 2016, AS AMENDED THEREAFTER:

(i) The unit is hereby granted authorization to operate a facility for collection, storage and disposal of hazardous wastes as specified below:

Sr. No.	Category	Type of waste	Quantity	Mode of disposal
1_	5.1	Used Spent oil	0.06 MT/annum	To recycler registered with SPCB and having valid authorization of SPCB.

- (ii) The authorization shall comply with the provisions of the Environment (Protection) Act, 1986 and the rule made there under.
- (iii) The person authorized shall not rent, lend, sell or transfer or otherwise transport the hazardous waste without obtaining prior permission of the Goa State pollution Control Board.
- (iv) Any unauthorized change in personnel, equipment or working conditions as mentioned in the hotel unit by the person authorized shall constitute a breach of his authorization.
- (v) It is a duty of the authorized person to take permission of the Goa State Pollution Control Board to close down the facility.
- (vi) The inner bottom surfaces of the tank shall be impervious enough to prevent leakage or seepage of these wastes into the sub surface soil or ground water.
- (vii) The occupier shall maintain a manifest system as per Rule 19 for disposal of hazardous wastes to ensure that these wastes are delivered to the designated facility preventing pilferage and clandestine disposal due to unforeseen events that may occur during transit.
- (viii) The manifest shall be endorsed by the dispatcher, transporter and receiver of hazardous wastes. The endorsed copy shall be furnished to the Goa State Pollution Control Board.
- (ix) Under any circumstances the hazardous waste shall not be disposed to unauthorized facilities.
- (x) The occupier shall maintain the records for collection, storage and disposal of hazardous waste in Form 3 of as per Hazardous Waste (Management & Transboundary Movement) Rules Amended 2018.
- (xi) The occupier shall furnish monthly returns for collection, storage and disposal of hazardous waste through online OCCMS systems.
- (xii) The unit shall put up an online board (minimum size 6x4 Feet) at prominent location near the main gate providing details as follows in English and Konkani languages -
- Hazardous Waste category number.
- Hazardous Waste quantity number.
- Treatment facility for each category.
- Mode of disposal for each category.
- Hazardous Waste Authorization number, date and validity period.
- Water Consent number, date and validity period.
- Air Consent number, date and validity period.
- Quantity and Nature of Hazardous Chemicals being used.

(xiii) The occupier shall ensure that the Hazardous Wastes are not allowed to be stored for more than 90 days.

(xiv) The unit shall submit online annual returns in prescribed format on or before 30th June of every year.

6. GENERAL CONDITIONS:

- i. The unit shall not change or alter the quantity, quality of discharge, temperature or the mode of the effluent/emission or hazardous wastes or control equipments provided for without previous permissions of the Board
- ii. The applicant shall provide facilities for collection of the samples to the Board staff.
- iii. An application in prescribed form along with the prescribed fees for renewal of Consent shall be submitted at least 60- days before the expiry of validity of this Consent. Application for renewal of Consent submitted after expiry of the validity shall accompany with penalty of 50% of the Consent fees in addition to the prescribed consent fee.
- iv. The Board shall be forthwith informed of any accident or unforeseen event involving discharge of any poisonous, noxious or polluting matter into a stream or well or on land or into the atmosphere, as result of such discharge water air is being polluted.
- v. This Consent to Operate is granted without any prejudice to any of the permissions (s) required under any law, by laws and regulations in force the Consent to Operate is confined to matters arising out of the Air Act and Water Act only.
- vi. The Board reserves the right to amend or add any conditions in this Conent and the same shall be binding on the applicant.
- vii. The unit shall submit to this office, the Environmental Statement Report in Form V for the Financial Year ending April to March by 30th September of the Succeeding year as per the provisions of the rule 14 of the Environmental (Protection) (Second Amendment) Rules, 1992.
- viii. The unit shall bear the cost of analysis / monitoring in case of complaints received by the Board / re inspection due to non compliance observed by the Board & monitoring carried by the Board.
- The Unit shall submit the details of the Public Liability Insurance Policy under the PLI Act 1991, to the Board office as applicable.
- x. The unit shall submit returns for disposal of batteries under the Batteries (Management & Handling) Rules 2001 as amended thereafter, if applicable.
- xi. The unit shall submit returns for disposal of e waste under the E- Waste Management Rules 2016, as amended thereafter, if applicable.
- xii. The unit shall submit returns for disposal of plastic waste under the Plastic Waste Management Rules 2016, as amended thereafter, if applicable.
- xiii. The unit shall comply to the Guidelines and DUST Mitigation measures in handling Construction materials and C & D waste issued by Central Pollution Control Board and are placed on Board website goaspcb.gov.in.
- xiv. The import, stocking, distribution, sale and use of single use plastic, including polystyrene and expanded polystyrene, commodities as per the Plastic Waste Management Rules 2016, as amended thereafter, shall be prohibited.

xv. The unit has to obtain no objection certificate from the Central Ground water Authority, or the concerned state authority for any ground water abstraction, if applicable.

To, M/s. Bharat Petroleum Corporation Limited C/o. Mr. Christopher Tigga, Mopa Airport, Varkhand Village, Pernem - Goa

Copy to: - 1 Accounts Section 2 Concerned File 3 Guard File

Received Consent fee of The capital Investment of the unit is Rs. 4303.16 (in lakhs)

Receipt no.	Amount	Date
83775	Rs. 6,96,800/-	20/07/2022

(Dr. Shamila Monteiro) Member Secretary For Goa State Pollution Control Board

Goa State Pollution Control Board

QEHS-CIE-F(06-03)

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www.goaspeb.gov.in? Yes	No.						
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Suggestions for improvement, if any

Signature & date

To, The Member Secretary, Goa State Pollution Control Board, Near Pileme Industrial Estate, Opposite Saligao Seminary, Saligao, Bardez, Goa. 403511

 Please note that your feedback is considered essential for overall improvement and development of Board functions in service of environment.

APPENDIX-5 AERODROME LICENCE AFTER NAME CHANGE GOVERNMENT OF INDIA OFFICE OF THE DIRECTOR GENERAL OF CIVIL AVIATION DGCA COMPLEX, OPP, SAFDARJUNG AIRPORT, NEW DELHI-110 003 File No. AV.20025/05/2022-AL License No. AL/Public/096 **AERODROME LICENSE - PUBLIC USE** The Director General of Civil Aviation, in exercise of the powers under Rule 78 of the Aircraft Rules, 1937 delegated vide S.O. No. 727 (E) dated the 4th October, 1994, hereby grants license to, GMR Goa International Airport Limited (Name of License holder) for

Manohar International Airport - Mopa, Goa

(Name & Place of Aerodrome)

Latitude 15° 44' 32.99" N, Longitude 073° 52' 01.23" E (WGS-84)

The ARFF category of the aerodrome and other details are as contained in its Aerodrome Manual.

This license authorizes the aerodrome to be used as regular place of landing and departure to all persons on equal terms and conditions for operation by aircraft requiring specifications of runway and associated facilities including granted exemptions equal to or less than those indicated in the Aerodrome Manual, subject to the conditions as contained in Schedule-I and for a period as shown in Schedule-II hereto.

The license is liable to be suspended/ modified/ withdrawn/ and/or any limitations or conditions may be imposed, if any violation of the provisions of the Aircraft Act 1934, Aircraft Rules 1937, or any orders/ directions/ requirements issued under the said Act, rules or of the limitations or conditions as in schedule-I are observed.

This Aerodrome License is not transferable.

(SEAL)

aller

Date of Re-issue: 16th August, 2023 Date of Initial issue: 26th October, 2022 Place: New Delhi DIRE

DIRECTOR GENERAL OF CIVIL AVIATION

SCHEDULE-I

GENERAL CONDITIONS

- The Licensee shall ensure that aerodrome facilities, equipment, services and procedures are operated and / or maintained properly and efficiently in accordance with the Aerodrome Manual submitted to DGCA, the applicable standards set out in the CARs and conditions specified in this license.
- 2. The Licensee shall ensure that the copies of the Aerodrome Manual and Safety Management System (SMS) Manual, accepted by DGCA are always kept complete and current. The Licensee shall ensure that each member of the aerodrome operating staff is aware of the contents of the every part of the aerodrome manual and SMS manual, relevant to his duties and undertakes his duties in conformity with the relevant provisions of these manuals.
- 3. The Licensee shall ensure that an adequate number of qualified and skilled personnel are employed to perform all critical activities for the operation and maintenance of its aerodrome, and that a programme to upgrade the competency for the personnel is in place.
- 4. The Licensee shall notify the agency responsible for Aeronautical Information Services and the air traffic control unit immediately of any obstacles, obstructions or hazards, change in level of service at the aerodrome as set out in any publication by the aeronautical information services or variation from the Standards; closure of the movement area of the aerodrome; significant change in aerodrome facility or the physical layout of the aerodrome; and any other condition that could affect aviation safety at the aerodrome and against which precautions are warranted.
- 5. The Licensee shall notify the agency responsible for Aeronautical Information Services of any change to any aerodrome facility or equipment or level of service at the aerodrome which has been planned in advance and which is likely to affect the accuracy of the information contained in any publication by the agency before effecting the change.
- The licensee shall be responsible to ensure that all security and anti-hijacking arrangements stipulated from time to time by the Bureau of Civil Aviation Security for the aerodrome are complied with.
- When so demanded by an officer duly authorized under the Aircraft Rules, 1937, this license and any other relevant documents shall be produced for inspection.
- The licensee shall be responsible for payment to the concerned authorities of all applicable charges pertaining to the services provided by such authorities in connection with the aerodrome operation such as water supply, electricity supply, telephone lines etc.
- Licensee shall maintain record of all aircraft landing at and taking-off from the aerodrome.
- 10. The Licensee shall have legally tenable agreement with CNS and ATM service provider(s) to ensure continuity and reliability of CNS and ATM to ensure the safety of aircraft in the airspace associated with aerodrome, and that proper coordination with the agencies responsible for aeronautical information services, meteorological services, security and other areas related to safety are established.
- The aerodrome shall at all reasonable times be open to use by any aircraft in the service of the Central Government.
- 12. The licensee shall ensure that during the validity of the license the capability of the services/facilities, etc. is not degraded below the notified level.
- 13. The licensee is to submit the application for renewal in prescribed proforma along with relevant enclosures and fee, at least 2 months before expiry of license to the Director General of Civit Aviation. The license may be renewed if DGCA is satisfied that all requirements have been fulfilled.
- Other requirements of Central Government and State Government as applicable shall be complied with.

License No. AL/Public/ 096

- The aerodrome meets the design criteria and reference code <u>4E</u> as defined in the CAR Section 4 Series B Part I and designed for operation of <u>B-777-300 ER</u> type or equivalent aircraft.
- The licensee shall maintain ARFF category defined in the Aerodrome manual or as notified by NOTAM issued in this regards.
- 17. The aerodrome is licensed for use in IFR (All weather) / VFR-(Day) conditions.
- 18. Any other conditions :-

 Actions required to be completed by the licensee for consideration of renewal of license validity as contained in Annexure-I, hereto.



Portion of map showing exact location of aerodrome.



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License No. AL/Public/ 096

SCHEDULE-II

VALIDITY OF THE LICENSE

Manohar International Airport - Mopa, Goa

FROM	то	SIGNATURE
26.10.2022	25.04.2023 (Provisional)	Sd-/- (Arun Kumar)
26.04.2023	25.10.2027	wind Winner and a Property Plante
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License No. AL/Public/ 096

Annexure-I

Annexure to SI. No. 18 of General Conditions of license.

Actions required to be taken by the licensee for consideration of renewal of license validity of Manohar International Airport – Mopa, Goa:-

- Submit the quarterly progress report on pending observations contained in this office inspection report and on self-assessed non-compliances based on CAR provisions.
- Submit exemption application complete in all respect for non-compliances identified if any for aerodrome facilities as per CAR Section 4 Series B Part I and observations raised by DGCA.
- Continue to develop the operating procedures for all activities required to be performed for operation and maintenance of the aerodrome and carry out safety assessment of the same.
- Submit updated SMS Implementation status at the aerodrome on completion of each phase.

eller