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Date: 18th May 2023

Ref: GGIAL/MoEF&CC-EC/2023-24/1592

To,

The Addl. PCCF (C)

Ministry of Environment, Forest & Climate Change,

Regional Office (SZ),

4th Floor, E&F Wing, Kendriya Sadan, Koramangala, Bengaluru - 560034

Name of the Project: Manohar International Airport, Goa EC File No.: F.No.10-29/2011—IA.III dtd 28th Oct'15 & addendum dtd. 13th Mar'20

Sub: Submission of Half Yearly EC Compliance Report: Oct 2022 - Mar 2023

Dear Sir,

As your good offices are aware, post inauguration of our 'Greenfield International Airport at Mopa, Goa' by the Hon'ble PM Shri Narendra Modi on 11th Dec'22, our 'Greenfield International Airport at Mopa, Goa' has been named as 'Manohar International Airport'. Post inauguration, we commenced our domestic operations from 5th Jan'23. We request you to kindly take note of the same.

In compliance to the provisions of EC granted to us, please find enclosed herewith the Half Yearly Environmental Clearance (EC) Compliance Report for the period of October 2022 to March 2023.

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

Thanking you,

Youns Sincerely,

for GMR Goa International Airport Limited

R V Sheshan

Chief Executive Officer

Enclosure: a/a

Copy for kind information to:

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





HALF YEARLY ENVIRONMENTAL CLEARANCE COMPLIANCE REPORT

(Period: October 2022 to March 2023)



Environmental Clearance Compliance Status Report of

Greenfield International Airport at Mopa, Goa

With reference to

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

Addendum to EC Conditions dated 13.03.2020

GMR GOA INTERNATIONAL AIRPORT LIMITED

MANOHAR INTERNATIONAL AIRPORT

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



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Point-wise compliance

	Fortt-wise compliance			
No.	Reference No.	Conditions	Compliance	
Conditi	ons of EC dat	ed 28/10/2015		
		'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).	
1.	4 (A) (i)		as Non-Scheduled Commercial Operation Date (COD). Further, GGIAL has declared 5 th January 2023 as a Scheduled Commercial Operation Date (COD and commenced the operation phase.	
			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.	
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 is being addressed by the Government of Goa (GoG).	





No.	Reference No.	Conditions	Compliance
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 GoG. The construction work is in progress and is being executed through State PWD, GoG.
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 inbetween 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





No.	Reference No.	Conditions	Compliance
			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 convenient places for passengers and also at the cafeterias as to reduce the generation of solid wastes including PET bottles.	Complied. All solid waste is collected, segregated and disposed of according to the provisions of Solid Waste (M&H) Rules 2016. Integrated Solid Waste Management Facility (ISWMF) has been set up within the airport complex to handle all solid waste through a dedicated third-party Waste Management Agency.
			Drinking water fountains has been provided for passengers in Passenge 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) (ix)	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.





No.	Reference No.	Conditions	Compliance
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. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24th 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.





No.	Reference No.	Conditions	Compliance
			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. 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	As per CA, this is being addressed by GoG.



No.	Reference No.	Conditions	Compliance
		to prevent encroachment along/ within the Rows on connecting/ main arterial roads.	
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 meteorological conditions) within the compound as well as nearby habitations and it shall be ensured that the noise level is within the prescribed limits. During night time the noise levels measured at the boundary shall be restricted to the permissible levels to comply with the prevalent regulations.	Complied. A noise level display system has been installed within the airport premises. Scheduled commercial airport operation commenced on 5 th January 2023. Ambient noise levels monitoring is being conducted by MoEF&CC approved and NABL-accredited Environmenta 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 Terminals (NMT) have been installed and commissioned at the two locations in the



No.	Reference No.	Conditions	Compliance
			approach funnel zone of airport, duly approved by DGCA and GSPCB.
21.	4 (A) (xxi)	Construction spoils, including bituminous material and other hazardous materials, must not be allowed to contaminate watercourses and the dump sites for such material must be secured so that they should not leach into the ground water.	Complied. Major construction activities have been completed. An Integrated Waste Management Plan for Operation Phase has 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 has been disposed-off to GSPCB authorized recyclers. Major construction activities have been completed and the airport is Operational.
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 CTC vide letter No. 12/2023-PCB/1617143/R00011760 dated 13/04/2023, which is valid till 01/08/2027.





No.	Reference No.	Conditions	Compliance
			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. 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. Environment Policy approved by Board of Directors is in place. Complied.
25.	4 (A) (xxv)	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.
В.	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	Complied.



No.	Reference No.	Conditions	Compliance
		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	Major construction activities have been completed. Scheduled commercial airport operation commenced on 5th 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.
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 at 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	Complied. All excavation and filling activities for airport project have been completed.



No.	Reference No.	Conditions	Compliance
		aspects of people, only in approved sites with the approval of competent authority.	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. Major construction activities have been completed. Scheduled commercial airport operation commenced on 5th January 2023. Vehicles hired for bringing construction material to the site were in good condition and carried Pollution Under Control (PUC) certificate and conformed to applicable air and noise emission standards, during construction phase. (Sample is enclosed in Annexure-1A).





No.	Reference No.	Conditions	Compliance
			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 Central Govt. & State Govt.
32.	4 (B) (vii)	Fly ash usage shall be explored as building material in the construction as per the provisions of Fly Ash Notification of September, 1999 and amended as on 27 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.
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 dua plumbing system.





No.	Reference No.	Conditions	Compliance
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.
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



No.	Reference No.	Conditions	Compliance
			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. All construction / excavation / filling activities have been completed. Currently, airport is in Operation.
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



No.	Reference No.	Conditions	Compliance
			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 October 2022 to March 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.
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.
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 D Civil Aviation (DGCA), GoI, New Delhi vide their letter no. AV.20024/17/00-AL dated 27th July 2017.





No.	Reference No.	Conditions	Compliance
			 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.
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 October 2022 to March 2023 are enclosed as Annexure – 3 .



No.	Reference No.	Conditions	Compliance
54.	5	These stipulations would be enforced among others under the provisions of Water (Prevention and Control of Pollution) Act 1974, the Air (Prevention and Control of Pollution) Act 1981, the Environment (Protection) Act, 1986, the Public Liability (Insurance) Act, 1991 and EIA Notification 2006, including the amendments and rules made thereafter.	Relevant environmental acts and rules are being complied with.
55.	6	All other statutory dearances 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 Haif yearly EC compliance reports submitted earlier). List of approval / clearances / permits obtained during October 2022 to March 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 &	Complied. EC was published in Tarun Bharat and Navhind Times on 31st August 2015.





No.	Reference No.	Conditions	Compliance
		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.	
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 days as prescribed under Section 16 of the National Green Tribunal Act, 2010.	Noted.





No.	Reference No.	Conditions	Compliance
60.	11	The environmental statement for each financial year ending 31st March in Form-V as is mandated to be submitted by the project proponent to the concerned State Pollution Control Board as prescribed under the Environment (Protection) Rules, 1986, as amended subsequently, shall also be put on the website of the company along with the status of compliance of EC conditions and shall also be sent to the respective Regional Offices of MoEF&CC by e-mail.	Complied. For FY 2021-22, Environmental Statement for temporary construction plants <i>viz.</i> , Hot Mix Plant, Batching Plant, Wet Mix Macadam (WMM) Plant and Crushing Plants during have been submitted to GSPCB. For FY 2022-23, Environmental Statement will be submitted by 30 th Sept 2023.
Additi	onal NGT Con	ditions vide NGT order dated 21/08/2018	
	A	Air Environment	
61.	1	Total Suspended Particulate Matter (SPM), Respirable Particulate Matter (RPM) during construction phase. Un-burnt and Hydro Carbons (HC), Lead (Pb), CO ₂ , SO ₂ , CO ₂ , SOOT and Oxides of Nitrogen (NOx) during operation phase are going to be major pollutants in this kind of project. Besides, fugitive emissions of Volatile Organic Compounds (VOC) during fuel handling can be another issue for ambient air environment. The provision of only 6 (six) Air Quality Monitoring Stations is inadequate as sampling duration has been given as 'twice a week, 4 weeks in a season as per CPCB standards for NAAQM, 1994. It would be appropriate if the Project Proponent establishes real time online continuous Air Quality Monitoring Station also which is connected to CPCB server	Complied. Environmental Quality Monitoring of Suspended Particulate Matter (SPM), PM ₁₀ , PM _{2.5} , SO ₂ , CO2, NOx, CO, Pb and VOC are being conducted. The AAQ Monitoring report is enclosed as Annexure-2 . Real-time Online Continuous Ambient Air Quality Monitoring Station (CAAQMS) has been installed and commissioned at GSPCB approved location.





No.	Reference No.	Conditions	Compliance
		and capable of monitoring all relevant and critical parameters and mitigation measures taken.	
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 at additional 3 locations in the State of Maharashtra is enclosed as Annexure 42.
	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, GoG 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 reports for the same are enclosed in Annexure-2 .
	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	Complied.





No.	Reference No.	Conditions	Compliance
		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.	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 falling in the State of Maharashtra be also monitored and documented.	Complied. Noise Monitoring at additional 3 locations 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 related wastes. Littering on sites and beyond the sites needs to be adequately prevented and controlled.	Complied. All major construction activities have been completed. Secondary containment of adequate capacity was provided at bulk bitumen,





No.	Reference No.	Conditions	Compliance
			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. All 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. Gabior 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 even 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.



No.	Reference No.	Conditions	Compliance
74.	3	Concerns have been raised by appellants with regard to plant species 'Dipcadi concanense' which has been claimed to be a threatened plant. This claim of the appellants has been negated by the respondent by producing a documentation of Botanical Survey of India, Western Regional Centre, Pune, Maharashtra titled as "A Note on Occurrence and Distribution of Dipcadi concanense". By invoking Precautionary Principle, we direct the Project Proponent to draw up a Conservancy by Plan/Scheme for 'Dipcadi concanense' in collaboration with Forest Department, State of Goa and Botanical Survey of India and ensure its implementation.	Complied. Dipcadi Concanense is conserved in a forest conservatory by Forest Department, GoG.
	F	Socio-economic Environment	
75.	1	Adequate drills with respect to implementation of Disaster Management plan needs to be carried out at regular intervals so as to ensure preparedness and rapid response to any disasters both man-made or natural.	Complied. For the construction phase of the project, 'Onsite Emergency and Disaster 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.





No.	Reference No.	Conditions	Compliance
76.	2	Although 'Disaster Management Plan' as Annexure-II is part of EIA Report under the Sub head 1.2.1- National Disasters needs further elaboration especially in terms of Emergency Response Measures, Rules and Responsibility, Mitigation, etc.	Complied. For the construction phase of the project, 'Onsite Emergency and Disaster 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	lum to EC dat	ed 23 rd March 2020	
	I	Statutory compliance	
77.	(i)	The project proponent shall obtain certificate from Chief Wildlife Warden (CWLW) of State through State Government that none of the area of the project falls in the notified Eco-sensitive Zone (ESZ) and no activity prohibited in the Eco-sensitive zone will be taken up.	Submitted & Complied. Obtained Certificate from Chief Wildlife Warden (CWLW), GoG, mentioning that none of the area falls in notified Eco-Sensitive Zone (ESZ). (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24th May 2021).
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 attached in Annexure-4.





No.	Reference No.	Conditions	Compliance
79.	(iii)	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. (Refer Annex – 4 of Half yearly EC compliance submitted vide letter no. GGIAL/MoEF&CC-EC/2021-2022/0688 dated 24th May 2021).
	II	Air quality monitoring and preservation	
80.	(i)	The project proponent shall install system to carryout Ambient Air Quality monitoring for common/criterion parameters relevant to the main pollutants released (e.g. PM_{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 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 .





No.	Reference No.	Conditions	Compliance
82.	(iii)	Soil and other construction materials should be sprayed with water prior to any loading, unloading or transfer operation so as to maintain the dusty material wet	Complied. All earthwork – cut and fill activities for Airport have been completed.
83.	(iv)	The excavation working area should be sprayed with water after operation so as to maintain the entire surface wet.	Complied. All earthwork cut and fill activities for Airport have been completed.
84.	(v)	Excavated materials shall be handled and transported in a manner that they do not cause any air pollution.	Complied. All earthwork cut and fill activities for Airport have been completed.
85.	(vi)	The soil/construction materials carried by the vehicle should be covered by impervious sheeting to avoid leaking of the dusty materials.	Complied. All earthwork – cut and fill activities for Airport have been completed.
	III	Water quality monitoring and preservation	
86.	(i)	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.	(ii)	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 channels 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.





No.	Reference No.	Conditions	Compliance
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 Plant is installed & commissioned.
89.	(iv)	Proper drainage systems, emergency containment in the event of a major spill during monsoon season etc. shall be provided.	Complied. Proper drainage systems & Oil Water Separator (OWS) have been provided. 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 prepared and approved from GSPCB.





No.	Reference No.	Conditions	Compliance
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 the surface run off, pre-treatment must be done to remove suspended matter, oil and grease.	Complied. Rainwater harvesting for roof runoff and surface runoff has been implemented as per WRD, GoG approved rainwater harvesting plan.
	IV	Noise monitoring and prevention	
94.	(i)	Notification G.S.R. 568(E) dated 18.06.2018 of MoEF&CC regarding Ambient Air Quality Standards with respect to Noise in Airport Noise Zone shall be complied with.	Airport Noise Zone Mapping is under progress.
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.	(111)	Noise from vehicles, power machinery and equipment on-site should not exceed the prescribed limit. Equipment should be	Complied. DG sets are installed with acoustic enclosures. Random workplace noise





No.	Reference No.	Conditions	Compliance
		regularly serviced. Attention should also be given to muffler maintenance and enclosure of noisy equipment's.	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 building shall be restricted to the permissible levels to comply with the prevalent regulations.	Complied. Noise level monitoring is being carried out at airport boundary through MoEF&CC 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.	(ii)	Initiatives such as Green Infrastructure Development program, adoption of less emission intensive technologies, renewable energy	Complied.





No.	Reference No.	Conditions	Compliance
		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.	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 IGBO Platinum Certificate from CII.
	VI	Waste Management	
102.	(1)	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 stockpiles were managed and properly stabilized to minimize dus emission and sediment runoff.
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 appointed to handle all wastes.



No.	Reference No.	Conditions	Compliance
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 Waste Management Plan has been prepared and same has been approved by GSPCB.
	a.	Trash collected in flight and disposed at the airport including segregation, collection and disposed.	a. Separate arrangement 'Airside Waste Transfer Station' has been
	b.	Toilet wastes and sewage collected from aircrafts and disposed at the Airport.	provided to collect the trash from flights, Same is then transferred to
	C.	Wastes arising out of maintenance and workshops	Integrated Solid Waste Management
	d.	Wastes arising out of eateries and shops situated inside the airport complex.	Facility. b. Night Soil Pit has been provided to
106.	e.	Hazardous and other wastes	collect sewage waste from aircrafts. The same is then pumped to 625 KLD STP for treatment. All waste generated from maintenance and workshop is being collected, segregated, processed and transferred via Integrated Solid Waste Management Facility. All waste from eateries and shops is being collected, segregated, processed and transferred via





No.	Reference No.	Conditions	Compliance
			Integrated Solid Waste Management Facility. e. Hazardous waste is being disposed-off to GSPCB authorized recyclers.
	VII	Green Belt	
107.	(i)	Green belt shall be developed in area as provided in project details, with native tree species in accordance with Forest Department. The greenbelt shall inter-alia cover the entire periphery of the Air Port.	Compliance, as applicable for safe operation of airport, as per DGCA, will be ensured.
108.	(ii)	The plantation species in and around Airport site should be carefully chosen to avoid bird nesting and to improve pollution control and noise control measures. Water intensive and/or invasive species should not be used for landscaping.	Compliance, as applicable for safe operation of airport, as per DGCA, will be ensured.
109.	(iii)	Plantation activity should be taken up under the expert guidance for forest department of Goa, care should be taken that soil erosion measures should be taken up on priority so that the rich mineralized soil of forest is not washed away. The plantation activity should also have an approach of soil conservation where planting is done along the contours avoiding gully formation. As far as possible monoculture plantation should be avoided.	Noted. Compliance is being ensured.
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	GoG, through Goa State Biodiversity Board (GSBB) has carried out plantation of 5 lakh tree saplings as a compensatory afforestation plantation. GGIAL has contributed INR 1 Crore for supporting the compensatory plantation.



No.	Reference No.	Conditions	Compliance
		they will be able to derive economic benefits from such fruit crops and also such trees will provide better biological environment to birds.	Currently till 27th March 2023, GSBB has distributed 6,39,278 number of tree saplings. 50,000 trees will be planted inside the airport premises in the form of Miyawaki Plantation.
111.	(v)	Top soil shall be separately stored and used in the development of green belt.	Complied. The excavated top soil was stored at designated locations within the site and the same was utilized for the landscaping and horticulture purposes within the airport premises.
	VIII	Public hearing and Human health issues	
112.	(i)	Solution/management plan regarding redressal of all the concerns raised in the public hearing must be dearly spelt out in the EMP and shall be implemented in letter and spirit. Compliance for each mitigation plan shall be submitted to Regional Office, MoEF&CC along with half yearly compliance report.	Complied in collaboration with GoG.
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.



No.	Reference No.	Conditions	Compliance
115.	(iv)	Provision shall be made for the housing of construction labour within the site with all necessary infrastructure and facilities such as fuel for cooking, mobile toilets, mobile STP, safe drinking water, medical health care, crèche etc. The housing may be in the form of temporary structures to be removed after the completion of the project.	Complied. Labor colony, within project site, with all 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 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 regular basis.
		Conditions of Hon'ble Supreme Court of India (SCI) Order of	lated 16/01/2020
117.	(i)	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.





No.	Reference No.	Conditions	Compliance
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.	





ANNEXURE - 1A

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

S. No.	Mitigation Measures	Compliance Status
	Mitigation Measures for Air Environment durin	g Construction Phase
01	Ensure preventive maintenance of vehicles and equipment.	All major construction activities (excavation, transportation, filling, grading, levelling, compaction, etc.) have been completed and airport is operational. Sample copy of Field Service Report of vehicle is enclosed as Appendix-A .
02	Ensure vehicles with valid Pollution Under Control certificates are used.	All major construction activities (excavation transportation, filling, grading, levelling, compaction etc.) have been completed and airport is operational Sample copy of PUC is enclosed as Appendix-B .
03	Implement dust control activities such as water sprinkling on unpaved sites.	1



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 sufficier vertical stack height as per the CPCB Guidelines. Phot showing DG with adequate stack height is enclosed if the Appendix-D .
05	Monitor water usage at construction camps to prevent wastage.	Being Complied. All major construction activities have been complete and construction camps are being dismantled. Howeve water usage at the construction camp is being monitore 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.	
07	Ensure supply of temporary/portable toilets for construction staff.	Being Complied. All major construction activities have been complete and labour strength have also reduced. However sufficient number of temporary / portable toilets are provided for construction staff at site. Sample photo of portable toilet facility is enclosed a Appendix-E.



S. No.	Mitigation Measures	Compliance Status
	Mitigation Measures for Land Environment durin	ng 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 soil 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 at 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.	All major construction activities (excavation, transportation, filling, grading, levelling, compaction, etc.) have been completed and the project is under the Operation Phase.
13	Ensure DG sets are provided with acoustic enclosures and exhaust mufflers.	

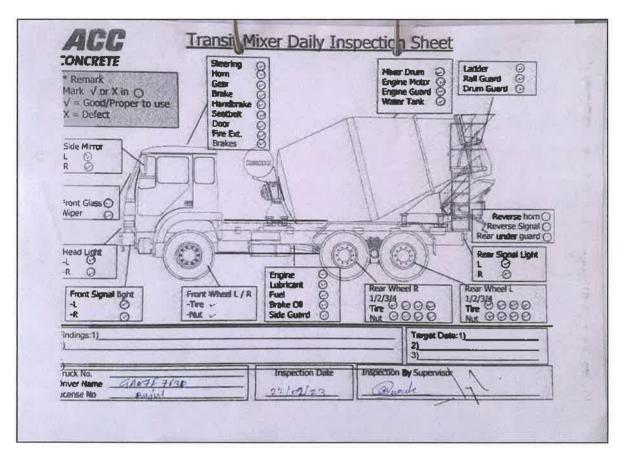


S. No.	Mitigation Measures	Compliance Status
		Photo showing DG with adequate stack height is
		enclosed in the Appendix-D.
14	Ensure vehicle movement is avoided at night, and close to sensitive	Complied during construction phase.
	receptors (such as schools, hospitals, place of worships).	
	Mitigation 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	Being Complied,
	is mandatory.	Labour colony have been established within site with LPG
		based cooking system.
19	Regulating speed limit of the vehicles	Being regulated.





<u>Appendix – A</u> <u>Preventative Maintenance of Vehicles</u>



Field Survey Report for Vehicle





<u>Appendix - B</u> <u>PUC Certificate</u>



PUC Certificate





<u>Appendix – C</u> <u>Dust Control Measures Implemented at Site</u>





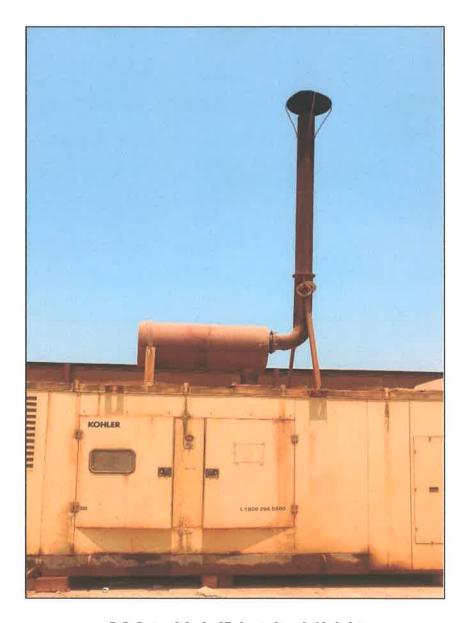


Water Sprinkling on Unpaved Haul Roads





<u>Appendix - D</u> <u>Diesel Generators with Adequate Stack Height & Acoustic Enclosure</u>



DG Set with Sufficient Stack Height





Appendix – E

Portable Toilet Facilities



Portable Toilet at Site





ANNEXURE - 1B

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

S. No.	Mitigation Measures	Compliance Status
	Mitigation Measures for Air Environment of	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. Vehicles and equipment in the operation phase are going through periodical preventive maintenance. The sample service / maintenance report is attached in Appendix-A.
	Mitigation Measures for Water Environment	during Operation Phase
03	Tracking of raw water consumption through water meters	Being Complied. Raw water is being sourced from Tillari Irrigation Canal 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-B .



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-C .
05	Explore opportunities for drip irrigation system for greenbelt	Noted.
	development	Compliance to greenbelt development, as applicable for
		safe operation of airport, will be ensured.
	Mitigation Measures for Land Environment dur	ing Operation Phase
06	Develop and maintain dedicated waste storage areas	Being Complied.
		Integrated Waste Management Facility (IWMF) has been
		developed.
		All bio-degradable and non-biodegradable wastes'
		collection, transportation, segregation, treatment and
		disposal activities are being conducted via IWMF only.
07	Encurs hazardaya wacto atamas avera are were ided with assessed	Reports are attached in Appendix-D .
07	Ensure hazardous waste storage areas are provided with secondary containment	Noted.
	Containment	Secondary containment system has been provided at
		hazardous waste storage areas.
		Reports are attached in Appendix-E .
	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	Airport Noise Zone Mapping Study as per GSR-568 (E)
	flights permitted at the airport	dated 18th June 2018 is in progress. Compliance will be
		made as per the said notification.



S. No.	Mitigation Measures	Compliance Status
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.	Airport Noise Zone Mapping Study as per GSR-568 (E dated 18 th June 2018 is in progress, Compliance will be ensure as per the said notification.
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 airlines who want to fly at night to use the quietest aircraft.	Airport Noise Zone Mapping Study as per GSR-568 (Edated 18th June 2018 is in progress. Compliance will be ensure as per the said notification.
11	Pilots are encouraged not to use reverse thrust between 23:00 and 6:00 except in the interest of safety.	Being Complied. As of now there are no landings between 23:00 and 6:00. However, not to use reverse thrust is communicated to Airlines, taking safety consideration.
	Mitigation Measures for Biological Environment d	luring 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.
	Mitigation Measures for Socio-economic Environmen	nt during Operation Phase
14	Ensure implementation of disaster management plan	Noted. 'Airport Emergency Response Plan' has been prepared and this is being implementation.



<u>Appendix-A</u> <u>Preventive Maintenance of Vehicle and Equipment</u>

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Sample of Job Card and Repair Order for Vehicle





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Check engine to drive and coupling	Limit Coupling to	1000. 1016.		
Cheev engine cowl and gap between fan it.	Charles dague Vice	instant	found or	
Check leakage's from fuel ploing & injector high pressure lines	Charles trees it 26	. A.d.	Nets to replace	e
Check leakage from enhants manifold	Charkes for cylinic	(2)-i	No reakages	
Check ongine oil teasage	charked for origina	e oil	NON SUFFICION OF	
Check mounting bolts of pumps and mateurs	checked efficienting &		Frank OR	
Greating of all binges				
Control Material Nation	Dohe		ck.	
	Deba	fair at 1		
Clean (el coolet	Cooler garen	ok		
Check battery terminals	Saturd ak		0.0	
Chick hypraulic valves pagration	Theor bythalia	Value.	Valed	1 1 1 1
Check condition at all brushes	test site and the	offer, less	in second to valeton	8
le de P	A		1	0
Technician Menature	in Charge Signati		19n	Name and Signatu
	VENICLE NINS : GCG-S VENICLE NAM : 4495 : CHECK POINTS / WORK DESCRIPTION Good Air filter element (outer) Check for discose flanges (Abundings both spiners if found lines Check air discose flanges (Abundings both spiners if found lines Check air discose flanges (Abundings both spiners if found lines Check air house clamps Check fleshours piping connections Check flust pipe connections Check engine to drive sart coupling Check engine to drive sart coupling Check leakage is from exhaust manifold Check leakage from exhaust manifold Check instanting balts of pumps and mators Greasing of all hinges Greasing of plumber block Clical oil cooler Check hybraulic valves operation	MODEL NO. DRESE LEVEL Typin VENICLE NING: 4951 CHECK POINTS / WORK DESCRIPTION Geor. Air filter element (puter) Deer. Air filter element (puter) Check element element Check element element Check element piping connections Check engine to drive used coupling Check engine to drive used coupling Check engine coul and cap between lan is Check element coul and cap between lan is Check leakage is from each piping is injector Nigh prossure Enes Check engine air leaving Check hydraulic valves aperation Check condicion of all brushes Check condicion of all brushes Check condicion of all brushes Check condicion of all brushes	DISSENCE HANS GLOCALS 326-28 VENICLE HANS GLOCALS 326-28 VENICLE HAN 1-4951 CHECK POINTS / MORK DESCRIPTION Geor. Air fitter element (outer) Dear Air fitter element (outer) Disch air desperations of realistor Check air heavy clamps Check and outer have Check and outer have Check and outer said coupang Check endows tipping connections Check endows tipping to invection Check endows tipping connections Check endows tipping to invection Check	MODER NO. Present Super St.

Periodical Checklist for Vehicle Maintenance





Appendix-B

Raw Water Consumption

		OFFICE OF T SDIV,WATER WORKS D	RNEMT OF GOA, E ASSISTANT ENGINEER, ESOURCES DEPARTMENT, VISION VII, DHARGAL, RNEM GOA	
	RAW WAT		PUMP RAW WATER TO MOPA INTE	
CLIENT		SMR, Porvorim Goa	Date of commisioning	
No of p	URIDS	4 nos (2 standby)	Type of mater	Flow meter
Capacit	y of pumps	115 KW each	Bill no	4
Discharge of pumps		100 lps (50 lps each pump)	Bill date	31-12-2022
Reading for Month		1.10.2022 to 31.12.2022	Payment due date	31-04-2023
Serial	no. of Flow meter	120407158	Previous Reading Bills Currecs(A)	ed in 592953.593
		,	Current Reading in c. (B)	720994.557
s no	Month For which	Billed discharge in cumes	Rate per cu m Total i	bill
	31.08.2022 to 30.9.2022	128040.964	20.00 25	60819.28
- 4	31.3.2022	es Twenty Five Laids Shity Thousa	Total 25/ Say 4 25/6	50819.28 0,819.00

Raw Water Consumption through Water Meter (Oct-2022 to Dec-2022)

			OFFICE OF 1 SDIV, WATER	VERNEMT OF THE ASSISTAN RESOURCES I DIVISION VII, I PERNEM GO	T ENGINEE DEPARTME CHARGAL,		
	RAW WAT	ER BILL FOR N	AGZAR LI SCHEME	TO PUMP RAW	WATER TO I	NOPA INTERNATIO	NAL AIRPORT
CLIENT		GMR, Parvar	im Goa		Date of cor	nunisioning	24.12.2020
No of s	ni thans	4 nos 12 stan	dbv)		Type of me	eter	Flow meter
	ly of pumps	115 KW each			Bill no		4
Discharge of dumps		100 lps (50 lps each pump)			Bill date		02.03,2023
Reading for Month		01.01.2023 to 01.03.2023			Payment due date		31-04-2023
	no. of Flow meter				Previous Reading Billed In Cumecs(A)		720994.557
34/12/	SHO. OI FROM MELEC	TEVANI DS			-	eading in currecs	818324,59
s no	Month For which		discharge in cumes	s Rate	per su m	Total bill	
	33_08_2022 to 30.9.2022		97330.083		0.00	1946600.66	
		Langua Minetos	n Lakh Forty Six 11		otal Say dred One or	1946600.66 4 19,46,601.00 10y)	
	ţn:	Shem Hinever	The Brandist A report to the Control of				(Assistant Engineer)

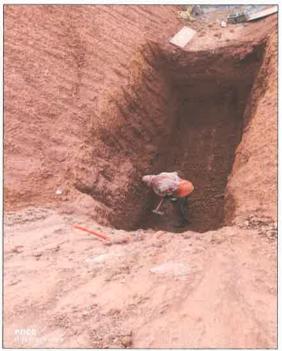
Raw Water Consumption through Water Meter (Jan-2023 to Mar-2023)



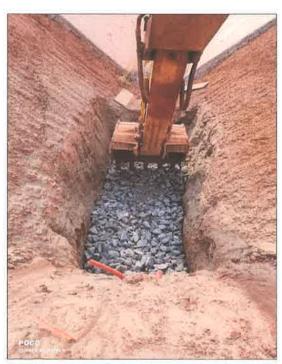


<u>Appendix-C</u> Rainwater Harvesting Structures

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





<u>Appendix-D</u> <u>Integrated Solid Waste Management Facility</u>

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









Waste Management Activities





<u>Appendix-E</u> <u>Secondary Containment at Hazardous Waste Storage Area</u>



Provision of Secondary Containment at Hazardous Waste Storage Area



ANNEXURE - 2

ENVIRONMENTAL QUALITY MONITORING REPORTS FOR THE PERIOD OF OCTOBER 2022 TO MARCH 2023



Sadekar Enviro Engineers Pvt. Ltd.

B-306/307, Plot No. 61, Patot Estule, Reis Magos, Vercin, Allo, Old Bollin Road, Bardez, Porvenni Panay-Gos-403 101 Gon State, India 🏂 (0832) 2411322 / 2411323 ● E-mail : startabgos@ (ediffmall com M-LIFIER SPACE E

Lab accredited by MoEF & CC Valid up to 03.11.2023 # Certified by ISO 9001:2015 & ISO 45001; 2018

		AMB	IENT A	IR QUALITY	MONITOR	ING R	EPOR	RT		
Rep	ort Date	03/11/2)22							
Nan	ne of Client			onstruction Dernational Air						
Λdd	ress of Client	Mopa, Go	a				T			
San	pling Plan	SEEPL/L	D/FMT-	54 Samp	oling Procedure	e No.	S	EEPL/QSP-10	0	
San	ple Collected I	By SEEPL Re	present	ative						
Mor	nth of Sampling	g October 2	2022							
				AMBIENT A	IR LOCATION					
Loca	ation of ambic	nt air station	Mopa	Boundary (G	oa State) (G-A	1)				
٧e	rage Ambient	Temperature (°C)	30.2		ımldity (%)		67	Latitude	N 15º45'5	
Average Wind Speed (km/hr) 1.5			1.8	Average Wind direction (Deg) 238 Longitude E 73"56'3					2.4"	
Instruments Used FPS(FPS(NPM-550) , RD	S(APM-460) &					
Sr. Date of				PARAMETERS						
No	Sampling Report No.		- 1	PM _{to}	PM _{2.5}	S	O2	NOx	CO	SPM
1	03/10/2022	SEE/AR/10/2022	/0068	28.49	5.24	<3	3.00	<6.00	0.03	34.29
2	06/10/2022	SEE/AR/10/2022	/0161	52.83	12.27	5	.08	<6.00	0.05	66.26
3	10/10/2022	SEE/AR/10/2022	/0213	32.14	10.60	<3	3.00	<6.00	0.02	43.44
4	13/10/2022	SEE/AR/10/2022	/0286	42.88	14.26	3	.94	<6.00	0.06	61.62
5	17/10/2022	SEE/AR/10/2022		23.11	8 94	<3	3.00	<6.00	0.03	32.73
6	20/10/2022	SEE/AR/10/2022	/0461	3557	9.65	<:	3.00	<6.00	0.05	46.80
7	25/10/2022	SEE/AR/10/2022	/0489	28.16	8.69	<3	3.00	<6.00	0.02	37.72
8	28/10/2022	SEE/AR/10/2022	/0535	56.59	19.75	4	.40	<6.00	0.07	82.69
9	31/10/2022	SEE/AR/10/2022	/0595	67.92	12.89	5	.33	6.49	0.09	88.92
1	NAA	.QS Limits*		100	60		30	80	4	10
		Units		µg/ m³	μg/m³	Jug	/m ^{,t}	µg/m³	mg/m³	µg/m
		Met hod		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04		82 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182 Part IV

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik
2)Dipali Sawant
Analyzed by

Varsha Pole Reviewed by Anandeep Sawant
Authorized Signatory

HEAD OFF. & LAB : Plot No. A-95, Read No. 16, Kisan Nagar Road, M.L.O.C. Waigle Industrial Area, There - 400 804, Menarashtra Statu, India で、191-22) 2583 3321 / 2583 3322 / 2583 3323 / 2583 3323 ● E-mel | pra@sede.karcnvlin.com / pantidical5@gimili com

Clazcelled By Ministry of Environment Forest & Circuite Change, Gov. Of India 5 O. 867 (E)

BRANCH OFF. : 310, Dempo Towers EDC Pitto Panap-103 001 Gas State, India 7 (0832) 2437045 / 2437184

E-mail sadekaranviro@red:ffmail.com • Website www.sndekaranviro.com • CIN - U45209MH1998P1 C-1163 Page 53 of 377

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2881-DTH-2020)	-	23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 991-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	-	The state of the s	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)		19/11/2022
	The second secon	- COLEME COST	13/11/2022



5-306007, Plot Ro. 61, Parel Estate. Hata Magos, Vesses, Mill. Old Betier Road, Blackey, Porveren. Parelli-Gra. 400 101 God Stelle, India. € (0032) 2411322 / 5411323 * E-mail: startsbignaginostRenat com

Lab accredited by MuEF & CC Valid up to 03.11.2823 . Cardilled by ISO 9001.2015 & ISO 45001. 2018.

STAME ILLETTED SZRALLIFE.

		AMBI	ENT A	IR QUAI	ITY MONITORIN	IG R	EPOR	11		_
Reno	ort Date	03/11/2	022							
	e of Client	M/s. Meg C/o GMR	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	ress of Client	Mopa, Go						Learney John	170	-
Sam	pling Plan	SEEPL/L	D/FMT	- 54	Sampling Procedure	e No		SEEPL/QSF	-10	_
Sam	ple Collected B	By SEEPL R	epreser	itative		_	_			_
Mon	th of Sampling	October	2022				_			
					T AIR LOCATION		VE 4.93			
21.1	ation of ambier	Company of the Compan	-		n Boundary(Goa Sta	ite) (65	Latitude	N 15°42'06	1"
	and the second s	l'emperature (°C)	30.6		e Humidity (%)		-	Longitude	E 73º49'21	
Average Wind Speed (km/hr) 1.2					e Wind direction (D		228	Annual representation of the least of the le	673 77 61	
Inst	ruments Used		FPS(/	APM-550)	, RDS(APM-460) &C	PAR	AMET	ene		
Sr. Date of Report No.		-	-	PM _{2.5}	-	O ₂	NOx	CO	SPM	
No	Sampling			PM ₁₀	-		200	<6.00	0.02	32.33
1	03/10/2022	SEE/AR/10/2022,	0069	21.87	9.65	-	.00	<6.00	0.03	33.70
2	06/10/2022	SEE/AR/10/2022,	0162	25.88	7.15	-	1.00			26.3
3	10/10/2022	SEE/AR/10/2022	/0214	19.76	6.11	_	1.00	<6.00	0.02	-
4	13/10/2022	SEE/AR/10/2022	/0287	22.34	7.94		3.00	<6.00	0.03	31.2
5	17/10/2022	SEE/AR/10/2022	/0397	21.06	6.86		3.00	<6.00	0.02	28,4
6	20/10/2022	SEE/AR/10/2022	/0462	26.87	8.73	<3	3.00	<6.00	0.03	36.1
7	25/10/2022	SEE/AR/10/2022	/0490	22,85	7.73	_	3,00	<6.00	0.02	31.3
В	28/10/2022	SEE/AR/10/2022	/0536	51.90	12.52	3	.06	<6.00	0.06	70.3
9	31/10/2022	SEE/AR/10/2022	/0596	62.58	14.10		.20	<6.00	0.05	82.1
	NAA	QS Limits*		100	60		80	80	4	-
-		Units		μg/ m ³	μg/m ³		z/m³	μg/m³	mg/m ³	pg/n
		Method		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04		5182 art 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 518 Part

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

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Varsha Pole Reviewed by

Aparideep Sawant Authorized Signatory

HEAD OFF, & LAB : Flinting A-15, Rosel No. 10, Kings Hoper, M./ D.C. Wegts installar Area, Thirties - 400 504. Managament Street, India-(C) (81-23) 2503 3321 / 2593 3322 / 2593 3323 / 2593 3324 € (max. projection more com / prodesurbiggment com Casemir Dy Marriery of Environment, Flored & Chester Change, Gost Otherin. S. O. 857 (E):

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (5R NO.2871-DTG-2020)		23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 992-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	+	23/09/2022	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date	
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022	



6.300/307, Pin No. 61, Paid Estate, Swis Magos, Virson, Alta, Old Balan Road, Parche, Provenn Porsy-Cos-403 101 Gos Sain, India - © - (0002) 2411322 / 2411323 • E-mail: stambgood/red/Balat tom

Lab accredited by MoEF & CC Valid up to 63.11.2023 ★ Corolled by ISO 9001.2015 & ISO 45001. 2018.

STANCIAL TOPS

		AMBIE	NT A	R QUAL	TY MONITORIN	G REPO	DRT		
Reno	Report Date 03/11/2022								
	Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited								
Address of Client Mopa, Goa						**	SEEPL/QSI	0.10	
Sam	pling Plan	SEEPL/L			Sampling Procedure	No.	SEELI/GS	-10	
Sam	ple Collected B	y SEEPL R	epreser	tative					_
Mon	th of Sampling	October	2022						
				AND RESIDENCE AND ADDRESS OF THE PARTY.	T AIR LOCATION				
	ation of ambier		Andrew Contract	r(Goa Stat		68	Latitude	N 15°45'37	.3"
		Temperature (°C)	31.3		Humidity (%)		and the second second	E 73°53'14	
Average Wind Speed (km/hr) 1.9				Average	Wind direction (De	DV .	The second secon	14.74 500	
Instruments Used FPS(A				(PM-550),	RDS(APM-460) &G	PARAMI	TERS		
Sr.	Date of Sampling	Report No.	1	PM ₁₀	PM _{2.5}	SO ₂	NOx	co	SPM
No		EEE (AB (10/3022)	0020	18.66	8.73	<3.00	<6,00	0.03	28.02
1	03/10/2022	SEE/AR/10/2022/	2010/05/2011	13.72	5.49	<3.00	<6.00	0.02	19.91
2	06/10/2022	SEE/AR/10/2022,	-	28.94	5.36	<3.00	<6.00	0.03	35.26
3	10/10/2022	SEE/AR/10/2022,			11.39	6.05	12.58	0.07	83.92
4	13/10/2022	SEE/AR/10/2022		69.45	5.20	<3.00	<6.00	0.02	22.80
5	17/10/2022	SEE/AR/10/2022		17.15	7.03	<3.00	<6.00	0.03	31.91
6	20/10/2022	SEE/AR/10/2022	444	24.60	7.40	<3.00	<6.00	0.02	40.14
7	25/10/2022	SEE/AR/10/2022		31.80	12.48	6.23	<6.00	0.65	52.35
8	28/10/2022	SEE/AR/10/2022		36.99	33.77	3.30	6.64	0.10	138.6
9	31/10/2022	SEE/AR/10/2022	/0597	80.34	60	80	80	4	-
	NA/	QS Limits*		100		μg/m³	μg/m ^x	mg/m ³	µg/m
	1	Units		μg/ m ³ IS 5182(Part 23)	Lab SOP NO.: SEELD/SOP-AA-04	1S 5182 (Part 02	IS 5182 (Part	100	IS 518 Part IV

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Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2)Dipali Sawant 90

Analyzed by

Varsha Pole

Reviewed by

Anandeep Sawant Authorized Signatory

Standard By Monary of Environment, Propert & Chrosto Change Stant Ottoba, S. 43, 857 (6)

BRANCH OFF: 110, Demps Towers, EDC Patto, Panal-403 001. Gua State, lextia (f): 10ff32) 2437046 / 2437164

Page 57 of 377

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1719-DTI-2012)	LES-CCL/FF/MF/SC/1716	13/07/2022	12/07/2023

UV Spectrophatometer

Sr No. Equipment Name		Calibration		
01	UV	In House Calibration		

Fine Particulate Sampler (SR NO. 1114 L 21)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2021-22/FLOW/3683	The second second	07/01/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022



9-306/207, Plot No. 61, Palel Essays, Rain Magne, Venent Alts, Old Splim Road, Bardoz, Purvorni, Parisii Gou-403 1811 Son Stain, Irdia, 🖑 (6832) 2411322 / 2411323 • E-mail : Multibgon@redBholi.com

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SHA HHEE SHEDE

		AMBI	NT AI	R QUAL	ITY MONITORING	KEPOI	(1		
Reno	rt Date	03/11/2	022						
M/e Morawide C				Constructi ernations	on DMCC Il Airport Limited				
Address of Client Mopa, Goa			-		N-	SEEPL/QSP	-10		
Samı	pling Plan	SEEPL/L	According to the Contract of t	-	Sampling Procedure	NO.	appr av dor	4.0	
	ple Collected B	y SEEPL R	-	tative					
Month of Sampling October 2022									
					T AIR LOCATION	43			
	Cation of the control				nem (Goa State)(G-A	68	Latitude	N 15941'41	.9"
Aver	rage Ambient T	emperature (°C)	30.4		e Humidity (%)	-	Longitude	E 73º50'16.	
Average Wind Speed (km/hr) 1.7			Average Wind direction (Deg) 229 Longitude E 73°50'16.6 APM-550), RDS(APM-460) &GPS (APM - 411)						
Instruments Used FPS(/			APM-550)	RDS(APM-460) acr	ARAME	TERS			
Sr.	Sr. Date of Report No.		+	PM ₁₈	PM _{2.5}	502	NOx	CO	SPM
No	Sampling	1,200,500,000			17.34	<3.00	<6.00	0.05	65.53
1	03/10/2022	SEE/AR/10/2022		46.95		3.97	<6.00	0.07	52.32
2	06/10/2022	SEE/AR/10/2022	/0164	40.04	11.39		<6.00	0.02	30.4
3	10/10/2022	SEE/AR/10/2022	/0216	22.34	7,44	<3.00		0.03	26.9
4	13/10/2022	SEE/AR/10/2022	/0289	19.93	6.86	<3.00	<6.00	0.03	30.65
5	17/10/2022	SEE/AR/10/2022	/0399	23.12	7.49	<3.00		0.03	32.4
6	20/10/2022	SEE/AR/10/2022	/0464	25.83	6.11	<3.00	<6.00	0.02	27.5
7	25/10/2022	SEE/AR/10/2022	/0492	18.28	8.86	<3.00	<6.00	0.02	39.1
В	28/10/2022	SEE/AR/10/2022	2/0538	30.62	7.42	<3.00 4.83	<6.00	0.05	59.2
g	31/10/2022	SEE/AR/10/2022	2/0598	37.59	19.01		T district.	4	6.5160
1		QS Limits*		100	60	80	80	mg/m³	μg/n
		Units		μg/ m ³ IS 5182(µg/m³ Lab SOP NO: SEE/LD/SOP-AA-04	µg/m ³ IS 5182 (Part 02)	1S 5182 (Part 06)	100	IS 518 Part I

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik Access 2)Dipali Sawant

Analyzed by

Varsha Pole

Reviewed by

Amendeep Sawant Authorized Signatory

HEAD OFF, & LAB : Pictific A-Vb. Rosethic Nil. Kseen Ragar Roset, Mil-D.C. Wager Industrial Area, Thorse - 403 004: Minuscribin State, India (f) (fit-20) 2883 5321 / 2583 3322 / 2583 £323 / 2583 £324 • E-mil: prof(summamments nom) prodetin5@genet.com

Saparant By Minutey of Emissionnesis. Famus & Christo Charges. Glod CP India. S. D. 857 (b)

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Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 2893-DTJ-2020)	4	23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration	
01	UV	In House Calibration	

Fine Particulate Sampler (SR NO. 983-CTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	- 6	23/09/2022	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date	
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	39/11/2022	



\$3-305COT, Ples No. 61. Point Extent. Hers Mayor, Veren, Alte, Old Brote Houst, Barrier, Plessonth, Parag-Gos-400 101. Gue State, India (C., 19832) 2411322 / 3411323 * E-mail: startidipologicad@eal.com

Lab according by MoEF & CC Valid up to 63 \$1,2023 * Certified by ISO 9001,2015 & ISO 45001 - 2018

ENE STREET SAL INC.

		AMBI	ENT A	IR QUALI	TY MONITORING	S REPUI	(1		
Repo	ort Date	03/11/20	022						
M/s Megawide				Constructional ernational	on DMCC Airport Limited				
Address of Client Mopa, Goa							ereni /OCD 1	0	
Sampling Plan SEEPL/LD/FMT			D/FMT	- 54 S	ampling Procedure	No.	SEEPL/QSP-1	U.	
Sample Collected By SEEPL Represen				tative					
Month of Sampling October 2022									
	<u> </u>			THE RESERVE OF THE PARTY OF THE	AIR LOCATION	TIC AE			
Cation of antonian and				and the same of th	orscodem (Goa State	67	Latitude	N 15º40'38	3.0"
		Temperature (°C)	31.1		Humidity (%)		Longitude	E 73º46'21	-
Average Wind Speed (km/hr) 2.1			Average Wind direction (Deg) 251 Longitude E 73º46 21.2 APM-550), RDS(APM-460) &GPS (APM - 411)						
Instruments Used FPS((PM-550),	RDS(APM-460) &GP	ARAMET	FRS			
Sr.	Date of	Report No.	+	PMss	PM _{2.5}	SO ₂	NOx	CO	SPM
No	Sampling			19.89	5.61	<3.00	<6.00	0.03	25.71
1	03/10/2022	SEE/AR/10/2022/	-		8.73	<3.00	<6.00	0.02	29.43
2	06/10/2022	SEE/AR/10/2022/	-	18.69	- Sanitria	<3.00	<6.00	0.02	31.28
3	10/10/2022	SEE/AR/10/2022/	/0217	23.77	7,73		<6.00	0.03	20.57
4	13/10/2022	SEE/AR/10/2022,		13.54	6.74	<3.00	<6.00	0.03	28.98
5	17/10/2022	SEE/AR/10/2022	-	21.06	7.36	<3.00	<6.00	0.03	37.02
6	20/10/2022	SEE/AR/10/2022		26.78	9.36	<3.00	<6.00	0.03	27.71
7	25/10/2022	SEE/AR/10/2022	_	19.55	6.86	<3.00	<6.00	0.03	40.08
8	28/10/2022	SEE/AR/10/2022		28.16	10.74	<3.00		0.05	50.17
9	31/10/2022	SEE/AR/10/2022	/0599	36.26	12.26	<3.00	<6.00 80	4	20,17
1	NAA	QS Limits*		100	60	80		mg/m³	µg/m
		Units Method		µg/ m³ IS 5182(Part 23)	µg/m³ Lab SOP NO.: SEEALD/SOP-AA-04	µg/m ³ IS 5182 (Part 02)	μg/m ³ IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182 Part IV

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 90 2) Dipali Sawant

Analyzed by

Varsha Pole

Reviewed by

Agandeep Sawant Authorized Signatory

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	ROS- APM 460 (SR NO.2892-DTJ-2020)		23/09/2022	22/09/2023

UV Spectrophotometer

Sr No. Equipment Name		Calibration		
01	UV	In House Calibration		

Fine Particulate Sampler (SR NO. 1119 A 22)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2021-22/FLOW/3682	07/01/2022	07/01/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. D1 DT L14)	20/11/2021	19/11/2022



B-708007, Pau No. W1. Paul Estino, Rive Magno, Weren, Alle, Clot Betw. Road. Biodiaz. Planspren, Panap-Gop 403 181 Gos Biate, India. 10. (1983) 2411332 / 2411334 E-mill. stanlahpos@codBmill.com

Lab accompleted by MoEF & CC Valid up to 63.11.2023 * Certified by ISO 9001-2015 & ISO 45501 - 2018

Same Ure

		AMBII	ENTA	IR QUAL	TY MONITORIN	G REPO	RT		
Rep	ort Date	03/11/2							
-	e of Client	M/s. Meg C/o GMR	awide Goa in	Constructiona ternationa	on DMCC I Airport Limited				
Add	ress of Client	Mopa, Go	AR .				Townson Consum		
Sam	pling Plan	SEEPL/L	D/FM1	- 54	Sampling Procedu	ure No.	SEEPL/QSP	-10	
Sam	ple Collected F	By SEEPL R	eprese	ntative					
Mor	th of Sampling	October	2022						
12000000					T AIR LOCATION				
1 oca	ation of ambier	nt air station	Rajvi		xem (Goa State)(G-/		Facility of	11 1 50 1013	0.02
nVE	rage Ambient	Temperature (°C)	30.2	And the second second second	Humidity (%)	66	Latitude	N 15º48'4	- Control
Ave	rage Wind Spe	ed (km/hr)	1.4	No. of Street,	Wind direction (Deg		Longitude	E 73"52'5	0,2
Inst	ruments Used		FPS(APM-550),	RDS(APM-460) & GI	The second secon	TO 100 TO		
Sr.	Date of	Report No.			P	PARAME'	-		
No	Sampling	Report No.	_	PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	SPM
1	03/10/2022	SEE/AR/10/2022/	0073	13.83	8.61	<3.00	<6.00	0.02	23.14
2	06/10/2022	SEE/AR/10/2022/	0166	16.80	5.24	<3.00	<6.00	0.03	22.08
3	10/10/2022	SEE/AR/10/2022/	0218	19.32	6.45	<3.00	<6.00	0.03	26.07
4	13/10/2022	SEE/AR/10/2022/	-	23.35	7.69	<3.00	<6.00	0.05	31.17
5	17/10/2022	SEE/AR/10/2022/	-	24.54	6.82	<3.00	<6.00	0.02	31.94
6	20/10/2022	SEE/AR/10/2022/	inital distance	30.99	10.52	<3.00	<6.00	0.03	41.86
7	25/10/2022	SEE/AR/10/2022,	AND RESIDENCE PROPERTY.	26.35	5.45	<3.00	<6.00	0.03	32.56
8	28/10/2022	SEE/AR/10/2022,		42.79	19.79	4.93	<6.00	0.05	63.60
9	31/10/2022	SEE/AR/10/2022	0600	49.04	17.88	5.06	7.37	0.06	68.99
-	The second secon	QS Limits*		100	60	80	80	4	- 6
		Units		μg/ m ³	μg/m³	µg/m³	μg/m ⁻¹	mg/m ³	µg/m
		Method		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182 Part IV

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 🏝

2)Dipali Sawant Analyzed by

Varsha Pole Reviewed by

Anangeep Sawani Authorized Signatory

HEAD OFF & LAB | Ptd No. A-95, Road No. 16, Kivan Nager Poad, M.L.D.C. Wagts Industrial Area, There - 499 594, Maharastria Brins, India. 27, (91-22, 2583-3321 / 2583-3322 / 2583-3323 / 2580-3324 & E-mail | Inniff saddition

Sacretical By Mannay of Engineeriesi, Found & Director Change, Direct Of India, S. G. 697 (C)

± 310. Dempe Towers, EDC Paris, Pansj-403 for Gua State, India 95 (0832) 2437548 / 2437164 E-mail: andekarony/rograntifinal.com • Website | www.esckerenero.com • CRF | U45209MH158BBTTC | 16 Page 63 of 377

Respirable Oust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2891-DTJ-2020)		23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 298-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	£I/FF/3539	18/02/2022	17/02/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022



8-305CSF, Plat No. 81. Platet Estate: Revs Magon. Virgen. Alte. Clif Batter Road. Bartlet: Farweiter, Panas-Don-403-101. Ges Bass India 10: 19832) 24113227 3411323 * E-mail: assentgoodjeeddhust.com

Lab accredited by MoEF & CC Valid up to 03.11.2023 & Certified by ISO 9001.2015 & ISO 45001 - 2018

Mark Landson SPRO LIFE

		AMBI	ENT A	IR QUAL	ITY MONITORIN	IG REP	ORT		
Rep	ort Date	03/11/2	022						
Nan	ne of Client			Construct iternation	ion DMCC il Airport Limited				
Add	ress of Client	Mopa, G	oa.						
Sam	pling Plan	SEEPL/I	D/FM	r- 54	Sampling Proceed	ure No.	SEEPL/QS	P-10	
Sam	ple Collected I	By SEEPL R	eprese	ntative					
Mor	th of Sampling	g October	2022						
				AMBIEN	T AIR LOCATION				
Loca	ation of ambie	nt air station	Satar	da(Mahari	ashtra State)(M-A1)			1	
ive	rage Ambient	Temperature (°C)	31.1	Average	Humidity (%)	68	Latitude	N15º43'0	-
Ave	rage Wind Spe	ed (km/hr)	2.1	Average	Wind direction (De	g) 247	Longitude	E 73º46'0	0.2"
Inst	ruments Used		FPS(APM-550),	RDS(APM-460) &G	PS (APM	-411)		
Sr.	Date of	Report No.				PARAMI	TERS		
No	Sampling	report ivo.		PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	SPM
1	03/10/2022	SEE/AR/10/2022,	0074	21.31	8.48	<3.00	<6.00	0.03	29.89
2	06/10/2022	SEE/AR/10/2022,	0167	19,17	9.73	<3.00	<6.00	0.02	29.41
3	10/10/2022	SEE/AR/10/2022	0219	15:82	5.86	<3.00	<6.00	0.02	21.85
4	13/10/2022	SEE/AR/10/2022	0292	14.99	6.24	<3.00	<6.00	0.03	21.43
5	17/10/2022	SEE/AR/10/2022	0402	27.15	6.86	<3.00	<6.00	0.02	34.44
6	20/10/2022	SEE/AR/10/2022	0467	21.15	9.11	<3.00	<6.00	0.03	31.30
7	25/10/2022	SEE/AR/10/2022,	0495	26.13	5.99	<3.00	<6.00	0.02	33.73
8	28/10/2022	SEE/AR/10/2022	-	22.68	8.24	<3.00	<6.00	0.03	31.16
9	31/10/2022	SEE/AR/10/2022	0601	34.64	13.47	<3.00	<6.00	0.06	50.81
	NAA	QS Limits*		100	60	80	80	4	
		Units		μg/ m³	μg/m³	µg/m³	µg/m²	mg/m³	μg/m
		Method		IS 5182(Part 23)	Lab SOP NO : SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182 Part IV

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2) Dipali Sawant

Analyzed by

Varsha Pole Reviewed by

Aplandeep Sawant Authorized Signatory

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BRANCH OFF. 310. Deepor Towers, EDC Petra Panag-403 001. Gos Statu. Irelia (C. 10832) 2437048 / 2437184 E-suit saukkaum reo@redfimet.com • Wrhale www.seckleremen.com • Call - IHEXMANDER TC-116.17

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1461-DTD-2009)	LES-CCL/FF/MF/SC/1715	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 980-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Callbrated on	Calibration due date
01	FPS - APM 550 MINI	-	23/09/2022	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022



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Lab acceedited by MoEF & CC Valid up to 03.11.2023 * Certified by ISO 9001:2015 & ISO 45001 | 2018

SHOW LINES

AMBIENT AIR QUA	ALITY MONITORING REPO	ORT	
03/11/2022			
Mopa, Goa			
SEEPL/LD/FMT- 54	Sampling Procedure No.	SEEPL/QSP-10	
SEEPL Representative	The second second		
October 2022			
	03/11/2022 M/s. Megawide Constru C/o GMR Goa internatio Mopa, Goa SEEPL/LD/FMT- 54 SEEPL Representative	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited Mopa, Goa SEEPL/LD/FMT- 54 Sampling Procedure No. SEEPL Representative	

		AMBIENT AIR LOCATION				
Location of ambient air station	Dingna(Maharashtra State)(M-A2)					
, verage Ambient Temperature (°C)	31.4	Average Humidity (%)	65	Latitude	N 15"46'12.3"	
Average Wind Speed (km/hr)	1.2	Average Wind direction (Deg)	226	Longitude	E 73º49'20.5"	
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS	(APM	-411)		

Sr.	Date of Paned No.	PARAMETERS						
No	Sampling	Report No.	PM ₁₀	PM _{2.5}	SO ₂	NOx	co	SPM
1	03/10/2022	SEE/AR/10/2022/0075	18.76	7.73	<3.00	<6.00	0.02	26.96
2	06/10/2022	SEE/AR/10/2022/0168	20.08	6.18	<3.00	<6.00	0.03	27.24
3	10/10/2022	SEE/AR/10/2022/0220	17.29	5.24	<3.00	<6.00	0.02	22.91
4	13/10/2022	SEE/AR/10/2022/0293	25.93	5.66	<3.00	<6.00	0.03	32.09
5	17/10/2022	SEE/AR/10/2022/0403	15.30	5.16	<3.00	<6.00	0.03	21.30
6	20/10/2022	SEE/AR/10/2022/0468	17.47	6.24	<3.00	<6.00	0.02	24.02
7	25/10/2022	SEE/AR/10/2022/0496	14.61	5.82	<3.00	<6.00	0.02	20.97
8	28/10/2022	SEE/AR/10/2022/0542	33,37	13.74	<3,00	<6.00	0.06	48.23
9	31/10/2022	SEE/AR/10/2022/0602	42.85	11.14	5.05	6.02	0.05	60.30
	NAA	QS Limits*	100	60	80	80	4	- 0
		Units	μg/ m ³	µg/m³	µg/m³	μg/m [∓]	mg/m ²	µg/m²
		Method	IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	(Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182(Part IV)

*NATIONAL AMBIENT AIR STANDARDS (2009)

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1)Aditya Naik 2)Dipali Sawant

Analyzed by

Varsha Pole Reviewed by

Anandeep Sawant Authorized Signatory

HEAD OFF, & LAB. 1 Pile No. A-65, Road No. 16. Know Neper Road, M.1.D-C. Wagte Indiannal Area, There - 400, 604. Matematica State, India € 191-201 2393 3321 / 2583 3323 / 2583 332 / 2583 3

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date	
01		ECL/SEEPL/202122/FLOW/3668	07/01/2022	07/01/2023	

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 01-DTK-2011)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 LC	EI/FF/3543	18/02/2022	17/02/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date	
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022	



9 309/307, Part No. 61, Pater Bassier, Ross Magos, Venere, Atts. Clif Betim Road, Bardez, Porvores, Pares-Goa-603 101. Gou State, Initia. (C.) (0832) 2411322 / 3411323 * E-mail: startatignos((redffmult.com

Lisb accredited by MoEF & CC Volid up to 83.11 2023 * Certified by ISO 9001:2015 & ISO 45001 : 2018.

SPOR MERCE SERVICIES.

		AMBI	ENT A	IR QUAL	ITY MONITORIN	G REPO	RT		
Rep	ort Date	03/11/2	022						
Nan	ne of Client	M/s. Me C/o GMF	gawide I Goa ir	Constructi iternationa	ion DMCC Il Airport Limited				
Add	ress of Client	Mopa, G	oa						
Sam	pling Plan	SEEPL/I	D/FM	- 54 Sampling Procedure No. SEEPL/QSP-10					
Sam	ple Collected i	By SEEPL R	eprese	ntative					
Mor	th of Sampling	g October	2022						
				AMBIEN	T AIR LOCATION				
Loca	ation of amble	nt air station	Neta	rde(Mahar	ashtra State)(M-A3)	-			
.ve	rage Ambient	Temperature (°C)	30.9	Average	Humidity (%)	63	Latitude	N 15º46'1	
Ave	rage Wind Spe	ed (km/hr)	1.8		Wind direction (Deg		Longitude	E 73°50'4	8.0"
Inst	ruments Used		FPS(APM-550),	RDS(APM-460) &GI	S (APM -	-411)		
Sr.	Date of	Report No.	PARAMETERS PARAMETERS						
No	Sampling	200		PM ₁₀	PM _{2.5}	SO2	NOx	CO	SPM
1	03/10/2022	SEE/AR/10/2022/	0076	19.55	7.53	<3.00	<6.00	0.02	27,72
2	06/10/2022	SEE/AR/10/2022/	0169	22.86	9.20	<3.00	<6.00	0.03	30.16
3	10/10/2022	SEE/AR/10/2022,	0221	16.13	6.32	<3.00	<6.00	0.02	22.52
4	13/10/2022	SEE/AR/10/2022,	0294	13.03	5,90	<3.00	<6.00	0.03	19:01
5	17/10/2022	SEE/AR/10/2022	/0404	17.53	5.03	<3.00	<6.00	0.02	23.33
6	20/10/2022	SEE/AR/10/2022,	0469	18.15	8.23	<3.00	<6.00	0.03	27.01
7	25/10/2022	SEE/AR/10/2022,	0497	20.08	5.36	<3.00	<6.00	0.03	26.15
В	28/10/2022	SEE/AR/10/2022,	/0543	32.31	9.81	<3.00	<6.00	0.02	43.62
9	31/10/2022	SEE/AR/10/2022	/0603	36.66	9.56	<3.00	<6.00	0.06	46.70
	NAA	QS Limits*		100	60	80	80	4	- 2
		Units		µg/m³	μg/m³	μg/m³	µg/m³	mg/m³	μg/m
		Method		IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP-AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182(Part 10)	IS 5182 Part IV

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2)Dipali Sawant 9000

Analyzed by

Varsha Pole

Reviewed by

Aplanteep Sawant Authorized Signatory

HEAD OFF & LAB : Pet No. A-95 Read No. 16 Pour Nage Hast M.LD.C. Wage Educate Ann. Trans - 400 Spt. Manistrators Stem, Pelis. ©: (91-27) 29/3 3321 / 2563 3322 / 2583 3323 / 2583 3324 € E-mill: (miQS-othranovieu.com / paulieturS@gmill.com) Costettic fig Minutey of Environment, Forest & Dimeter Change, Gold Of India; S. U. 657-E)

BRANCH DFF. 310, Dumin Towon, EDC Pato, Paragi-403 001, Goa State, Index (C) (0037) 3437048 / 2437184

Page 69 of 377

Calibration details of Equipment used for Sampling & Analysis

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1718	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No. Equipment Name		Calibration
01	UV	 In House Calibration

Fine Particulate Sampler (SR NO. 977-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI		23/09/2022	22/09/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022



8-306/307, Plot No. 67, Pater Ensier, Ross Magen, Vinner, Ato, Cital Busin Road, Bandaz, Porsperin, Parag-Grip 463, 161, Goa State, India, (C): (DS32) 2411322 / 2411323 * E-mail: starteligend@reddfinal.com

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SPANIES.

	AIR QUALITY	MONITORING REPO	ORT			
Report No.	SEE/AR/10/2022/0222	Date of I	S5U6	14/10/202	2	
Name of Client	M/s. Megawide Construction C/o GMR Gos international	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa	Mopa, Goa				
Sample Collected By	SEEPL Representative		Environmen	tal condition of Lab		
Date of Sampling	10/10/2022	Temperature(°C)	27.9	Humidity (%)	64	
Analysis Started On	13/10/2022	Analysis Complete	ed On	14/10/2022		

Location of ambient air station	Mopa Boundary (Goa State)
instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

	5011	Contraction Committee Committee			_
Sr. No.	Parameters	Result	Unit	Method	
01.	Total VOC	<1.0	ppm	Method 18	

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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Avenueep Sawant Authorized Signatory

Calibration details of Equipment used for Sampling & Analysis

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	101-DTD-2014	EI/FF/3523	18/02/2022	17/02/2023



B. 386/307, Plot No. 91, Potel Estate, Reic Magnic, Verein, Alto, Cld Bettin Road, Bactery, Porvision, Pance-Gras-403 101, Gos State, Jedos, 101, (01) (0832) 7411322 / 7411323 * Elimet Intribligaci@notiffmell.com

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	AIR QUALITY	MONITORING REP	ORT			
Report No.	SEE/AR/10/2022/0223	Date of	Issue	14/10/202	2	
Name of Client	M/s. Megawide Construction C/o GMR Goa international	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Gos	Mopa, Goa				
Sample Collected By	SEEPL Representative		Environmen	tal condition of Lab		
Date of Sampling	10/10/2022	Temperature(°C)	27.9	Humidity (%)	64	
Analysis Started On	13/10/2022	Analysis Complet	ed On	14/10/2022		

Location of ambient air station	HSD Bunk (Inside Mopa Airport Premises)
Instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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Anartieep Sawant Authorized Signatory

Calibration details of Equipment used for Sampling & Analysis

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/3524	18/02/2022	17/02/2023



B-309/367, Plot No. 61, Patel Estate, Role Magen. Venere, Alto, Cell Esten Road, Bardez, Poneren. Panaj-Gio-603 101. Gos State, India (C): (0002) 2411322 / 2411523 * E-mail: statistique@neitRend.com

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	AIR QUALITY	MONITORING REPO	RT		
Report No.	SEE/AR/10/2022/0224	SEE/AR/10/2022/0224 Date of Issue		14/10/202	2
Name of Client	M/s. Megawide Construction C/o GMR Goa international	n DMCC I Airport Limited			
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative		Environmen	tal condition of Lab	
Date of Sampling	10/10/2022	Temperature(°C)	27.9	Humidity (%)	64
Analysis Started On	13/10/2022	Analysis Completed On		14/10/2022	

Location of ambient air station	Shemecheadvan Boundary (Goa State)	
Instruments Used	Organic Vapour Sampler	

Chemical Testing - Atmospheric Pollution

	CII	entires rearris . Artic	apricing a comme	
Sr. No. Parameters		Result	Unit	Method
		-4.0	ppm	Method 18
01.	Total VOC	<1.0	hhui	Michiga 19

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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Varsha Pole Reviewed by Anandeep Sawant Authorized Signatory

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E-man: soddwarenviro@end firmit ucm • Webelle I www.eadleureneda.com • CH - U4530MH rusering and Page 75 of 377

Calibration details of Equipment used for Sampling & Analysis

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
OT	OVS Sampler	101-DTD-2014	EI/FF/3523	18/02/2022	17/02/2023



6-309357 Plot No. 81 Pated Estate. Non-Magan, Venera, Alta, Citel Brown Hoad, Bandat, Printerer, Parent Gen-803-101 Gos Siste, Auto. (C): (0532) 2411322 / 241323 * E-mail: statabgooffredfinal.com

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	WORKPLACE NO	ISE LEVE	L MONITORING RE	EPORT		
Report No.	SEE/AR/10/2022/0295	SEE/AR/10/2022/0295-0300 Date of Issue			15/10/2022	
Name of Client	M/s. Megawide Constru C/o GMR Goa internati					
Address of Client	Mopa, Goa					
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/Q	SP-10	
Sample Collected By	SEEPL Representative	fi.				
Date of Sampling	13/10/2022	13/10/2022				

Chemical Testing - Atmospheric Pollution

Barres	2000000	Sampling Location	Noise in dB (A)
Sr. No.	Report No.	(From 1.0 meter off)	Day Time
01.	SEE/AR/10/2022/0295	AMPL Batching Plant	72.4
02	SEE/AR/10/2022/0296	KMV HMP & WMM Plant	79.2
03.	SEE/AR/10/2022/0297	Ultratech Batching Plant	70.1
04.	SEE/AR/10/2022/0298	PTB L1- Immigration Area	82.9
05.	SEE/AR/10/2022/0299	PTB Forecourt Area	79.4
06.	SEE/AR/10/2022/0300	MRSS Building	62.2

Occupational Exposure Limit for noise as per OSHA is 90dB (A) TWA (8hrly).

*dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.

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

Leg: It is the energy mean of the noise level over a specified period.

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: Test results relate only to the condition prevailing at the time of sampling

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Reviewed by

Anancees Sawant Authorized Signatory

Calibration Details of Equipment used for Sampling

Noise Level Meter No.3 (HE:002221H)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/S64	23/07/2022	22/07/2023



B-30x(307), Peu No. 81, Patal Estato, Nico Magos, Verent. Alto, Ott Balen Road. Banks; Prinyrenn, Perag-Gos-403 101. Gua Sasto, India: (C. ., (00012) 2411322 / 2411323 * E-mail. startidgesi@reddfinial.com. Shift the

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	NOISE LEVE	L MONITORING RE	EPORT	
Report No.	SEE/AR/10/2022/0470-0471, 0 0346, 0385, 0454, 0455, 0347,	27/10/2022		
Name of Client	M/s. Megawide Construction D Clo GMR Goa international Air	MCC		
Address of Client	Mopa, Goa			
Sample Collected By	SEEPL Representative			The second secon
Sampling Plan	SEEPLA, DIFMT- 54	Sampling Pro	cedure No.	SEEPL/QSP-10

Chemical Testing - Atmospheric Pollution

Sr.	Date of	author comme	Statio	Zo Sampling Location		lay Time se in dB(A)		light Time ise in dB		
No	Monitoring	Report No.	nID	ne	Jangang Country	Lmin	Lmax	Leq	Lmin	Lmax	Leq
1.	20/10/2022	SEE/AR/10/2022/0470	G-N1	1	Mopa Boundary	32.2	74.6	61.6	30.1	62.9	49.5
2.	20/10/2022	SEE/AR/10/2022/0471	G-N2	1	Shamecheadvan Boundary	35.8	71.8	55.7	30.1	67.3	52.4
3.	16/10/2022	SEE/AR/10/2022/0388	G-N3	C	Nagzar	31.9	77.9	57.8	30.0	65.1	49,4
4.	16/10/2022	SEE/AR/10/2022/0389	G-N4	R	Purva Casarvamem	30.0	71.4	49.9	30.0	61.3	39.3
5.	15/10/2022	SEE/AR/10/2022/0386	G-N5	R	Chandel	30.0	66.0	49.8	30.0	66.3	38,1
6.	14/10/2022	SEE/AR/10/2022/0346	G-N6	R	Khajne Amere Porscodem	30.0	59.9	49.5	30.0	52.3	39.7
7.	15/10/2022	SEE/AR/10/2022/0385	G-N7	R	Warkhand	38.6	66.5	48.4	30.1	61.4	38.0
8.	19/10/2022	SEE/AR/10/2022/0454	G-N8	C	Rajvil Wada Torxem	37.8	70.5	57.7	30.0	70.7	49.4
9.	19/10/2022	SEE/AR/10/2022/0455	G-N9	C	Village Panchayet Tamboxem -Mope- Ugvern	39.0	66.3	55.8	30.0	62.0	45.9
10.	14/10/2022	SEE/AR/10/2022/0347	M-N1	R	Satarda	30.0	66.6	49.4	30.0	60.8	38.3
11.	18/10/2022	SEE/AR/10/2022/0426	M-N2	R	Dingna	33.0	62.1	48.9	30.0	64,0	39.1
12	18/10/2022	SEE/AR/10/2022/0427	M-N3	R	Netarde	30.0	69.9	49.5	30.0	58.1	39.5

I - Industrial Zone, C - Commercial Zone, R - Residential Zone

Noise Limits as per Schedule III of 'The Environment (Protection) Rules, 1986' are as follows:

0.00		Limits in dB(A) Leq		
Area Code	Category of Area	Day Time	Night Time	
(A)	Industrial Area (1)	75	70	
(B)	Commercial Area (C)	65	55	
(C)	Residential Area (R)	55	45	
(D)	Silence Zone (5)	50	40	

Day time is reckoned in between 6.00am to 10.00pm and night time is reckoned in between 10.00pm to 6.00am.

"dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.

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

> Leg: It is the energy mean of the noise level over a specified period

Note: Monitoring has been done as per GPC8 protocol for Ambient Level Noise Monitoring 2015.

: Test results related only to the sample tested.

: Test results relate only to the condition prevelling at the time of sampling.

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Variate Pale Reviewed by Aguadoep Saward Authorized Signatory

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Calibration Details of Equipment used for Sampling.

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/563	23/07/2022	22/07/2023

Noise Level Meter No.2 (A0114-1408)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/561	23/07/2022	22/07/2023



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		WATER SAMPLE			
SEE/10/2022/67		Issue Date		08/10/2022	
Mopa, Goa					
As per dated 03/10/2022	Enviror	nvironmental Condition of Lab		-	Humidity % 68
SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10		10
WTP-Treated					
Treated Water sample		Date of collection		03/10/2022	
SEEPL Representative		Sample Received On		03/10/2022	
03/10/2022		Analysis Completed On		08/10/2022	
Glass bottle		Sample Quantity		5000 ml	
	M/s. Megawide Construction C/o GMR Goa Internation Mopa, Goa As per dated 03/10/2022 SEEPL/LD/FMT- 54 WTP-Treated Treated Water sample SEEPL Representative 03/10/2022	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Mopa, Goa As per dated 03/10/2022 Enviror SEEPL/LD/FMT- 54 Samplin WTP-Treated Treated Water sample SEEPL Representative 03/10/2022	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited Mopa, Goa As per dated 03/10/2022 Environmental Condition of Lab SEEPL/LD/FMT-54 Sampling Procedure No. WTP-Treated Treated Water sample Date of collection SEEPL Representative Sample Received On 03/10/2022 Analysis Completed On	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited Mopa, Goa As per dated 03/10/2022 Environmental Condition of Lab SEEPL/LD/FMT-54 Sampling Procedure No. SEEP WTP-Treated Treated Water sample Date of collection SEEPL Representative Sample Received On 03/10/2022 Analysis Completed On	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited Mopa, Goa As per dated 03/10/2022 Environmental Condition of Lab SEEPL/LD/FMT-54 Sampling Procedure No. SEEPL/QSP- WTP-Treated Treated Water sample Date of collection 03/10/ SEEPL Representative Sample Received On 03/10/ 03/10/2022 Analysis Completed On 08/10/

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F 32.0	Sept John	Lact	1000
COST	mica	1 1-651	arriva.

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.95	-	6.5 - 8.5	IS 3025 (Part 11)
2	Turbidity	0.84	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable		Not Specified	APHA(23#Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23rdEdition) 2120 B
5.	Odour	Agreeable	#	Not Specified	APHA(23 st Edition) 2150 B
6.	Total Alkalinity	16.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	35.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as CI	17.51	mg/lit	250,00	IS 3025 (Part 32)
9.	Sulphate as SO _i -	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10	Sulfides	<2.00	mg/lit	Not Specified	APHA(23/eEdition) 4500 S ² F
11.	Total Hardness as CaCO ₃	18,00	mg/lit	200.00	IS 3025 (Part 21)
12	Ammonia	< 0.50	mg/lit	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) 1991

1. Anisha Parab

2. Shreya Harmalkar Analyzed by

Varsha Pole Reviewed By

deep Sawant Authorized Signatory

Report No.	SEE/10/2022/67	Issue Date	08/10/2022
Order / Reference	As per dated 03/10/2022	Sample Received On	03/10/2022
Analysis Started On	08/03/10/2022	Analysis Completed On	08/10/2022
Name of Client	M/s. Megawide Construction DN C/o GMR Goa International Air		

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(23°Edition) 4500 F.D.
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23rdEdition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23rdEdition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23/FEdition) 5540 - C
Aetal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)
23.	Calcium as Ca	5.61	mg/lit	Not Specified	APHA(23 st Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25	Iron as Fe	0.09	mg/lit	1.00	IS 3025 (Part 2)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2)
27.	Magnesium as Mg	<1.00	mg/lit	Not Specified	APHA(23rdEdition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 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	1S 3025 (Part 2)
31.	Sodium as Na	1.40	mg/lit	Not Specified	APHA(23 st Edition) 3120 B
32.	Potassium as K	0.50	mg/lit	Not Specified	APHA(23/Fedition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

Anisha Parab Arysid
 Shreya Harmalkar
 Analyzed by

chopdekay

Varsha Pole Reviewed By

Ananceep Sawant Authorized Signatory

Report No.	SEE/10/2022/67	Issue Date	08/10/2022
Order / Reference	As per dated 03/10/2022	Sample Received On	03/10/2022
Analysis Started On	03/10/2022	Analysis Completed On	08/10/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air	MCC port Limited	

Microbiological Parameters

Sr. No.	Parameter Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23*Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23*Edition) 9221-G

Note: Test results related only to the sample tested.

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Anisha Parab
 Anisha Parab
 Analyzed by

thopdeKar Varsha Pole

Reviewed By



Anandep Sawant Authorized Signatory

Equipment Calibration Details

_		93.50%		Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/168	T2022/04/020	18/04/2022	18/04/2023	
02.	Hot Air Oven	Ø/009	T2021/11/006	11/11/2021	11/11/2022	
03.	U V Spectrophotometer	Q/0166	(4)	Inhouse	Calibration	
04.	ICP- OES	Q/162		Inhouse	Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
06.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
07.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



B-206/307, Plot No. 61, Paler Estate, Ross Magos, Vimpro, Alts. Old Batter Hosel, Bardez, Possesse, France Goo 403, 101. Got State, India. €.: (0832) 2411322 / 2411323 * E-mail: startalgun@emillest.com

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	ANALYSIS REPOR	RT FOR WA	TER SAMPLE			
Report No.	SEE/10/2022/68	Is	sue Date		08/10/	2022
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa	on DMCC al Airport Lin	nited			
Address of Client	Mopa, Goa					
		ir=savices	. La Constitue of Lab	Tem	p o C	Humidity %
Order / Reference	As per dated 03/10/2022	Environm	ental Condition of Lab	2	8.1	68
Sampling Plan	SEEPL/LD/FMT-54	S	Sampling Procedure No.		SEEP	L/QSP-10
Sampling point	Borewell No. 2					
Sample details	Ground Water	D	ate of collection		03/10	2022
Sample Collected by	SEEPL Representative	S	ample Received On		03/10/	2022
Analysis Started On	03/10/2022	A	nalysis Completed On		08/10	2022
Sample Container	Glass bottle + PVC Can	S	ample Quantity		1000 ml + 4000ml	

Chamical Taction

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.72		6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.98	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable		Not Specified	APHA(23 rd Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5,	Odour	Agreeable	4	Not Specified	APHA(2319Edition) 2150 B
6.	Total Alkalinity	20.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	36.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as CI	14.51	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO _V	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23rdEdition) 4500 S2F
11.	Total Hardness as CaCO ₁	24.00	mg/lit	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0,50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39)

1. Anisha Parab RDOUG 2. Shreya Harmalkar

Analyzed by

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Varsha Pole Reviewed By Anaddeep Sawant **Authorized Signatory**

Report No.	SEE/10/2022/68	Issue Date	08/10/2022
Order / Reference	As per dated 03/10/2022	Sample Received On	03/10/2022
Analysis Started On	03/10/2022	Analysis Completed On	08/10/2022
Name of Client	M/s. Megawide Construction DN C/o GMR Goa International Air	MCC port Limited	

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	<0.20	mg/M.	0.20	IS 3025 (Part 26)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(23ºEdition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23rdEdition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23ªEdition) 5540 - C
letal	Analysis			/	
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)
23.	Calcium as Ca	6.41	mg/lit	Not Specified	APHA(23#Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.05	mg/lit	1.00	IS 3025 (Part 2)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2)
27.	Magnesium as Mg	1,94	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 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	IS 3025 (Part 2)
31.	Sodium as Na	1,52	mg/lit	Not Specified	APHA(23 ^{re} Edition) 3120 B
32.	Potassium as K	0.47	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part.2)

Anisha Parab Arpayah
 Shreya Harmalkar Analyzed by

Varsha Pole Reviewed By

Antifology Sawant Authorized Signatory

Report No.	SEE/10/2022/68	Issue Date	08/10/2022
Order / Reference	As per dated 03/10/2022	Sample Received On	03/10/2022
Analysis Started On	03/10/2022	Analysis Completed On	08/10/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air	MCC port Limited	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23#Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23=Edition) 9221-G

Note: Test results related only to the sample tested.

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Anisha Parab
 Anisha Parab
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Anaxoeep Sawant **Authorized Signatory**

Equipment Calibration Details

				Calibratio	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	T2022/04/020	18/04/2022	18/04/2023
02.	Hot Air Oven	O/009	T2021/11/006	11/11/2021 11/11/20	
03.	U V Spectrophotometer	Q/0166	#	Inhouse Calibration	
04.	ICP- OES	Q/162	100	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023
06.	Microbiological Incubator (44,5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023
07.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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Gos State, India: (f) 10652) 3411322 / 3411323 * S-mail: startabgos@cid@cid@cid.com

Lab accordated by MoEF & CC Valid up to 03.11.2023 * Certified by ISO 9001:2015 & ISO 45001 : 2018

SPAR DITTO

	ANALYSIS REPOR	RT FOR	WATER SAMPLE				
Report No.	SEE/10/2022/70	07/10/2022		2022			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As per dated 03/10/2022	Environmental Condition of Lab			0.0 C	Humidity % 68	
Sampling point	L.S.C						
Sample details	Drinking Water		Date of collection		03/10/2022		
Sample Collected by	SEEPL Representative		Sample Received On		03/10/2022		
Analysis Started On	03/10/2022		Analysis Completed On		07/10/20		
Sample Container	Glass bottle		Sample Quantity		1000 ml		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 st Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23"Edition) 9221-G

Note: Test results related only to the sample tested.

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Anaddedo Sawant Authorized Signatory

Equipment Calibration Details

		Equipment Id		Calibration Details		
Sr. No.	Equipment Name		Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	0/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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Lab according by MoEF & CC Value up to 05.11.2023 * Cartified by ISO 9001:2015 & ISO 45001: 2018

SPAR LUTTERS STOVENE

	ANALYSIS REPOR	RT FOR	R WATER SAMPLE				
Report No.	SEE/10/2022/71 Issue Date				07/10/2022		
Name of Client	M/s, Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa				-7/1-		
Order / Reference	As per dated 03/10/2022	Environmental Condition of Lab		Temp ° C 28.1		Humidity % 68	
Sampling point	P.T.B						
Sample details	Drinking Water		Date of collection	03/10/2022		2022	
Sample Collected by	SEEPL Representative		Sample Received On		03/10/2022		
Analysis Started On	03/10/2022		Analysis Completed On		07/10	2022	
Sample Container	Glass bottle		Sample Quantity		1000 ml		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNindex/100ml	Not Specified	APHA(23/Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNindex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Varsha Pole Reviewed By

Anandeep Sawant Authorized Signatory

Equipment Calibration Details

		Equipment Id		Calibration Details		
Sr. No.	Equipment Name		Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02,	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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SINK UPSETS SINK UPS

	ANALYSIS REPOR	RT FOR	WATER SAMPLE				
Report No.	SEE/10/2022/72	07/10/2022		2022			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As per dated 03/10/2022	Environmental Condition of Lab		Temp 28.1	_	Humidity % 68	
Sampling point	Megawide Labor Colony						
Sample details	Drinking Water		Date of collection	03/10/2022		2022	
Sample Collected by	SEEPL Representative		Sample Received On		03/10/2022		
Analysis Started On	03/10/2022		Analysis Completed On		07/10/2		
Sample Container	Glass bottle		Sample Quantity		1000 r	nl	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1,	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23//Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23"Edition) 9221-G

Note: Test results related only to the sample tested.

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Anisha Parab Analyzed by Varsha Pole Reviewed By Engineer PV

Anakdeep Sawant Authorized Signatory

Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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STOR UNKNOWN SHOULDE

	ANALYSIS REPOR	RT FOR WATER SAMPLE				
Report No.	SEE/10/2022/73	Issue Date	0	07/10/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Мора, Goa					
Order / Reference	As per dated 03/10/2022	Environmental Condition of Lab	Temp 6 28.1	-	Humidity % 68	
Sampling point	KMV					
Sample details	Drinking Water	Date of collection	03/10/2022		22	
Sample Collected by	SEEPL Representative	Sample Received On	0	03/10/2022		
Analysis Started On	03/10/2022	Analysis Completed On	0	07/10/20	22	
Sample Container	Glass bottle	Sample Quantity	1	1000 ml		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
t.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs. Absent		MPNIndex/100ml	Not Specified	APHA(23"Edition) 9221-G

Note: Test results related only to the sample tested.

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Anardisep Sawarit **Authorized Signatory**

Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Ω/004	T2022/08/003	13/08/2022	13/08/2023	
03	Larninar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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SHOULD BE SHATINE

	ANALYSIS REPOR	RT FOR WATER SAMPLE				
Report No.	SEE/10/2022/74	Issue Date	Issue Date		2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Мора, Goa			- 00	1 to exidity M	
Order / Reference	As per dated 03/10/2022	Environmental Condition of Lab		7emp ⁰ C 28.1	Humidity % 68	
Sampling point	VNC Colony					
Sample details	Drinking Water	Date of collection		03/10/2022		
Sample Collected by	SEEPL Representative	Sample Received On		03/10/2022		
Analysis Started On	03/10/2022	Analysis Completed O	1	07/10	/2022	
Sample Container	Glass bottle	Sample Quantity		1000	ml	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23ºEdition) 9221-B
2.	E.coli at 44.5°C for 24hrs. Absent 1		MPNIndex/100ml	Not Specified	APHA(23 ^{rg} Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

		Equipment Id		Calibration Details		
Sr. No.	Equipment Name		Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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		AMB	ENT	AIR QU	ALITY MONIT	ORING	REPOR	T		
Rep	ort Date	01/12/20	22							
-	ne of Client	M/s. Mega C/o GMR	M/s. Megawide Construction DMCC L/o GMR Goa international Airport Limited							
Add	ress of Client	Mopa, Goa	1							
Sam	pling Plan	SEEPL/LE	/FMT-	54	Sampling Proce	dure No.	SI	EEPL/QSP-10	0	
Sam	ple Collected I	By SEEPL Re	presen	tative						
Mor	nth of Sampling	g November	2022							
				AMBII	ENT AIR LOCATI	ON				
Loc	ation of ambie	nt air station	Mopa	a Bounda	ry (Goa State) (G	G-A1)				
/e	rage Ambient	Temperature (°C)	30.2	Avera	ge Humidity (%)	65	Latitude	N 15!45'5	0.000
Average Wind Speed (km/hr) 1.4			1.4	Avera	ge Wind direction	in (Deg)	212	Longitude	E 73º56'3	2.4"
Inst	ruments Used		FPS(APM-550), RDS(APM-460	0) &GPS (APM - 4	11)		
Sr.	Date of	Demont Ma	PARAMETERS							
No	Sampling	Report No.	Report No.		PM _{2.5}	502	NO	x CO	SPM	Pb
1	03/11/2022	SEE/AR/11/2022/	0090	59.30	15.76	6.03	10.0	9 0.07	75.89	< 0.10
2	07/11/2022	SEE/AR/11/2022/	0198	55.71	21.00	4.42	10.9	0.08	82.75	< 0.10
3	10/11/2022	SEE/AR/11/2022/	0275	61.89	19.09	5.03	8.4	2 0.05	81.81	< 0.10
4	14/11/2022	SEE/AR/11/2022/		34.60	10.21	<3.00	<6.4	0.06	48.78	< 0.10
5	17/11/2022	SEE/AR/11/2022/		78.23	14.51	4.27	<6.1	0.10	104.76	< 0.10
6	21/11/2022	SEE/AR/11/2022/	Add Strategic record	88.11	32.12	6.42	12.7	2 0.14	133.62	< 0.10
7	24/11/2022	SEE/AR/11/2022/	0651	51.09	11.68	6.20	10.7	6 0.07	63.86	< 0.10
8	28/11/2022	SEE/AR/11/2022/	National Property of	44.11	8.28	<3.00	<6.0	0.03	53.13	< 0.10
	NAA	QS Limits*		100	60	80	80	4		1
-		Units		μg/ m ²	µg/m²	pg/m ²	118/1	m ³ mg/m ³	ug/m³	μg/m
		Method		IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 51 (Part		IS 5182 (Part IV)	IS 5182 (Part 22

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2)Pandurang Gawas (Aud) Analyzed by

Varsha Pole Reviewed by Apendeep Sawant Authorized Signatory

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ERRANCH OFF. 110. Dumpe Towns, EDC Plate, Parage 403 001. Gras State Vertical (7), (2832) 2432944 (7)427164 Page 99 of 377

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Calibration details of Equipment used for Sampling & Analysis

Respirable Dust Samplor's with Gaseous Sampling

Sr.No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO 2881-DTH-2020)		23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 991-DTI-2020)

Sr.No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	-	23/09/2022	22/09/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



8-209/207, Plochie 81, Popel Estimi, Past Magos, Veneri, Alta, Ckil Sister Road, Bacteri, Pravecin, Pangi-Goa-403 101. Goa Siste, India: (f): (9832) 2811322 / 2411323 * E-mail: startotigos@eodiferial.com

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SHAR DEFEN

		AMB	IENT A	IR QUA	LITY MONITO	ORING I	REPO	RT			
Rep	ort Date	01/12/2									
M/s, Megawide				Construct ternation:	ion DMCC al Airport Limit	ed					
Add	ress of Client	Mopa, Go						Lans			_
Sam	pling Plan	SEEPL/L	D/FMT	- 54	Sampling Proce	edure No.		SEL	PL/QSP-	10	
Sam	ple Collected B	By SEEPL R	epreser	itative							_
Mon	th of Sampling	Novemb	er 2022								_
					NT AIR LOCATI						
Loca	ition of ambier	nt air station	Shem		n Boundary(Go					11 1 20 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	45
-	rage Ambient	Femperature (°C)	31.8		e Humidity (%)		64	-	430474	N 15642'06	April programmer
Ave	rage Wind Spe	ed (km/hr)	1.5	Average	e Wind directio	n (Deg)	232	Accessed	gitude	E 73º49'21	.5
Inst	ruments Used		FPS(/	APM-550)	RDS(APM-460						
Sr. Date of Report No.						RAMET	_		T 2544 T	-	
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	SO ₂	N/	Οx	CO	SPM	Pb
1	03/11/2022	SEE/AR/11/2022,	/0091	47.41	11.85	4.16	8.	19	0.06	59.80	< 0.10
2	07/11/2022	SEE/AR/11/2022,	/0199	52.85	12.97	5.76	9.	45	0.07	67.23	< 0.10
3	10/11/2022	SEE/AR/11/2022,	All the second	71.72	14.93	5.99	7.2	78	0.08	87.70	< 0.10
4	14/11/2022	SEE/AR/11/2022	In a fact that the same of the	30.16	8.29	<3.00	<6	00	0.05	40.11	< 0.10
5	17/11/2022	SEE/AR/11/2022		40.53	10.77	5.48	<6	.00	0.09	61.19	< 0.1
6	21/11/2022	SEE/AR/11/2022		70.81	23.25	6.23	10	40	0.08	102.66	< 0.1
7	24/11/2022	SEE/AR/11/2022		60.50	12.72	8.32	8.	10	0.05	73.74	< 0.1
8	28/11/2022	SEE/AR/11/2022	The second	49.22	12.43	<3.00	<6	.00	0.03	62.56	< 0.1
	The second secon	QS Limits*		100	60	80	8	0	4	-	1
	1277	Units		μg/ m ³	µg/m³	µg/m³	μg	/m ¹	mg/m1	μg/m ³	ug/n
J		Method		(S 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	10000	182 106)	IS 5182 (Part 10)	IS 5182 (Part (V)	IS 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2)Pandurang Gawas

Analyzed by

Varsha Pole Reviewed by Apendeep Sawant Authorized Signatory

Calibration details of Equipment used for Sampling & Analysis

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (5R NO.2871 DTG-2020)	-	23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 992-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI		23/09/2022	22/09/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B-356/207, Plot No. 61, Patel Estate, Resi Magos, Vissen, Alto, Oil Boten Road, Bardez, Porcess, Paseg-Goo-403 161. Goa Shin, India: 10 .: (6832) 3411322 / 2411323 * E-real | startetogoa@ediffmat.com

Lab accredited by MoEF & CC Weld up to 03.11.2023 * Certified by ISO 9001:2015 & ISO 45001 : 2018.

SOUR USE

		AMBI	ENTA	IR QUA	LITY MONITO	DRING R	EPOR	Γ.		
Repo	ort Date	01/12/2								
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited										
Add	ress of Client	Mopa, G	oa							
Sam	pling Plan	SEEPL/I	D/FM	r- 54	Sampling Proc	edure No		SEEPL/QSP	-10	
Sam	ple Collected F	By SEEPL R	eprese	ntative						
Mon	th of Sampling	Novemb	er 202							
				and the second section of the second	NT AIR LOCATION	ON				
oca	ation of ambier	nt air station	Nagz	for the complete and the first of the first	ate) (G-A3)				N 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1 F 1	9 19.00
Ave	rage Ambient	Temperature (°C)	30,9	The second second second	e Humidity (%)		4.0	Latitude	N 15"45'3	
Average Wind Speed (km/hr) 1.6				e Wind direction		-	Longitude	E 73°53'1	1.22	
Inst	ruments Used		FPS(APM-550)	, RDS(APM-460					
Sr.	Date of Passet No.					AMETE		1000	-	
No	Sampling	Report No.		PM ₁₈	PM _{2,5}	SO ₂	NO ₃	CO	SPM	Pb
1	03/11/2022	SEE/AR/11/2022	/0092	87.10	26.67	7.79	12.0	2 0.14	137.35	< 0.10
2	07/11/2022	SEE/AR/11/2022	/0200	75.62	32.89	6.37	7.92	0.11	119.79	<0.10
3	10/11/2022	SEE/AR/11/2022		84.31	38.70	7.09	9.25	0.10	138.39	< 0.10
4	14/11/2022	SEE/AR/11/2022		41.68	12.23	5.28	<6.0	0 0.07	55.20	< 0.10
5	17/11/2022	SEE/AR/11/2022		85.14	39.65	4.74	7.52	0.13	131.28	<0.10
6	21/11/2022	SEE/AR/11/2022		81.63	25.66	4.50	9.05	0.06	123.46	<0.10
7	24/11/2022	SEE/AR/11/2022	-	88.03	38,08	5.68	11.2	0 0.05	139.71	< 0.10
8	28/11/2022	SEE/AR/11/2022		69.24	24.05	10.03	8.91	80.0	100.61	< 0.10
-		QS Limits*	- A SEC. 1	100	60	80	80	4	2	1
-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Units		μg/ m ³	pg/m³	μg/m³	lig/n	n ³ mg/m ³	µg/m³	µg/m³
		Method		IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	COLUMN TO STATE OF THE PARTY OF	CONTRACTOR OF THE PROPERTY OF THE PARTY OF T		IS 5182 (Part 22

"NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Nalk 2)Pandurang Gawas Analyzed by

Varsha Pole Reviewed by at Loyon

Anartheep Saward Authorized Signatory

HEAD OFF: & LAB: Prot No. A-95, Possil No. 16, Knot Nager Rood, MYD,C. Wight Inquintus Arra. Pront - 400-604. Attenuation-State, India

√: (81-22) 2543 1021 / 2563 3022 / 2563 3023 / 2563 3024 € F-mid ; pro@landestension com / processis S@grood com

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BRANCH OFF. 310 Demps Towers, EDG Patts, Panag-403 B01, Gas State, Lintal © (0802) 2437046 / 2437164
E-mail: saddocern/m@pdd@mail.com = Wattalia: view patentermy.com = CBI - DAS288A-1199BPTC-11

Page 103 of 377

Calibration details of Equipment used for Sampling & Analysis

Respirable Oust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1719-DTI-2012)	LES-CCL/FF/MF/SC/1715	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
Sr No.	UV	In House Calibration

Fine Particulate Sampler (SR NO. 1114 L 21)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2021-22/FLOW/3683	07/01/2022	07/01/2023

CO METER

Sr Na.	Instrument Type	Calibrated on	Calibration due date	
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022	

5r No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



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WAY THE PER SMELIN

		AMBI	ENT A	IR QUA	LITY MONIT	ORING F	REPOR	Т			
Report Date 01/12/2											
Name of Client		M/s. Mej C/o GMF	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited								
Address of Client Mopa, Goa			08	Learni Joen 46							
Sampling Plan		SEEPL/I	SEEPL/LD/FMT		Sampling Procedure No.			SEEPL/QSP-10			
Stilliple Suitered -3			EPL Representative								
Month of Sampling November 2022											
				The American Property of the	NT AIR LOCATI		_				
Jocation of ambient air station Purve				Casarvarnem (Goa State)(G-A4) Average Humidity (%) 64 Latitude N 15*41'41.9"						1.0"	
Average Ambient Temperature (°C			30.8	Average Humidity (%)			64	Latitude	E 73°50'16.6"		
			1.7	Average Wind direction (Deg) 2 APM-550), RDS(APM-460) &GPS (AP			243	Longitude	office and a second second		
Inst	ruments Used		FPS[/	APM-550), RDS(APM-46					-	
Sr.	Date of	Report No.	Panort No		PARAMETERS DM. SO. NO. CO SPM Pb						
No	Sampling	Sampling Report No.		PM _{vii}	PM _{2,5}	SO2	NO			A.70	
1	03/11/2022	SEE/AR/11/2022/0093		51.31	15.76	4.37	7.03		68.28	<0.10	
2	07/11/2022	SEE/AR/11/2022/0201		54.78	28.19	4.31	8.0	0.08	B5.02	<0.10	
3	10/11/2022	SEE/AR/11/2022/0278		64.72	19.55	3.90	11.3	6 0.07	91.00	< 0.10	
4	14/11/2022	SEE/AR/11/2022/0377		36.18	12.30	<3.00	<6.0	0.05	41.38	< 0.10	
5	17/11/2022	SEE/AR/11/2022/0519		69.98	16.78	<3.00	6.4	7 0.05	91.89	<0.10	
6	21/11/2022	SEE/AR/11/2022/0610		75.62	13.21	9.53	9.2	1 0.10	96.75	<0.10	
7	24/11/2022	SEE/AR/11/2022/0654		74.44	20.91	5.82	8.6	7 0.07	102.13	<0.10	
8	28/11/2022	SEE/AR/11/2022		42.47	10.30	3.48	<6.0	0.05	56.04	< 0.10	
NAAQS Limits*				100	60	80	80 4			1	
Units				μg/ m ³	μg/m³	µg/m³	µg/	m³ mg/m³	µg/m³	μg/m	
Malhad				IS 5182	Lab SOP NO.: SEE/I DISOP-	IS 5182	18.5	182 IS 5182		IS 518	

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

Method

: Test results relate only to the condition prevailing at the time of sampling

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(Part 23)

: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

AA-04

: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2)Pandurang Gawas

Analyzed by

Varsha Pole Reviewed by

(Part 02)

(Part 06)

halldeep Sawant Authorized Signatory

(Part IV

(Part 10)

(Part 22)

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2893-DTJ-2020)	-	23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration	
01	UV	In House Calibration	

Fine Particulate Sampler (SR NO. 983-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	-	23/09/2022	22/09/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

5r No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B-300/207, Plot No. 61, Punil Estate, Role Magoo, Venen, Alto, Old Belleh Roles, Gardina, Porvision, Pamiji-Goa-603-101. Goar State. Auto. (C. - (01)2) 2/11/322 / 2411323 * E-mail: statesbycar@indffmail.com

Lab accredited by MoEF & CC Valid up to 03 11 2023 * Certified by ISO 9001:2015 & ISO 45001 2018

Steps surriver SBW NRI

		AMBI	ENT A	IR QUA	LITY MONIT	ORING F	REPOR	I		
Reno	ort Date	01/12/2								
	e of Client	M/s. Meg C/o GMR	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited							
Add	ress of Client	f Client Mopa, Goa					_			
Sam	pling Plan	SEEPL/L	D/FMT	- 54	Sampling Proc	edure No.	S	EEPL/QSP-	10	_
Sam	ple Collected E	By SEEPLR	epresei	ntative						_
Mon	th of Sampling	Novemb	er 2027							
					NT AIR LOCAT					
1 pca	ation of ambier	nt air station	Khaji	A self-resident and the self-resident	Porscodem (Go		and the second second	4-11-1	Tal a musoway	1.00
Ave	rage Ambient'	Temperature (°C)			e Humidity (%		63	Latitude	N 15°40'38	M-510
Average Wind Speed (km/hr) 1.3					e Wind direction		280	Longitude	E 73º46'21	1,4
Inst	ruments Used		FPS(APM-550	, RDS(APM-46					_
Sr.	Date of	Report No.					AMETE		-	m
No	Sampling	Report No.		PM ₁₄	PM _{2.5}	502	NO		SPM	Pb
1	03/11/2022	SEE/AR/11/2022/	0094	33.48	10.60	<3.00	<6.0	0 0.05		< 0.10
2	07/11/2022	SEE/AR/11/2022/	0202	39.92	19.13	5.17	<6.0	0 0.06	60.34	<0.10
3	10/11/2022	SEE/AR/11/2022/	0279	44.82	20.96	<3.00	<6.0	0 0.05	67.55	<0.10
4	14/11/2022	SEE/AR/11/2022	_	25.61	8.40	<3.00	<6.0	0.03	34.05	<0.10
5	17/11/2022	SEE/AR/11/2022	-	44.07	8.98	4.23	7.9	4 0.08	66.42	< 0.10
6	21/11/2022	SEE/AR/11/2022	-	42.99	7.70	7.76	<6.0	0.06	53.41	< 0.10
7	24/11/2022	SEE/AR/11/2022	0.100	40.39	12.83	6.09	<6.0	0.06	59.18	< 0.10
8	28/11/2022	SEE/AR/11/2022		37.64	B.13	≪3.00	<6.0	0.02	46.49	<0.10
		QS Limits*		100	60	80	80	4	-	1
-	3-(1)	Units		μg/ m³	μg/m ³	µg/m³	pg/	m ³ mg/n	n) μμ/m)	µg/m
		Method		(S 5182 (Part 23)	Lab SOP NO SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 51 (Part			IS 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2)Pandurang Gawas (Austria) Analyzed by

Varsha Pole Reviewed by Apartieep Sawant Authorized Signatory

HEAD DFF, & LAB : Plot No. A-95, Road No. 16, Klean Higger Hoad, M LD-E: Wager Industrial Area, Plante - 400 BM, Midwarento Black, Prilis (p.) - (pri-22) 2383 3321 / 2583 3322 - 2583 3323 / 2583 3324 + E-mail ; pre@taocksenners.com / posteks/b@gmail.com

Countain By Minstry of Environment, Ferent & Cheese Change, Good Of India, S. (7, 957) (E)

BRANCH OFF. 5310, Deeple Towers, EDC Parts, Partie 403 001, Gos Stelle, India 601 (0832) 2437040 / 2437344 Page 107 of 377 E-mail: addckarenwooglend front.com • Witholia: www.sadesammires.com • Cits - List20Mail1980PTC-110378

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2892-DTJ-2020)	+	23/09/2022	22/09/2023

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 2024-DTD-2016)	LES-CCL/FF/MF/5C/1722	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No. Equipment Name		Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 1119 A 22)

5r No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2021-22/FLOW/3682	07/01/2022	07/01/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B-200/207, Pot No. 61, Panel Estate. Rosa Magos, Verent, Ato, Old Beter Rosal, Bandra, Poisserer, Panels Gua-400, 101 Con State, India, C (0002) 2411322 / 2411323 * E-mail: startabgua@coddfmill.com

List accredited by MoEF & CC Visit up to 83.11.2023 * Certified by ISO 9001:2015 & ISO 45001 : 2018

HEARING SAME DES

		AMBI	ENT A	IR QUAL	ITY MONITO	RING	REPO	RI			_
Rene	ort Date	01/12/2	022								
_	Warne of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited										
Add	ress of Client	Mopa, Go	Sal					Louis	m. 10.00	W.	
Sam	pling Plan	SEEPL/L	D/FM1	- 54	Sampling Pr	rocedure	No.	SEE	PL/QSP-	10	
Sam	ple Collected B	ly SEEPL R	eprese	ntative					_		
Mon	th of Sampling	Novemb	er 202								
				1 4 1 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	T AIR LOCATIO						
pc	ation of ambier	nt air station	-		rxem (Goa Stat	e)(G-A6		Time	74 In	N 15*48'40	O ⁿ
Ave	rage Ambient "	l'emperature (°C)	31.2		Humidity (%)	- COL N	67	Latit	11111	E 73°52'50	
Ave	rage Wind Spe	ed (km/hr)	1.6		Wind direction		231		itude	1 /3-36 30	16
Inst	ruments Used		FPS(APM-550)	RDS(APM-460				_		_
Sr.	Sr. Date of Report No.		4 (2		-78	-	-	TERS	co	SPM	Pb
No	Sampling	report its.		PM ₁₀	PM _{2.5}	501		NOx	200	200,100	
1	03/11/2022	SEE/AR/11/2022	/0095	50.79	22.74	4.20	1	5.15	0.06	74.62	<0.10
2	07/11/2022	SEE/AR/11/2022,	/0203	41.87	16.47	3,38	1	7.13	0.05	58.82	<0.10
3	10/11/2022	SEE/AR/11/2022	/0280	57.22	11.35	5.22	1	0.26	0.07	69.44	<0.10
4	14/11/2022	SEE/AR/11/2022		30.19	6.11	<3.00	-	6.00	0.03	36.80	<0.10
5	17/11/2022	SEE/AR/11/2022		75.23	15.80	<3.00		6.53	0.11	104.90	< 0.1
6	21/11/2022	SEE/AR/11/2022	-	70.64	13.43	7,67		8.19	0:06	84.63	<0.10
7	24/11/2022	SEE/AR/11/2022		80.91	16.92	4.85		7.74	0.09	101.08	<0.10
8	28/11/2022	SEE/AR/11/2022	-	55.28	11.67	3.67		6.00	0.05	67.23	< 0.1
		QS Limits*		100	60	80		80	4	-	1
-		Units		µg/m³	µg/m³	µg/m	1	ig/m³	mg/m ³	μg/m ³	µg/n
		Method		IS 5182 (Part 23)	Lab SOP NO: SEE/LD/SOP- AA-04	IS 5182 (Part 02		S 5182 Part 06)	IS 5182 (Part 10)	(S 5182 (Part (V)	IS 516 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 2)Pandurang Gawas / Analyzed by

Varsha Pole Reviewed by

Anardeep Sawant Authorized Signatory

HEAD OFF, & LAB : Plot No. A-Rt. Rolet No. 16, Know Hager Breat, M.I.D.C. Wagte Indistruit Area, Thomas 400 HO4. Ministration States Institute. P. (51-22) 2583-3321 / 2583-3322 / 2583-3323 / 2590-3324 € most _pro@autonomeroro.com / poodeleast/grynull-com-

Gazeted By Minsay of Environment, Forest & Climate Overgo, East Of Initia, S. O. 857 (6)

BRANCH OFF. 310, Denipo Towers, EDC Parts, Partigi-403 001, Goa Blate, India 21 (0832) 2437048 / 3437164 Page 109 of 377

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2891-DTJ-2020)		23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 298-DTJ-2014)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	EI/FF/3539	18/02/2022	17/02/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

5r No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B-305/307, Plot No. 01, Paint Estate, Roin Magos, Verein, Also, Olir Betini Rossi, Burdett, Portnere, Pumili-Gen-803, 101 Cox State: Andre (C) (1832) 241/322 / 241/323 * E-most: startatigoo@contilleuit.com

Latt accredited by MoEF & CC Valid up to 63.11.2023 # Certified by ISO 9001:2015 & ISO 45001: 2018

SPANIORS.

		AMBI	ENT A	IR QUAL	ITY MONITO	DRING	REPO	RT			
Repo	ort Date	01/12/2	022								
Name of Client M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited											
Add	ress of Client	Mopa, Go)ā				OMMON TO S	Lone	m. 1055	10	_
Sam	pling Plan	SEEPL/L	D/FMT	- 54	Sampling Pr	rocedure	No.	SEE	PL/QSP-	10	
and the later of	ple Collected B	y SEEPL R	eprese	ntative							_
	th of Sampling	124	er 202								
				and the second second second	IT AIR LOCATION						
oci	ition of ambier	nt air station	Satar	All the Market States and Add States	ashtra State)(N	4-A1]		2	do T	N15º43'01	9*
Ave	rage Ambient	l'emperature (°C)	31,0	The second secon	Humidity (%)		65	Latit		E 73º46'00	-
Ave	rage Wind Spe	ed (km/hr)	1.2		Wind direction		223	Actions	Breeze	E 73"40 UV	1-6-
Inst	ruments Used		FPS(APM-550)	, RDS(APM-460	0) &GPS	(APM	- 411)	V		
Sr.	Date of	Report No.	December 1				RAME			coss	РЬ
No	Sampling	Report No.		PM ₁₈	PM _{2.5}	SO ₂	-	IO _X	CO	SPM	1000
1	03/11/2022	SEE/AR/11/2022	/0096	36,79	17.84	3.19	<8	5.00	0.05	55.19	< 0.10
2	07/11/2022	SEE/AR/11/2022	/0204	60.01	12.60	3.03	9	.76	0.07	75.93	<0.10
3	10/11/2022	SEE/AR/11/2022		69.52	24.52	<3.00	7	16	0.06	96.51	< 0.10
4	14/11/2022	SEE/AR/11/2022		24.87	7.21	<3.00	4	6.00	0.03	32.46	< 0.10
5	17/11/2022	SEE/AR/11/2022		57.16	26.57	3.44	7	.52	0.09	88.94	< 0.10
6	21/11/2022	SEE/AR/11/2022		51.09	18.46	7.38		6 00	0.06	73.31	< 0.10
7	24/11/2022	SEE/AR/11/2022		52.78	26.55	6.82	1	3.27	0.08	81.70	<0.10
8	28/11/2022	SEE/AR/11/2022		48.44	14.80	4.93		.93	0.06	63.80	< 0.10
0		QS Limits*		100	60	80	412	80	4	- 3	1
-	1476	Units		µg/ m³	µg/m³	µg/m³	p	g/m ^y	mg/m³	µg/m³	µg/m
		Method		IS 5182(Part 23)	Lab SOP NO: SEE/LD/SOP- AA-04	IS 5182 (Part 02		5182 art 06)	IS 5182 (Part 10)	IS 5182 (Part IV)	IS 518 (Part 2)

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1) Aditya Naik 60 2)Pandurang Gawas Analyzed by

Varsha Pole Reviewed by

porteep Sawant Authorized Signatory

HEAD OFF, & LAB : Pin No. A-RS. Road No. 16, Knor Nager Road, M.LD.C. Wagle Industrial Area, Those - 400 604, Millionarino Store, Value. P. (9) 221 2502 232 \ (2503 3322 + 2503 3323 + 2503 3324 + € + os - pro@pathtureness com / pathtat/9@prot/com

Casened By Mesons of Environment, Forest & Climate Change, Gost Of India, S. O. 857 (E)

BRANCH OFF. 310, Deveso Towers, EDC Pano, Panay-405 001, God State, India (C. (0832) 2437048 / 2437364 Page 111 of 377

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1461-DTD-2009)	LES-CCL/FF/MF/SC/1715	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 980-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	*	23/09/2022	22/09/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



Gos Steer, Veda (C.) (8652) (8411322 / S411333 * E-mail: statistiggolijjosdiffmni pom

List exceeded by MoEF & CC Valid up to 03 11 2023 * Certified by ISO 9001 2015 & ISO 45001 2016

SE LINE SINKLY

AMBIE	NT A	IR QUAL	ITY MONIT	ORING	REPO	RT			
Report Date 01/12/2022									
M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited									
Mopa, Goa						_			
Address of Client Mopa, Goa Sampling Plan SEEPL/LD/FMT- 54 Sampling Procedure No. SEEPL/QSP-10									
Sample Collected By SEEPL Representative					_				
Novembe	r 2022	2							_
**		AMBIEN	T AIR LOCAT	ION					
ation	Dingr	na(Mahara	shtra State)(M-A2)					
	30.6	Average Humidity (%) 6		67	-				
			Whelage wing an eccion (net) 200 months				E 73/49'2	0.5"	
	FPS(APM-550)	RDS(APM-46						
Depart No.					and the same	-		I see I	-
report No.		PM ₁₀	PM _{2.5}		_	-		-	Pb
R/11/2022/	0097	33.47	6.36	<3.00	_				<0.10
R/11/2022/	0205	45.08	13.97	4.01	7	33	0.05		<0.10
R/11/2022/	0282	35.25	9,61	4.67	7	52	0.07	47.13	< 0.10
		26.16	8.29	<3.00	-ct	00.2	0.02	31.20	< 0.10
		39.88	12.48	4.28	7	.33	0.06	54.54	< 0.10
and the same of th	Account to A Party	56.90	20.79	3.67	10	0.18	0.07	78.51	< 0.16
		60.17	16.13	5.19	1	1.33	0.05	77.02	< 0.1
AND RESIDENCE OF THE PARTY OF T		40.30	18.05	4.90	<	5.00	0.06	58.90	<0.1
	01/12/20 M/s. Meg C/o GMR Mopa, Go SEEPL/Li SEEPL Re Novembe ation ature (°C) /hr) Report No. R/11/2022/	01/12/2022 M/s. Megawide C/o GMR Goa in Mopa, Goa SEEPL/LD/FMT SEEPL Represer November 2022 ation Dings ature (°C) 30.6 /hr) 1.5 FPS(01/12/2022 M/s. Megawide Construction C/o GMR Goa internations Mopa, Goa SEEPL/LD/FMT- 54 SEEPL Representative November 2022 AMBIEN ation Dingna (Mahara ature (°C) 30.6 Average /hr) 1.5 Average FPS(APM-550) Report No. PM: R/11/2022/0097 33.47 R/11/2022/0205 45.08 R/11/2022/0282 35.25 R/11/2022/0381 26.16 R/11/2022/0523 39.88 R/11/2022/0614 56.90 R/11/2022/0614 56.90 R/11/2022/0658 60.17	01/12/2022 M/s. Megawide Construction DMCC C/o GMR Goa international Airport Lim Mopa, Goa SEEPL/LD/FMT- 54 Sampling SEEPL Representative November 2022 AMBIENT AIR LOCAT ation	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited Mopa, Goa SEEPL/LD/FMT- 54 Sampling Procedure SEEPL Representative November 2022	M/s. Megawide Construction DMCC	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited Mopa, Goa SEEPL/LD/FMT- 54 Sampling Procedure No. SEE AMBIENT AIR LOCATION ation 67 Latit Ambient AIR LOCATION ation 67 Latit (Maharashtra State)(M-A2) ation 67 Latit (Phr) 1.5 Average Humidity (%) 67 Latit (Phr) PM-411) PARAMETERS PMio PM25 SO2 NOx R/11/2022/0097 33.47 6.36 <3.00	Mys. Megawide Construction DMCC	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited

*NATIONAL AMBIENT AIR STANDARDS [2009]

Note: Test results related only to the sample tested.

NAAQS Limits*

Units

Method

: Test results relate only to the condition prevailing at the time of sampling

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100

µg/ m1

IS 5182

(Part 23)

: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

60

ug/m¹

Lab SOP NO .:

SEE/LD/SOP-

AA-04

: Test methods of analyzed parameters are back side of analysis report.

1)Aditya Naik 1899 2)Pandurang Gawas (Analyzed by

Reviewed by

deep Sawant Authorized Signatory

pg/m²

IS 5182

(Part 22)

HEAD DFF, & LAB: Plot No. A-95, Posel No. 16, Kinen Neger Rosel, M.I.D.C., Vergle, Roberton Area, There: 400 GHI, Manacontos Stoin, India: (E): (91-22) 2823 3321 / 2533 3322 / 2563 3323 / 2560 3334 € E-mil : (no.()) sudmanning some policy and some

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Page 113 of 377 E-euil ; sadekinenveoffrodiffresh.com * Winnale | www.natekinenent.com * CDN - LI45209WH1988PTC-19

80

µg/m³

IS 5182

(Part 06)

mg/mil

IS 5182

(Part 10)

pg/m3

13 5182

(Part IV)

80

ug/m²

18 5182

(Part 02)

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 138 L 21)	ECL/SEEPL/202122/FLOW/3668	07/01/2022	07/01/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 01-DTK-2011)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 LC	EI/FF/3543	18/02/2022	17/02/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



Gov Ziahr, Mila € (0832) 2411322 / 2411325 * E-moli -sterlidgon@redifferol.com

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AIVIBIENT AIR QUA	CETT WONTONING HELD	200
01/12/2022		
M/s. Megawide Construc C/o GMR Goa internatio	ction DMCC nal Airport Limited	
Mopa, Goa		
SEEPL/LD/FMT-54	Sampling Procedure No.	SEEPL/QSP-10
SEEPL Representative		
November 2022		
	01/12/2022 M/s. Megawide Construction C/o GMR Goa internation Mopa, Goa SEEPL/LD/FMT- 54 SEEPL Representative	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited Mopa, Goa SEEPL/LD/FMT- 54 Sampling Procedure No. SEEPL Representative

		THE PERSON NAMED IN COLUMN TO SERVICE OF THE PERSON NAMED IN COLUMN TO SERVICE			
Location of ambient air station	Netar	de(Maharashtra State)(M-A3)			
Average Ambient Temperature (°C)	30.9	Average Humidity (%)	63	Latitude	N 15º46'11.7"
Average Wind Speed (km/hr)	1.2	Average Wind direction (Deg)	215	Longitude	E 73°50'48.0"
Instruments Used	FPS(APM-550), RDS(APM-460) &GPS (APM - 411)				

Sr. Date of			PARAMETERS						
No	Sampling	Report No.	PM ₁₀	PM25	SO ₂	NOx	CO	SPM	Pb
1	03/11/2022	SEE/AR/11/2022/0098	25.18	5.20	<3.00	<6.00	0.03	30.90	< 0.10
2	07/11/2022	SEE/AR/11/2022/0206	49.78	27.11	5.46	7.39	0.06	78.31	< 0.10
3	10/11/2022	SEE/AR/11/2022/0283	58.94	25.45	5.11	7.85	0.08	84.91	< 0.10
4	14/11/2022	SEE/AR/11/2022/0382	31.08	6.40	<3.00	<6.00	0.02	38.26	<0.10
5	17/11/2022	SEE/AR/11/2022/0524	51.09	10.81	4.49	6.06	0.09	53.80	< 0.10
6	21/11/2022	SEE/AR/11/2022/0615	66.95	12.48	8.15	6.38	0.06	79.77	< 0.10
7	24/11/2022	SEE/AR/11/2022/0659	71.66	29.61	<3.00	6.52	0.05	102.18	<0.10
8	28/11/2022	SEE/AR/11/2022/0693	49.09	11.23	<3.00	<6.00	0.03	61.13	< 0.10
	NAA	QS Limits*	100	60	80	80	4		1
Т		Units	μg/ m ¹	ng/m³	µg/m³	µg/m³	mg/m ¹	ug/m³	µg/m³
		Method	IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	IS 5182 (Part 10)	IS 5182 (Part IV)	(Part 22)

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

: Test methods of analyzed parameters are back side of analysis report.

1) Aditya Naik 2)Pandurang Gawas (Lucoh

Analyzed by

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Varsha Pole Reviewed by Anthonized Signatory

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1718	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 977-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI		23/09/2022	22/09/2023

CO METER

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	20/11/2021	19/11/2022

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023

14



Gos State: India (D : 10892) 3411322 | 2411323 * E-mail: startebgood/rest/from

SHAR HOPOR SHOOLINE.

Latt occredited by MoEF & CC Visit up to 03.11.2023 * Certified by ISO 9001-2015 & ISO 45001 : 2018.

	NOISE LEVE	L MONITORING R	EPORT	
Report No.	SEE/ARV11/2022/0383-0384, 0449, 0570, 0638, 0637, 0450	0572-0573, 0571, , 0630-0631	Date of Issue	29/11/2022
Name of Client	M/s. Megawide Construction I Clo GMR Goa International A	OMCC		
Address of Client	Mopa, Goa			
Sample Collected By	SEEPL Representative			The second second
Sampling Plan	SEEPLILD/FMT-54	Sampling Pr	ocedure No	SEEPL/QSP-10

Chemical Testing - Atmospheric Pollution

Sr.	Date of		Statio	Zo	Sampling Location		ay Time se in dB(A)		light Time ise in d8(
No	Monitoring	Report No.	n ID	ne	Sampling Cocaron	Lmin	Lmax	Leq	Lmin	Letax	Leg
1.	14/11/2022	SEE/AR/11/2022/0383	G-N1	T	Mopa Boundary	30,0	77,4	59.0	30.0	67.0	47.7
2	14/11/2022	SEE/AR/11/2022/0384	G-NZ	1	Shemecheadvan Boundary	30.0	76.4	61.2	35.8	69.8	56.4
3.	20/11/2022	SEE/AR/11/2022/0572	G-N3	C	Nagzar	38.3	73.5	54.7	30.0	59.9	47.1
4.	20/11/2022	SEE/AR/11/2022/0573	G-N4	R	Purva Casarvarnem	30.0	65.9	48.9	30.0	58.3	39.5
5	19/11/2022	SEE/AR/11/2022/0571	G-N5	R	Chandel	37.6	66.6	49.2	30.0	55.0	38.9
6.	16/11/2022	SEE/AR/11/2022/0449	G-N6	R	Khajne Amere Porscodem	36.5	62.5	47.9	30.1	52.9	37.9
7.	19/11/2022	SEE/AR/11/2022/0570	G-N7	R	Warkhand	31.2	66.6	49.7	30.0	55.1	38.5
8.	23/11/2022	SEE/AR/11/2022/0638	G-N8	C	Rajvil Wada Torxem	30.1	77.0	55.7	31,4	64.3	50.9
9.	23/11/2022	SEE/AR/11/2022/0637	G-N9	C	Village Panchayet Tamboxem -Mops- Ugvern	30.0	75.0	54.4	30.5	61.8	46.9
10.	16/11/2022	SEE/AR/11/2022/0450	M-N1	R	Satarda	30.6	63.9	47.5	30.0	61.4	39.9
11.	22/11/2022	SEE/AR/11/2022/0630	M-N2	R	Dingna	30.9	67.3	48.4	30.0	58.0	38.4
12.	22/11/2022	SEE/AR/11/2022/0631	M-N3	R	Netarde	30.2	62.8	48.7	30.0	60.2	39.1

1 - Industrial Zone, C - Commercial Zone, R - Residential Zone

Noise Limits as per Schedule III of 'The Environment (Protection) Rules, 1986' are as follows:

		Limits in o	fB(A) Leq	
Area Code	Category of Area	Day Time	Night Time	
(A)	Industrial Area (1)	75	70	
(B)	Commercial Area (C)	65	55	
(C)	Residential Area (R)	55	45	
(D)	Silence Zone (S)	50	40	

Day time is reckoned in between 6.00am to 16.00pm and night time is reckoned in between 10.00pm to 6.00am.

- "dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.
- "A", in dB(A) Leg, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the

Leq: It is the energy mean of the noise level over a specified puriod

Note: Monitoring has been done as per GPCB protocol for Ambient Level Noise Monitoring 2015.

: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report

Sangvan Gawas Monitored by

ersha Pole Reviewed by Authorized Signatory

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E-mail_sadmanumire@md.fmail.com • Welhalle_waw.sadmanminu.com • City_DA52364H1999PTC-11037

Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(A0913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/563	23/07/2022	22/07/2023

Noise Level Meter No.2 (A0114-1408)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/561	23/07/2022	22/07/2023



B-306/307, Plot No. 61. Publi Estate. Rans Magos, Varenn, Alm. Citi Beam Rood, Berdor, Porventin. Panay-Gon-403-101. Gos State. India: (P.) (8532) 2411322 / 2411323 * E-mail: utsrbiggos@redfissal.com SBVE HEE

Latt accredited by MoEF & CC Valid up to 03.11.2023 * Certified by ISO 9001:2015 & ISO 45001: 2018

	AIR QUALITY	MONITORING REP	ORT			
Report No.	SEE/AR/11/2022/0660	Date of	Issue	29/11/202	2	
Name of Client	M/s. Megawide Construction C/o GMR Gos international	M/s. Megawide Construction DMCC C/o GMR Gos international Airport Limited				
Address of Client	Mopa, Goa					
Sample Collected By	SEEPL Representative		Environmen	ital condition of Lab		
Date of Sampling	24/11/2022	Temperature(°C)	28.0	Humidity (%)	65	
Analysis Started On	28/11/2022	Analysis Comple	ted On	29/11/2022		

Location of ambient air station	Mopa Boundary (Goa State)
Instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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Aditya Naik Analyzed by

BRANCH OFF

Varsha Pole Reviewed by

Anaposep Sawant Authorized Signatory

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210, Dennis Towers, ESC Parts, Panagerità 001. See State, India 101. (0832) 2437048 (2437104 Page 119 of 377 E-mail. sedekarmotrogradifinal com * Website www.sethetarentiris.com * Chi. Listagestets See PTC-116371

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	101-DTD-2014	EI/FF/3523	18/02/2022	17/02/2023



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Lab accredited by MoEF & CC Valid up to 63.11.2923 * Certified by ISO 9001:2015 & ISO 45801 - 2018

	AIR QUALITY	MONITORING REPO	ORT				
Report No.	SEE/AR/11/2022/0661	Date of i	ssue	29/11/202	2		
Name of Client	M/s. Megawide Construction C/o GMR Goa international	M/s. Megawide Construction DMCC C/o GMR Gos international Airport Limited					
Address of Client	Mopa, Goa						
Sample Collected By	SEEPL Representative	Environmental condition of Lab					
Date of Sampling	24/11/2022	Temperature(°C)	28.0	Humidity (%)	65		
Analysis Started On	28/11/2022	Analysis Complete	ed On	29/11/2022			

Location of ambient air station	HSD Bunk (Inside Mopa Airport Premises)	
Instruments Used	Organic Vapour Sampler	

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

Note ; Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

Analyzed by

chopdekay Varsha Pole Reviewed by

Angelopep Sawant Authorized Signatory

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/3524	18/02/2022	17/02/2023



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STAY GENERAL SRVEUE

Lab accredited by MoEF & CC Vulid up to 93.11.2023 * Certified by ISO 9001:2015 & ISO 45001 : 2018

	AIR QUALITY	MONITORING REPO	ORT			
Report No.	SEE/AR/11/2022/0662	Date of	Date of Issue		2	
Name of Client	M/s. Megawide Construction C/o GMR Goa international	M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited				
Address of Client	Mopa, Goa					
Sample Collected By	SEEPL Representative		Environmen	tal condition of Lab		
Date of Sampling	24/11/2022	Temperature(°C)	28.0	Humidity (%)	65	
Analysis Started On	28/11/2022	Analysis Completed On		29/11/2022		

Location of ambient air station	Shemecheadvan Boundary (Goa State)	
Instruments Used	Organic Vapour Sampler	

Chemical Testing - Atmospheric Pollution

		The second second second	A STATE OF THE PARTY OF THE PAR	
Sr. No.	Parameters	Result	Unit	Method
		-4.0	ppm	Method 18
01.	Total VOC	<1.0	bbin	I mening to

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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: 310. Dempo Towers, EDC Pero, Peroj.-403 001, Goa State, India V. (0832) 2437048 / 2437104 Page 123 of 377

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OV5 Sampler	101-DTD-2014	EI/FF/3523	18/02/2022	17/02/2023



6-306/367, Plot No. 81, Pater Estate, Rees Magos, Virgen, Alta, Ott Slater Road, Bardes, Porvenin, Paray-Gas-403 101. Graz Statis, India. €: (0832) 2411327 / 2411323 • 6-mail: startubgoog[radiffmail.com

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	ANALYSIS REPOR	RT FO	R WATER SAMPLE	-		
Report No.	SEE/11/2022/332		Issue Date	18/11/2		2022
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa			Tour f	0	Humidity %
Order / Reference	As per dated 14/11/2022	s per dated 14/11/2022 Environmental Condition of Lab		Temp 0	0	68
Sampling Plan	SEEPL/LD/FMT-54	SEEPL/LD/FMT-54 Sampling Procedure No.			EEP	L/QSP-10
Sampling point	Borewell No. 2					
Sample details	Ground Water		Date of collection		14/11/2022	
Sample Collected by	SEEPL Representative		Sample Received On	14/11/2022		77777
Analysis Started On	14/11/2022		Analysis Completed On	18/11/2022		2022
Sample Container	Glass bottle + PVC Can		Sample Quantity	9	1000	mi + 4000mi

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	Hq	7,16		6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.89	NTU	1.00	IS 3025 (Part 5)
3.	Taste	Agreeable	14	Not Specified	APHA(23//Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 rd Edition) 2120 B
5.	Odour	Agreeable	-2	Not Specified	APHA(23rd Edition) 2150 B
6.	Total Alkalinity	22.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	59.00	mg/lit	500.00	IS 3025 (Part 16)
В.	Chlorides as CI	12.51	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO ₄	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23 st Edition) 4500 S ² F
11.	Total Hardness as CaCO ₃	26.00	mg/lit	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0.50	IS-3025 (Part 34)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39)

1. Anisha Parab 2. Shreya Harmalkar V

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Varsha Pole

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	SEE/11/2022/332	Issue Date	18/11/2022	
Report No.	As per dated 14/11/2022	Sample Received On	14/11/2022	
Order / Reference	As per dated 14/11/2022	The state of the s	18/11/2022	
Analysis Started On	14/11/2022 Analysis completes on			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited			

Sr.	ical Testing Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method	
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26)	
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34)	
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(234Edition) 4500 F D	
17.	Phenolic compound	<0.02	rng/lit	Not Specified	APHA(23"Edition) 5530-B,C	
18.		<0.01	mg/lit	Not Specified	APHA(23/Edition) 4500 CN -D	
19.	Cyanide Anionic Detergents	<0.10	mg/lit.	Not Specified	APHA(23 rd Edition) 5540 - C	
11.75	Analysis				-	
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)	
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)	
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)	
23.	Calcium as Ca	7.21	mg/lit	Not Specified	APHA(23d Edition) 3500Ca B	
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)	
25.	Iron as Fe	0.08	mg/lit	1.00	IS 3025 (Part 2)	
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2)	
27.	Magnesium as Mg	1.45	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B	
28.	Chromium as Cr	<0.01	mg/lit.	Not Specified	APHA(23 ^{rg} Edition) 3120 B	
29.		<0.001	mg/lit.	0.001	IS 3025 (Part 2)	
30.		0.03	mg/lit	5.00	IS 3025 (Part 2)	
31.	Carlo California en Ondre	1.92	mg/lit.	Not Specified	APHA(23ªEdition) 3120 B	
32.	A STATE OF THE STA	0.88	mg/lit	Not Specified	APHA(23 diltion) 3120 B	
33.		<0.01	mg/lit	0.05	IS 3025 (Part 2)	

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 About
 Shreya Harmalkar
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Report No.	SEE/11/2022/332	Issue Date	18/11/2022
Order / Reference	As per dated 14/11/2022	Sample Received On	14/11/2022
Analysis Started On	14/11/2022	Analysis Completed On	18/11/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air	MCC port Limited	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23ºEdition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23d Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

-		Equipment Id		Calibration Details		
Sr. No.	Equipment Name		Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/168	T2022/04/020	18/04/2022	18/04/2023	
02.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022 09/06/2		
03.	U V Spectrophotometer	Q/0166	-	Inhouse Calibration		
04.	ICP- OES	Q/162		Inhouse Calibration		
05.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
06.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
07.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPO	RT FOR	WATER SAMPLE				
Report No. SEE/11/2022/331			Issue Date		18/11/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa				0.0	T discontinue of	
Order / Reference	As per dated 14/11/2022	Environmental Condition of Lab		Temp ⁰ C 28		Humidity % 66	
Sampling Plan	SEEPL/LO/FMT-54	Sampling Procedure No.		SEEPL/QSP-10		10	
Sampling point	WTP-Treated						
Sample details	Treated Water sample		Date of collection		14/11/2023		
Sample Collected by	SEEPL Representative		Sample Received On		14/11/2022		
Analysis Started On	14/11/2022	Analysis Completed On		18/11/2022		/2022	
Sample Container	Glass bottle	Sample Quantity			5000 ml		
Chemical Testing					11.5		

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	6.87	-	6.5 - 8.5 1.00	IS 3025 (Part 11)
2.	Turbidity	0.85	NTU		IS 3025 (Part 5)
3.	Taste	Agreeable		Not Specified	APHA(23 rd Edition) 2160 B
4	Color	<1.00	Hazen unit.	Not Specified	APHA(23ºEdition) 2120 B
5.	Odour	Agreeable	14	Not Specified	APHA(23 rd Edition) 2150 B
6.	Total Alkalinity	24.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	62.00	mg/lit	500.00	IS 3025 (Part 16)
8,	Chlorides as CI	13.51	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO _c	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23"Edition) 4500 S°F
11.	Total Hardness as CaCO ₃	32.00	mg/lit	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 3025 (Part 39) : 1991

1. Anisha Parab Rupo

2. Shreya Harmalkar Analyzed by

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Report No.	SEE/11/2022/331	Issue Date	18/11/2022	
Order / Reference As per dated 14/11/2022		Sample Received On	14/11/2022	
Analysis Started On	14/11/2022 Analysis Completed On		18/11/2022	
Name of Client	M/s. Megawide Construction DN C/o GMR Goa International Air			

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method		
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26)		
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34)		
16.	Fluoride as F	<0.10	mg/lit.	Not Specified	APHA(23 rd Edition) 4500 F D		
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23ªEdition) 5530-B,C		
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23ªEdition) 4500 CN -D		
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23/Edition) 5540 - C		
letal	Analysis						
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)		
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)		
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)		
23.	Calcium as Ca	6.41	mg/lit	Not Specified	APHA(23 rd Edition) 3500Ca B		
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)		
25.	Iron as Fe	0.10	mg/lit	1.00	IS 3025 (Part 2)		
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2)		
27.	Magnesium as Mg	3.88	mg/lit	Not Specified	APHA(23*Edition) 3500Mg B		
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 ^{rg} Edition) 3120 B		
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)		
30.	Zinc as Zn	0.04	mg/lit	5.00	IS 3025 (Part 2)		
31.	Sodium as Na	1.75	mg/lit	Not Specified	APHA(23 ^{rt} Edition) 3120 B		
32.	Potassium as K	0.84	mg/lit	Not Specified	APHA(234Edition) 3120 B		
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)		

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Report No.	SEE/11/2022/331	Issue Date	18/11/2022
Order / Reference	As per dated 14/11/2022	Sample Received On	14/11/2022
Analysis Started On	14/11/2022	Analysis Completed On	18/11/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air	MCC roort Limited	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34.	Total coliforms at 37°C for 48 hrs.		MPN Index/100ml	Not Specified	APHA(23 rd Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23#Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

	V			Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/168	T2022/04/020	18/04/2022	18/04/2023	
02.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022 09/06/2		
03.	U V Spectrophotometer	Q/0166		Inhouse Calibration		
04.	ICP- OES	Q/162	-	Inhouse Calibration		
05.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
06.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
07.	Laminar Air Flow	Q/001	2022/08/322	13/06/2022	13/08/2023	
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPOR	RT FOR	WATER SAMPLE				
Report No.	SEE/11/2022/333		Issue Date		18/11/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
Order / Reference	As per dated 14/11/2022	Environmental Condition of Lab		Temp ® C 28		Humidity % 68	
Sampling point	P.T.B						
Sample details	Drinking Water		Date of collection		14/11/2022		
Sample Collected by	SEEPL Representative		Sample Received On		14/11/2022		
Analysis Started On	14/11/2022	Analysis Completed On		18/11/2		/2022	
Sample Container	Glass bottle		Sample Quantity		1000 ml		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100m/	Not Specified	APHA(23 st Edition) 9221-G

Note: Test results related only to the sample lested.

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Equipment Calibration Details

		Equipment Id		Calibration Details		
Sr. No.	Equipment Name		Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological incubator (37 °C)	Q/003	T2022/08/004	13/03/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPOR	RT FOR V	VATER SAMPLE			
Report No.	SEE/11/2022/334		Issue Date		18/11/2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa Temp ° C Hu					Humidity %
Order / Reference	As per dated 14/11/2022	2022 Environmental Condition of Lab		28		68
Sampling point	Megawide Labor Colony					
Sample details	Drinking Water		Date of collection	14/11/2022		2022
Sample Collected by	SEEPL Representative		Sample Received On	14/11/2022		2022
Analysis Started On	14/11/2022		Analysis Completed On	18/11		2022
Sample Container	Glass bottle		Sample Quantity		1000 ml	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 ⁻¹ Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 ^{nl} Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/D03	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPOR	RT FOR	WATER SAMPLE			SOUR IN	
Report No.	SEE/11/2022/335		Issue Date	18/11/2022		2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa	Mopa, Goa					
Order / Reference	As per dated 14/11/2022	Environmental Condition of Lab		Temp ⁰ C 28		Humidity %	
Sampling point	L.S.C						
Sample details	Drinking Water		Date of collection		14/11/2022		
Sample Collected by	SEEPL Representative		Sample Received On		14/11/2022		
Analysis Started On	14/11/2022		Analysis Completed On	18/11/2022		2022	
Sample Container	Glass bottle		Sample Quantity		1000 ml		

Sr. No.	Parameter	er Result U		IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNindex/100ml	Not Specified	APHA(23 ^{rg} Edition) 9221-B

E. coli at 44.5°C for 24hrs. Absent MPNIndex/100ml Not Specified APHA(23rd Edition) 9221-G

Note: Test results related only to the sample tested.

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Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPOR	RT FOR W	ATER SAMPLE			
Report No.	SEE/11/2022/336		ssue Date	18/	11/2022	
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa	- 00	A Liveridity Of			
Order / Reference	As per dated 14/11/2022	4/11/2022 Environmental Condition of Lab		Temp ® C	Humidity %	
Sampling point	KMV					
Sample details	Drinking Water		Date of collection	14/11/2022		
Sample Collected by	SEEPL Representative		Sample Received On	14/11/2022		
Analysis Started On	14/11/2022		Analysis Completed On	18	11/2022	
Sample Container	Glass bottle		Sample Quantity		1000 ml	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNindex/100ml	Not Specified	APHA(23rd Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(234Edition) 9221-G

Note: Test results related only to the sample tested.

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Authorized Signatory

Equipment Calibration Details

	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPOR	RT FOR WATER SAMPLE		water and		
Report No.	SEE/11/2022/337	Issue Date	18/1	/2022		
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa		Temp ° C	Humdity %		
Order / Reference	As per dated 14/11/2022	dated 14/11/2022 Environmental Condition of Lab		66		
Sampling point	VNC Colony					
Sample details	Drinking Water	Date of collection	14/1	1/2022		
Sample Collected by	SEEPL Representative	Sample Received On	14/1	1/2022		
Analysis Started On	14/11/2022	Analysis Completed On	18/1	1/2022		
Sample Container	Glass bottle	Sample Quantity	100	1000 ml		
Microbiological Paramet	ers	In Assista				

Sr. No.	Parameter	Result	Unit	Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 ^{re} Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G

IS desirable

Note: Test results related only to the sample tested.

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Equipment Calibration Details

	Equipment Name	Equipment Id		Calibration Details		
Sr. No.			Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	O/003	T2022/08/004	13/08/2022	13/08/2023	
02	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



9-3060307, Plat fac. 61, Proof Estate, Resultingce, Verenn, Ara, Chil Basim Road, Bardoc, Poryonim, Parisip Gos-400 101. Gen Siato, India © : 10632) 24113227 2411323 € E-mail: startotigoo@roddfmilt.com

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	ANALYSIS REPO	ORT FOR	WATER SAMPLE				
Report No.	SEE/11/2022/327		Issue Date	18/11/2022			
Name of Client	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited						
Address of Client	Mopa, Goa						
V/1000 AVE-1000	7		- 1 15 00 11 1-1		Humidity %		
Order / Reference	As per dated 14/11/2022	Environmental Condition of Lab		28	66		
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.		SEEPL/QSP-10			
Sampling point	STP (150 KLD)						
Sample details	Inlet Water		Date of collection	14/11/2022			
Sample Collected by	SEEPL Representative		Sample Received On	14/11/2022			
Analysis Started On	14/11/2022		Analysis Completed On	18/11/202	2		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml			

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Sr. No.	Parameters	Results	Unit	Method
1.	рН	6.24	- 1	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	760.00	mg/lit.	APHA(23 st Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	260.00	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	147.00	mg/lit	APHA(23rdEdition) 2540-D
5.	Oil & Grease (O & G)	13.20	mg/lit	APHA(23=Edition) 5520-O &G

Note: Test results related only to the sample tested.

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chopdekar Varsha Pole Reviewed By



Anandeep Sawant Authorized Signatory

Equipment Calibration Details

	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023	
02	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023	
03	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023	
04.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023	



IS-306/307, Plot No. 81. Plater Estable. Rees Magne, Veneral Albo, Old Bellin Road. Bardate, Porvoran, Ponce-Gop-402 101. Gira State, India C.: (9832) 2411322 / 2411323 * E-mail: starkingcodffronti.com

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ANALYSIS REPO	ORT FOR	WATER SAMPLE		
SEE/11/2022/328		Issue Date	18/11/2022	
M/s. Megawide Constructio C/o GMR Goa Internationa	n DMCC Il Airport L	imited		
Mopa, Goa				+
The second of th	-	and Considerated Table	Temp ^q C	Humidity %
As per dated 14/11/2022	Environmental Condition of Lac		28	66
SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10	
STP(150 KLD)				
Outlet Water		Date of collection	14/11/2022	
SEEPL Representative		Sample Received On	14/11/2022	
14/11/2022		Analysis Completed On	18/11/2022	
Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	
	SEE/11/2022/328 M/s. Megawide Construction C/o GMR Goa International Mopa, Goa As per dated 14/11/2022 SEEPL/LD/FMT- 54 STP(150 KLD) Outlet Water SEEPL Representative 14/11/2022	SEE/11/2022/328 M/s. Megawide Construction DMCC C/o GMR Goa International Airport L Mopa, Goa As per dated 14/11/2022 Enviror SEEPL/LD/FMT- 54 Samplir STP(150 KLD) Outlet Water SEEPL Representative 14/11/2022	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited Mopa, Goa As per dated 14/11/2022 Environmental Condition of Lab SEEPL/LD/FMT-54 Sampling Procedure No. STP(150 KLD) Outlet Water Date of collection SEEPL Representative Sample Received On 14/11/2022 Analysis Completed On	SEE/11/2022/328 Issue Date 18/11/20 M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited Temp ° C Mopa, Goa Environmental Condition of Lab Temp ° C 28 SEEPL/LD/FMT- 54 Sampling Procedure No. SEEPL/QSP STP(150 KLD) Date of collection 14/11/20 SEEPL Representative Sample Received On 14/11/20 14/11/2022 Analysis Completed On 18/11/20

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	Hq	6.77		5.5 - 9.0	APHA(23rdEdition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	80.00	mg/lit	250.00	APHA(23#Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	17.00	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	55.00	mg/lit	100.00	APHA(23 ^M Edition) 2540-D
5.	Oil & Grease (O & G)	3.00	mg/lit	10,00	APHA(23 rd Edition) 5520-O &G

Note: Test results related only to the sample tested.

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Varsha Pole Reviewed By



Angadeep Sawant Authorized Signatory

Equipment Calibration Details

	Equipment Name			Calibration Details		
Sr. No.		Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023	
02	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023	
03.	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023	
04.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023	



B-306/307, Plot No. 01. Patril Estato, Rigin Magure, Viscent, Afric Old Ballos Road, Bardon, Forscorn, Parril Gost-403 101. Goo Stoler, India 🏗 (0832) 2411322 / 2411323 * E-mail: stariologica@entitinail.com

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	ANALYSIS REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/11/2022/329		Issue Date	18/11/2022	
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa		imited		
Address of Client	Mopa, Goa				
In the same of	The second second second	440000			Humidity %
Order / Reference	As per dated 14/11/2022	Environmental Condition of Lab		28	66
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10	
Sampling point	STP (KMV)				
Sample details	Inlet Water		Date of collection	14/11/2022	
Sample Collected by	SEEPL Representative		Sample Received On	14/11/2022	
Analysis Started On	14/11/2022		Analysis Completed On	18/11/2022	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.47	0.00	APHA(23*Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	480.00	mg/lit	APHA(23 ^w Edition) 5220-8
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	137.50	mg/lit	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	110.00	mg/lit	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	6.80	mg/lit	APHA(23"Edition) 5520-O &G

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Varsha Pole Reviewed By

Anapdeep Sawant Authorized Signatory

Equipment Calibration Details

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023	
02.	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023	
03.	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023	
04.	Hat Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023	



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	ANALYSIS REPO	RT FOR	WATER SAMPLE				
Report No.	SEE/11/2022/330	2000	Issue Date	18/11/20	22		
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa	M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa						
Order / Reference			and the second lab		Humidity %		
	As per dated 14/11/2022	Environmental Condition of Lab		28	66		
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10			
Sampling point	STP (KMV)	01					
Sample details	Outlet Water		Date of collection	14/11/20	122		
Sample Collected by	SEEPL Representative		Sample Received On	14/11/20	22		
Analysis Started On	14/11/2022		Analysis Completed On	18/11/20	122		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml	1000 ml + 1000ml		

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.40	-	5.5 - 9.0	APHA(23 rd Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	32.00	mg/lit	50.00	APHA(23 Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	6.00	mg/lit	10.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	12.00	mg/lit	20.00	APHA(23 ^{rg} Edition) 2540-D
5.	Oil & Grease (O & G)	2.00	mg/lit	10.00	APHA(23ªEdition) 5520-O &G
6.	Ammonia	1.68	mg/lit	5.00	APHA(23rdEdition) 4500 NH3B C
7.	Total Nitrogen (as N)	8.75	mg/lit	10.00	APHA(23rdEdition) 4500 N-B

Microbiological Parameters

1 25	Fecal coliforms at 44.5°C for 24	36	MPN Index/100ml	100	APHA (23/4Edition) 9221-E	
(C.E.C.	hrs.		THURST TOURS			

Note: Test results related only to the sample tested.

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Mugdha Gawade

2. Anisha Parab A

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Varsha Pole

Reviewed By

Anapote P Sawant Authorized Signatory

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BRANCH OFF. : 310. Dempt Towers, EDC Pate, Panel-403 001. Disa faire, India & (0502) 3437048 (2437164) Page 149 of 377 E-mail: sastinagenviro@reddmet.com * Vintrate: www.setinksinm/to.com * CIN - U45200MH1588PTC-11

Equipment Calibration Details

				Calibration Details			
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date		
01.	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023		
02.	Hot Air Oven	Q/039	T2022/05/014	09/06/2022	09/06/2023		
03.	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023		
04.	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023		
05.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023		
06.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023		
07.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023		
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023		



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	STACK EM	ISSION REPORT				
Report No.	SEE/AR/12/2022/0656	Date of Issue		03/01/2023		
Name of Client	M/s. Megawide Construction C/o GMR Goa international A					
Address of Client	Мора, Goa	Mopa, Goa				
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10		
Sample Collected By	SEEPL Representative	Env	al condition of lab			
Date of Sampling	29/12/2022	Temperature(⁰ C)	28,1	Humidity (%)	67	
Analysis Started On	29/12/2022	Analysis Complete	d On	03/01/2023		

STACK DETAILS

Attached To	Diesel Generator (2000 KVA)(Sr. No. C220025)
Shape	Round
Diameter	0.40 Mtr
Height from Ground Level	30.0 Mtr
Material of Construction	M.S.
Temperature	443 °C
Velocity of Flue Gases	15.45 m/sec
Volumetric Flue Gas Flow Rate	6991,43 m ³ /hour
Volumetric Flue Gas Flow Rate	2907,48 Nm³/hour
Type of Fuel	H.S.D.
Fuel Consumption	350.00 lit/hr
Load	1600.00 KVA (80%)

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameter	Result	Limits**	Unit	Method
01.	Particulate Matter (at 15 % O ₂)	61.39	75.00	mg/Nm ³	IS 11255 (part I)
02.	SO ₂	1.54		Kg/hour	IS 11255(Part II)
03.	NO _x (at 15 % O ₂)	283.35	710.00	ppmv	IS 11255(Part VII)
04.	CO (at 15 % O ₂)	55.34	150.00	mg/Nm ³	By Flue Gas Analyzer
05.	NMHC as C (at 15 %O ₂)	48,70	100.00	mg/Nm ³	EPA Method 25

** As per Sr. No. 94, 95, & 96 of Schedule I of "The Environment (Protection) Rules, 1986".

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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Susmita Kapdoskar

Analyzed by

Varsha Pole

Reviewed by

Authorized Signatory

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Gazettest By Mirrory of Environment, Forest & Crimitis Change, Govt Of viola, S. O. 867 (E)

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Stack Kit (SR No.458-DTH-15)

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Vayubodhan (VSS-1)	18/02/2022	17/02/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration	
01	UV	In House Calibration	

BHOOMI GAS ANALYSERS

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	Bhoomi Flexi (SI NO.5000391)	13/06/2022	12/06/2023



Sampling Plan

Sadekar Enviro Engineers Pvt. Ltd.

8-305/357, Pos No. 61, Pater Evenie, Rose Magne, Vanere, Alto, Clid Butter Road, Bonder, Porentein, Panag-Gas-463 101. Gos State, Note: 10 . ((M32) 2411322 / 2411323 * E-mail: Hartistyne(((entitline)) com

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SENS LINEAR SHALLINE.

SEEPL/OSP-10

NOISE LEVEL MONITORING REPORT SEE/AR/12/2022/0382,0322, 0439-0440, 0343, Report No. Date of Issue 03/01/2023 0423, 344 0693-0694, 0424, 0566-0567 M/s. Megawide Construction DMCC Name of Client C/o GMR Gos international Airport Limited Address of Client Mope, Goa Sample Collected By SEEPL Representative

Sampling Procedure No.

Sr. Date of No Monitoring	Disperset No.	Statio	Zo	Sampling Location		Day Time Noise in dB(A)			Night Time Noise in dB(A)		
140	monitoring		nID	ne	A THE STATE OF THE	Lmin	Lmax	Loq	Lmin	Lmax	Leg
1.	15/12/2022	SEE/AR/12/2022/0382	G-N1	1	Mopa Boundary	30.0	78.9	62.1	30.0	69,4	53.4
2.	12/12/2022	SEE/AR/12/2022/0322	G-N2	1	Shemecheadvan Boundary	30.0	75.2	60.8	31.2	71.4	54.3
3,	18/12/2022	SEE/AR/12/2022/0439	G-N3	C	Nagzar	32.5	71.2	56.3	30.4	64.3	49.8
4.	18/12/2022	SEE/AR/12/2022/0440	G-N4	R	Purva Casarvarnem	30.2	68.4	49.3	30.0	82.5	41.3
5.	14/12/2022	SEE/AR/12/2022/0343	G-N5	R	Chandel	31.6	69.5	47,7	30.3	67.4	39.8
6.	16/12/2022	SEE/AR/12/2022/0423	G-N6	R	Khajne Amere Porscodern	32.8	68.4	46.1	30.0	56.3	38.7
7.	14/12/2022	SEE/AR/12/2022/0344	G-N7	R	Warkhand	30.5	69,4	48.3	30.1	62.4	39.1
8.	30/12/2022	SEE/AR/12/2022/0693	G-N8	C	Rajvil Wada Torxem	30.0	74.5	53.2	30.2	87.2	51.3
9.	30/12/2022	SEE/AR/12/2022/0694	G-N9	C	Village Panchayat Tamboxem -Mopa- Ugvern	30.4	72.5	52.1	30.2	62.5	48.9
10.	16/12/2022	SEE/AR/12/2022/0424	M-N1	R	Satarda	30.0	67.4	45.1	30.1	67.3	38.7
11.	26/12/2022	SEE/AR/12/2022/0566	M-N2	R	Dingna	30.3	69.3	46.3	30.9	66.2	40.4
12.	26/12/2022	SEE/AR/12/2022/0567	M-N3	R	Netarde	30.8	70.4	48.4	30.3	65.3	39.9

I - Industrial Zone, C - Commercial Zone, R - Residential Zone

SEEPL/LD/FMT-54

Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows:

Area Code	Category of Area	Limits in dB(A) Leq		
Wield Code	Category of Area	Day Time	Night Time	
(A)	Industrial Area (1)	75	70	
(B)	Commercial Area (C)	65	55	
(C)	Residential Area (R)	55	45	
(D)	Silence Zone (S)	50	40	

Day time is reckoned in between 6.00am to 10.00pm and night time is reckoned in between 10.00pm to 6.00am.

"dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.

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

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

Note: Monitoring has been done as per GPCB protocol for Ambient Level Noise Monitoring 2015.

: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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Sanffvan Gawasi Monitored by

arsha Pole Reviewed by

Anandeep Sawant Authorized Signatory

HEAD DEP & LAB - Fig. No. A-95, Rough No. 16, Kolan Niegie Rosel, M.L.D.C. Wagte beloeked Area, Thorse 100, 502, Magamatika Stella Hope (E) (91-22) 25(0 332) / 25(0 3322 / 25(0 332) / 25(0 332) / 25(0 332) / € 1-mill (red) (r

Septent By Manay of Environment, Florest & Comple Charge, Gost Chimbe, S. D. 857, 83

BRANCH OFF. 210, Demps Towers, EDC Puthi, Panaji-403-001. Gos Sano, India V. (URSZ) 2437081 (2437081)

E-mail: ascellarametric@indiffront.com * With the Way specific remailed com * City - LHS_dWH+10/EPTC 111Page 153 of 377

Calibration Details of Equipment used for Sampling

Noise Level Meter No.1(AD913-1393)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/563	17/07/2022	16/07/2023

Noise Level Meter No.2 (A0114-1408)

Sr No.	Equipment Name	Calibration Certificate No.	Calibrated on	Calibration due date
01	Noise Level Meter	LES-CCL/MECH/SLM/561	23/07/2022	22/07/2023



B-300/307, Michila, R1, Palet Eutote, Place Majore, Viseon, Allo, Old Basen Road, Banditz, Ponyone, Parag-Gros-453, 101: Gros State, India, IV. (0832) 2411322 / 2411323 € E-mail: startstypos@milithreat.com

SHELLY

Chit Lines

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		AME	HENT	AIR QUA	ALITY MONIT	ORING	REPOR	T		
Rep	ort Date	31/12/2)22							
Name of Client M/s. Megawide (C/o GMR Goa int						ed				
Address of Client Mopa, Goa										
Sampling Plan SEEPL/LD/FMT				- 54	Sampling Proce	dure No.	S	EEPL/QSP-10	0	
San	ple Collected	By SEEPL Re	presen	tative						
Month of Sampling December 2022										
				AMBIE	NT AIR LOCAT	ION				
Loc	ation of ambie	nt air station	Mop	a Bounda	ry (Goa State) (G-A1)				
Average Ambient Temperature (°C) 31.5				Averag	ge Humidity (%)	65	Latitude	N 15045'S	1.1*
Average Wind Speed (km/hr) 1.6			1.6	Averag	ge Wind directi	on (Deg)	213	Longitude	E 73º56'3	2.4"
Inst	ruments Used		FPS(APM-550), RDS(APM-46	0) &GPS (APM - 4	11)		
Sr.	Date of	Report No.				PAF	RAMETI	RS		
No	Sampling Report No.			PM ₉₂	PM _{2.5}	SO ₂	NO	x CO	SPM	Pb
1	01/12/2022	SEE/AR/12/2022	/0030	76.54	15.76	5.87	9.5	4 0.06	95.84	<0.1
Z	05/12/2022	SEE/AR/12/2022	/0116	37.29	13.18	<3.00	<6.0	0.05	58.42	<0.1
3	08/12/2022	SEE/AR/12/2022	/0232	73.35	18.13	5.40	9.3	5 0.07	98.92	<0.1
4	12/12/2022	SEE/AR/12/2022	/0312	68.15	12.20	3.40	6.1	2 0.05	85.40	<0.1
5	15/12/2022	SEE/AR/12/2022	/0373	68.18	20.16	3.60	6.0	8 0.07	86.87	<0.1
6	19/12/2022	SEE/AR/12/2022	/0441	62.30	15.21	4.46	6.4	8 0.06	80.24	<0.1
7	22/12/2022	SEE/AR/12/2022	/0507	70.11	16.33	5.21	8.2	4 0.07	88.36	< 0.1
8	26/12/2022	SEE/AR/12/2022	/0557	78.06	20.10	4.61	<6.0	0.05	101.26	< 0.1
9	29/12/2022	SEE/AR/12/2022	/0657	72.35	16.18	7.43	<6.0	80.0	91.24	< 0.1
	NAA	QS Limits*		100	60	80	80	4	1.0	1
		Units		µg/ m³	μg/m³	µg/m³	µg/1	m ³ mg/m ³	μg/m³	μg/n
		Method		IS 5182 (Part 23)	Lab SOP NO.: SEE/LO/SOP- AA-04	IS 5182 (Part 02)	IS 51 (Part	W. C.	IS 5182 (Part IV)	IS 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

- : Test results relate only to the condition prevailing at the time of sampling
- : This certificate may not be reproduced in part, without the permission of this laboratory.
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- : Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattade Attack 2)Dipali Sawant Buil

Analyzed by

Varsha Pole Reviewed by (No.

Anandeep Sawant Authorized Signatory

HEAD OFF & LAB I: Plot Air. A-Jib. Road No. 16, Knain Nager Road, M FD,C. Wigne behaviour Area. Tropic - 400 054. Minimization State. India. (c) / JB1-22) 2543-3321 / 2563-3322 / 2562-3323 / 2563-3324 E-mail. (c) ((malekorewise.com i pusibioe/biggrand state.)

Digentied By Weintry of Engineering, Road & Climate Change: Gov. (3 India. S. 12, 657-6)

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2881-DTH-2020)	-	23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 991-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI		23/09/2022	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



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Leb accredited by McEF & CC Visid up to 03, 11,2023 & Certified by ISO 9001,2015 & ISO 45001 : 2018.

SEVE LITTER SHIELDA

		AM	BIENT	AIR QUA	LITY MONIT	ORING	REPOR	RT		
Rep	ort Date	31/12	2022							
Nan	ne of Client				tion DMCC al Airport Limi	ited				
Address of Client Mopa, Goa				17	•					
Sampling Plan SEEPL/LD/FM				T-54	Sampling Pro	cedure No		SEEPL/QSF	-10	
San	ple Collected	By SEEPL	Represe	entative				**************************************		
Mor	nth of Samplin	g Decem	ber 202	2						
				AMBIE	NT AIR LOCAT	ION				
Loc	ation of ambie	nt air station	Sher	necheadva	ın Boundary(G	oa State) (G-A2)			
Average Ambient Temperature (°C) 31.8				Averag	e Humidity (%)	67	Latitude	N 15º42'0	6.1"
Average Wind Speed (km/hr) 1.8			Averag	Average Wind direction (Deg) 232				ingitude E 73º49'21.5"		
Inst	ruments Used		FPS((APM-550)	, RDS(APM-46	0) &GPS (A	APM - 4	11)		
Sr.	Date of	Report No.				PAR	RAMET	ERS		
No	Sampling	Nepolt No	port No.		PM _{2.5}	SO ₂	NO	x CO	SPM	Pb
1	01/12/2022	SEE/AR/12/2022	10031	64.21	18.91	<3.00	9.7	9 0.05	85.76	<0.1
2	05/12/2022	SEE/AR/12/2022	/0117	70.69	*22.50	4.49	8.6	9 0.07	98.43	< 0.10
3	08/12/2022	SEE/AR/12/2022	/0233	71.24	23.54	3.30	8.9	5 0.05	100.39	< 0.1
4	12/12/2022	SEE/AR/12/2022	/0313	49.90	19.13	<3.00	6.2	8 0.06	69.78	< 0.10
5	15/12/2022	SEE/AR/12/2022	/0374	40.55	11.89	<3.00	<6.0	0.07	52.48	< 0.10
6	19/12/2022	SEE/AR/12/2022	/0442	62.48	16.63	4.30	9,5	9 0.08	81.87	< 0.1
7	22/12/2022	SEE/AR/12/2022	/0508	71.05	17,34	5.54	10.5	0.06	93.13	<0.10
8	26/12/2022	SEE/AR/12/2022	/0558	65.92	13.76	5.12	<6.0	0.05	85.79	< 0.10
9	29/12/2022	SEE/AR/12/2022	/0658	81.46	25.82	6.50	10.2	0.09	114.82	< 0.1
	NAA	QS Limits*		100	60	80	80	4	-	1
		Units		μg/ m ²	μg/m³	µg/m³	µg/1	m ³ mg/m ³	µg/m³	µg/m
		Method		IS 5182 (Part 23)	SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 51 (Part	Tallian Control of the Control	Control of the contro	IS 518 (Part 2

"NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

: Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattade 2) Dipali Sawant

Analyzed by

Varsha Pole

Reviewed by

Anendeep Sawant Authorized Signatory

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2871-DTG-2020)		23/09/2022	22/09/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 992-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI		23/09/2022	22/09/2023

5r No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B-305/307, Plut Mic 61, Potel Estinic Reis Magos, Verent Alta, Old Belles Road, Bartour Porvoren, Panag-Goal-403 101 Geo State, India: 10 ... (0637) 2411322 / 2411323 4 15 mail: statistiggos@ecoBook.com

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SWELLEY SWELLEY

			AMBI	ENT	AIR QUA	ALITY MONI	TORING	REPO	RT		
Re	port Date		31/12/2								
Name of Client M/s. Megawid C/o GMR Goa				gawid CGoa	e Constru internatio	ction DMCC nal Airport Lin	nited				
Address of Client Mopa, Goa						***************************************					
Sampling Plan SEEPL/LD/FN				D/FM	T- 54	Sampling Pro	cedure No).	SEEPL/QS	P-10	
Sar	nple Collected	Ву	SEEPL R	epres	entative						
Mo	nth of Samplin	ıg	Decembe	er 202	2						
					AMBIE	NT AIR LOCAT	ION				
Loc	ation of ambie	ent air stat	tion	Nag	zar(Goa S	tate) (G-A3)					
-	erage Ambient	ment of the second second second second	addition to the second	31.7	Avera	ge Humidity (%	6)	67	Latitude	N 15º45"	37.3"
Ave				1.5	Avera	ge Wind direct	ion (Deg)	227	Longitude	E 73º53'1	4.22"
Inst	truments Used			FP5(APM-550), RDS(APM-46	60) &GPS (APM -	411)		
Sr.	Date of	P	eport No.		1		PAR	AMET	ERS		
No	Sampling	38	aport No.		PM ₁₀	PM _{2.5}	SO ₂	NO	x CO	SPM	Pb
1	01/12/2022	SEE/AR/	/12/2022/	0032	86.14	30.81	5.70	12.0	0.10	123.07	<0.1
2	05/12/2022	SEE/AR/	/12/2022/	0118	80.11	25.31	6.58	12.8	80.0	115.09	<0.1
3	08/12/2022	SEE/AR/	12/2022/	0234	81.37	-44.48	7.11	14.8	0.09	140.67	<0.1
4	12/12/2022	SEE/AR/	12/2022/	0314	55.86	26.46	3.97	<6.0	0.06	96.88	<0.1
5	15/12/2022	SEE/AR/	12/2022/0	0375	64.58	21.60	4.28	8.2		90.43	<0.1
6	19/12/2022	SEE/AR/	12/2022/0	0443	81.46	27.39	5.30	14.7	0 0.10	104.91	<0.1
7	22/12/2022	SEE/AR/	12/2022/0	0509	83.75	21.09	4.38	7.3	-	111.31	<0.1
8	26/12/2022	SEE/AR/	12/2022/	0559	75.89	24.68	4.25	7.8	5 0.06	101.40	<0.1
9	29/12/2022	SEE/AR/	12/2022/0	0659	84.16	27.90	7.15	10.9	7 0.08	114.58	<0.1
	NAA	QS Limits	•		100	60	80	80	4	-	1
		Units			μg/ m ³	µg/m³	µg/m³	µg/n	ng/m ³	μg/m³	μg/m
		Method			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	(Part (82 15 5182	IS 5182 (Part IV)	IS 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1) Akash Pattade Hattas

2)Dipali Sawarit & Analyzed by Varsha Pole

Reviewed by

Anarideep Sawant Authorized Signatory

HEAD OFF, & LAB 1. Plut Ho. A-55. Fluid No. 16, Plaint Higgs Read, M.L.D.C. Vergle Industrial Area, Thomy - 400-004. Muhammana State. India. (F): (81) 22; 2563-3321 (2583-3322 / 2583-3322 / 2583-3323 / 2583-3324 * E-mix. programmin.com (pseidoset/Sigmid non

Guantied By Ministry of Environment, Forest & Climate Change, Cord Of India. B. D. 657 (C)

OFF 310, Deepe Yowen, EDC Patts, Panep-405 001, Oce State, Inda (C. 10802) 2457046 / 2457164

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Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1719-DTI-2012)	LES-CCL/FF/MF/SC/1716	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No. Equipment Name		Calibration		
01	UV	In House Calibration		

Fine Particulate Sampler (SR NO. 1114 L 21)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2021-22/FLOW/3683	07/01/2022	07/01/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B. IIIECOT, Pict No. 61, Polal Estate, Ruis Magais, Verem, Alta, CM Baster Road, Basting, Porspren, Panag-Gros-HD 1811 Gair Baste, tedas, 161 (0652) 3411322 / 3411323 • 15 mail | starratigos@monthsist.com

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SPACE UMBOY

		An	/IBIE	NT.	AIR QUA	ALITY MONI	TORING	REPOR	RT		
Rep	port Date	31/1	2/20	122							
Name of Client M/s. Megawid C/o GMR Goa						ction DMCC nal Airport Lin	nited				
Add	dress of Client	Мор	a, Goz	1							
San	npling Plan	SEEF	L/LD)/FM	T- 54	Sampling Pro	ocedure No	16	SEEPL/QS	P-10	
San	nple Collected	By SEEF	L Re	prese	entative						
Mo	nth of Samplin	g Dece	mber	202	2						
					AMBIE	NT AIR LOCAT	rion				
Loc	ation of ambie	nt air station	- 1	Purv	a Casarvi	arnem (Goa Sta	ite)(G-A4)				
Ave	erage Ambient	Temperature ((C)	30.8	Avera	ge Humidity (9	6)	64	Latitude	N 15041'	11.9"
Ave	rage Wind Spe	eed (km/hr)		1.5	Avera	ge Wind direct	ion (Deg)	225	Longitude	E 73°50'1	6.6"
Inst	ruments Used			FPS(APM-550), RDS(APM-4	60) &GPS (APM -	111)		
Sr.	Date of	Depart 1	la				PAR	AMETE	RS		
No	o Sampling Report No.		PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	SPM	Pb		
1	01/12/2022	SEE/AR/12/20	22/0	033	72.11	14.64	5.38	11.43	0.06	89.23	< 0.10
Z	05/12/2022	SEE/AR/12/20	22/0	119	69.47	22.68	6.15	11.16	0.05	98.33	<0.10
3	08/12/2022	SEE/AR/12/20	22/0	235	78.58	31.84	7.47	14.58	80.0	116.57	<0.10
4	12/12/2022	SEE/AR/12/20	22/0	315	33.23	15.97	<3.00	<6.00	0.03	50.34	<0.10
5	15/12/2022	SEE/AR/12/20	22/0	376	52.81	16.03	<3.00	6.64	0.06	68.32	<0.10
6	19/12/2022	SEE/AR/12/20	22/0-	444	62.94	11.66	7.64	10.30	0.08	75.19	<0.10
7	22/12/2022	SEE/AR/12/20	22/0	510	84.96	18.01	8.38	11,48	0,07	108.82	<0.10
8	26/12/2022	SEE/AR/12/20	22/0	560	59.64	11.93	3.85	9.44	0.06	71.67	<0.10
9	29/12/2022	SEE/AR/12/20	22/0	660	38.34	7.85	<3.00	<6.00	0.05	51.79	<0.10
	NAA	QS Limits*			100	60	80	80	4	-	1
		Units			μg/ m ³	μg/m³	μg/m³	μg/m	mg/m³	µg/m³	μg/m
		Method			IS 5182 (Part 23)	Lab SOP NO.; SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 518 (Part 0		IS 5182 (Part IV)	IS 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1) Akash Pattado Alectos 2) Dipali Sawant

Analyzed by

Varsha Pole Reviewed by 2

Anandeep Sawant Authorized Signatory

HEAD OFF, & LAB : Plut No. A-Rt. Road No. 16, Wood Negar Road, M.J.D.C. Wages Indicated Area. Plante - 400 504. Manusement State. India.

(f) : 181-22): 2563-3321 / 2583-3322 / 2583-3023 / 2583-3024 E-road. proligoside korenero com / produtor tiggoposis com Caurence Dy Woods y C Englande Change. God Director. 3, Cl. 657 (E).

BRANCH OFF

(310, District Townes, EDC Patric, Plante-403 001, Can Shin, India (5) (0832) 2437048, (2437104)

E-enal and district to Canada Canada

Respirable Dust Sampler's with Gaseous Sampling

Sr No. Equipment Name		Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 (SR NO.2893-DTJ-2020)		23/09/2022	22/09/2023	

UV Spectrophotometer

Sr No. Equipment Name		Calibration		
01	UV	In House Calibration		

Fine Particulate Sampler (SR NO. 983-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI		23/09/2022	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date	
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023	



B-305/307 - Plot No. 61 - Platel Estato. Ross Magos: Virtum: Alto. Citi Better Ross, Bartist. Porvonen, Panop Good-803 1811 Gos State, Jedin. (C) - (6632) 2411322 / 2411323 * E-mail: satisfagos@reciffmat.com

Lab accredited by MoEF & CC Visid up to 03.11.2023 * Certified by ISO 9001:2015 & ISO 45001 ; 2018

SWELFE.

		AMI	BIENT	AIR QU	ALITY MONI	TORING	REPOR	T		
Rep	oort Date	31/12/	2022							
Nar	me of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limite							
Ado	iress of Client	Mopa,	ioa							
San	npling Plan	SEEPL	LD/FM	T- 54	Sampling Pro	cedure No	. S	EEPL/QSP-1	0	
San	nple Collected	By SEEPL	Represe	entative						
Mor	nth of Samplin	g Decem	ber 202	2						
				AMBIE	NT AIR LOCA	rion				
Loc	ation of ambie	nt air station	Khaj	ne Amere	Porscodem (C	oa State) (G-A5)			
Ave	rage Ambient	Temperature (°C)	31.2	Avera	ge Humidity (9	6)	66	Latitude	N 15º40'3	8.0"
Ave	rage Wind Spe	ed (km/hr)	1.3	Avera	ge Wind direct	ion (Deg)	243	Longitude	E 73º46'2	1.2"
Inst	truments Used		FPS(APM-550), RDS(APM-46	0) &GPS (APM - 4	11)		
Sr.	Date of	D4 N				PAR	AMETE	RS		
No	Sampling	Report No.		PM ₁₀	PM _{2.5}	502	NOx	CO	SPM	Pb
1	01/12/2022	SEE/AR/12/2022	/0034	54.18	20.11	4.01	12.20	0.05	75.49	< 0.10
2	05/12/2022	SEE/AR/12/2022	/0120	42.28	17.80	<3.00	8.96	0.05	65.89	< 0.10
3	08/12/2022	SEE/AR/12/2022	/0236	52.26	22.67	<3.00	<6.00	0.03	76.89	<0.10
4	12/12/2022	SEE/AR/12/2022	/0316	37.40	6.99	<3.00	<6.00	0.05	47.94	<0.10
5	15/12/2022	SEE/AR/12/2022	/0377	30.44	8.15	<3.00	<6.00	0.03	42.68	<0.10
6	19/12/2022	SEE/AR/12/2022	/0445	41.44	16.34	4.23	< 6.00	0.06	62.28	< 0.10
7	22/12/2022	SEE/AR/12/2022	/0511	59.33	19.46	<3.00	6.67	0.08	80.85	< 0.10
8	26/12/2022	SEE/AR/12/2022	/0561	36.29	10.27	<3.00	<6.00	0.03	47.60	< 0.10
9	29/12/2022	SEE/AR/12/2022	/0661	52.30	20.29	<3.00	11.03	0.05	73.92	< 0.10
	NAA	QS Limits*		100	60	80	80	4	-	1
		Units		μg/ m ³	µg/m³	μg/m³	μg/m	mg/m³	μg/m³	μg/m
	1	Method		IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 518 (Part 0		IS 5182 (Part IV)	IS 5182 (Part 22

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattadey (2) 2)Dipali Sawant

Analyzed by

Varsha Pole

Reviewed by

Anandeep Sawant Authorized Signatory

HEAD OFF, A LAB : Plot No. A-96, Reset No. 16, Youne Neger Road, M I D.C. Wagle Industrial Area, There + 400 604. Management State, India-

© : (0.7.23) 2083 2024 / 2083 3322) 2080 3322) 2080 3324 € +(o.6. pro@common.com) (productor) (grand com

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Respirable Dust Sampler's with Gaseous Sampling

Sr No. Equipment Name		Certificate No.	Calibrated on	Calibration due date	
01	RDS- APM 460 (SR NO. 2024-DTD-2016)	LES-CCL/FF/MF/SC/1722	13/07/2022	12/07/2023	

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	in House Calibration

Fine Particulate Sampler (SR NO. 1119 A 22)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	ECL/SEEPL/2021-22/FLOW/3682	07/01/2022	07/01/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



8-308797, Plot No. 61, Palet Estate, Non-Mayors, Visson, Allo Cid Balen Front, Bardet, Princeton, Panay-Gos 403 101 Gos Sale, India (C): (0832) 2411322 / 2411323 * E-mail: stanlehgos@needfinal.com

Lab accredited by MoEF & CC Valid up to 03.11.2023 # Certified by ISO 9001:2015 A ISO 45001 : 2018

SEVERIMENT SEVERIME

		1	AMBI	ENT A	AIR QUA	LITY MONIT	ORING	REPO	RT			
Report Date 31/12/2022				022								
Name of Client M/s. Megawide C/o GMR Goa i						tion DMCC nal Airport Lim	ited					
Add	lress of Client	Mo	opa, Go	a								
San	ipling Plan	SE	EPL/L	D/FM	T- 54	Sampling I	rocedur	e No.	SE	EPL/QSP	10	
San	ple Collected	By SE	EPL R	prese	ntative							
Mo	nth of Samplin	g De	ecembe	r 202	2							
					AMBIE	NT AIR LOCAT	ION					
Loc	ation of ambie	nt air station		Rajv	l Wada Te	orxem (Goa Sta	te)(G-A6)				
Ave	rage Ambient	Temperature	(°C)	30.9	Average	Humidity (%)		65	Lati	tude	N 15º48'4	0.0"
Average Wind Speed (km/hr) 1.7			1.7	Average	e Wind directio	n (Deg)	234	Lon	gitude	E 73º52'5	0.2"	
Inst	ruments Used			FPS(APM-550), RDS(APM-46	0) &GPS	(APM -	411]			
Sr.	Date of	Denn	-1 61-				PAI	RAMET	ERS			
No	Sampling Report No.		IT NO.		PMto	PM _{2.5}	SO ₂	N	Ox	co	SPM	Pb
1	01/12/2022	SEE/AR/12/	/2022/0	0035	74.34	19.02	5.86	8.	80	0.08	98.77	< 0.10
2	05/12/2022	SEE/AR/12/	/2022/0	0121	53.07	30.48	5.18	<6	.00	0.05	94.06	< 0.10
3	08/12/2022	SEE/AR/12/	/2022/0	0237	87.35	24.20	8.95	10	.86	0.09	121.77	<0.10
4	12/12/2022	SEE/AR/12/	/2022/0	317	32,40	10.69	<3.00	<6	.00	0.03	43.25	< 0.10
5	15/12/2022	SEE/AR/12/	/2022/0	3378	38.14	12.52	<3.00	<6	.00	0.05	46.70	< 0.10
6	19/12/2022	SEE/AR/12/	/2022/0	0446	61.76	17.38	6.65	9.	76	0.07	80.04	< 0.10
7	22/12/2022	SEE/AR/12/	/2022/0	512	69.42	13.60	5.18	8.	07	0.05	84.82	< 0.1
8	26/12/2022	SEE/AR/12/	/2022/0	0562	61.89	16,30	<3.00	<6	.00	0.05	83.14	<0.10
9	29/12/2022	SEE/AR/12/	/2022/0	0662	50.98	17.17	5.17	8.	92	0.06	68.33	<0.1
	NAA	QS Limits*			100	- 60	80	8	0	4	-	1
		Units			μg/ m ³	μg/m³	μg/m³	μg	mI	mg/m³	μμ/m³	ду/п
		Method			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	7.75	182 t 06)	IS 5182 (Part 10)	IS 5182 (Part IV)	15 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattade Water

Analyzed by

Varsha Pole

Reviewed by

English and a second

Arrandeep Sawant Authorized Signatory

HEAD OFF, & LAB. Plot No. A-15, Rout No. 16, Kneet Negar Royd, M.L.D.C. Weight Inhustric Anni. There—400-001. Matematics Stom. India. 21 (81-22) 2565-2021 (2563-3022 (2563-3023 (2563-3024 E-mod. prod)action on Capacital by Markly of Encounters. Forest & Climate Change (354-0) (81-0) (8-0) (8-0) (8-0)

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO.2891-DTJ-2020)		23/09/2022	22/09/2023

UV Spectrophotometer

5r No. Equipment Name		Calibration		
01	UV	In House Calibration		

Fine Particulate Sampler (SR NO. 298-DTJ 2014)

5r No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	Et/FF/3539	18/02/2022	17/02/2023

Sr No.	Instrument Type	Calibrated on Calibration due	
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B-STRIDGT, Plot No. 81, Publi Estate, Rela Magara, Variani. Alto, Del Busin Road, Bandela, Porvision, Porego Geo 403 101. Gen State. Insta. 16. (2002) 2411322 / 2411323 * Elenasi. etatological/problems now.

Lab accredited by MoEF & CC Valid up to 03.11.2022 ★ Certified by ISO 9001:2015 & ISO 45001 - 2018

SDACTAS

			AMBI	ENT A	AIR QUA	ALITY MONIT	FORING	REPO	RT		
Report Date 31/12/2022				022							
Name of Client M/s. Megawide C/o GMR Goa i				Mr. Committee of the Co			nited				
Add	iress of Client		Mopa, Go	oa			V				
San	npling Plan		SEEPL/L	D/FM	T- 54	Sampling	Procedure	No.	SEEPL/QS	P-10	
San	ple Collected	Ву	SEEPL R	eprese	ntative						
Moi	nth of Samplin	g	Decembe	er 202	2		and the				
					AMBIE	NT AIR LOCAT	ION				
Loc	ation of ambie	nt air sta	tion	Satar	da[Maha	rashtra State)(M-A1)				
Ave	rage Ambient	Tempera	ture (°C)	30.5	Averag	e Humidity (%)	68	Latitude	N15º43'0	1.3"
Average Wind Speed (km/hr)			1,3	Averag	e Wind direction	on (Deg)	207	Longitude	E 73º46'0	0.2"	
Inst	ruments Used			FPS(APM-550), RDS(APM-46	60) &GPS	(APM -	411)		
Sr.	Date of		lanest No.				PAI	RAMET	ERS		
No	Sampling Report No.			PM ₁₀	PM _{2.5}	SO ₂	NO	x CO	SPM	Pb	
1	01/12/2022	SEE/AR	/12/2022/	0036	48.12	10.56	4.67	<6.0	0.05	60.31	<0.10
2	05/12/2022	SEE/AR	/12/2022/	0122	58.00	9.48	<3.00	<6.8	0.06	69.18	< 0.10
3	08/12/2022	SEE/AR	/12/2022/	0238	43,44	7.58	<3.00	<6.1	0.03	53.12	<0.10
4	12/12/2022	SEE/AR	/12/2022/	0318	42.18	12.57	<3.00	<6.1	0.05	55.00	< 0.10
5	15/12/2022	SEE/AR	/12/2022/	0379	36.87	9.54	<3.00	<6.1	0.03	53.80	< 0.10
6	19/12/2022	SEE/AR	/12/2022/	0447	58.06	17.47	8.80	<6.4	0.06	76.80	<0.10
7	22/12/2022	SEE/AR	/12/2022/	0513	52.13	13.97	<3.00	<6.6	0.05	66.44	<0.10
8	26/12/2022	SEE/AR	/12/2022/	0563	36.76	9.81	<3.00	<6.5	0.05	52.85	< 0.10
9	29/12/2022	SEE/AR	/12/2022/	0663	51.33	16.80	<3.00	6.2	4 0.06	70.89	< 0.10
	NAA	QS Limits	5*		100	60	80	80	4	-	1
		Units			μg/ m ³	µg/m³	μg/m³	µg/	m ³ mg/m ³	μg/m ³	μg/m
	- 0	Method			IS 5182(Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	(S 5182 (Part 02)	IS 51 (Part	CONTRACTOR OF THE PARTY OF THE	IS 5182 (Part IV)	IS 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

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: Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattade 4 2)Dipali Sawant 2

Analyzed by

Varsha Pole

Reviewed by

Anendeep Sawant Authorized Signatory

HEAD OFF, & LAB. | Phi No. A-75, Stool No. 10, 10-viry flager flater, M.L.D.C., Wager todustral Area, Thora, < 400-004. Merunastrate Elete. mich.
⟨⟨*⟩ | (01-42)-2563-332/) / 2565-3322 / 2565-3323 / 2565-330/ ◆ € mich. profilesthylamore com / profilest-statisgraph com

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BRANCH OFF: 1310, Dumpo Townris, EDC Plattic, Panag-403 001. Gos Stutis, britis (7): (0832) 2437146 / 2437164

Page 167 of 377

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1461-DTD-2009)	LES-CCL/FF/MF/SC/1715	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 980-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	-	23/09/2022	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023



B-306/307, Pod No. 61, Pinel Scioni, Ren Majori, Veneri, Ato, Chi Steine Road, Serinz, Porsoner, Panaj-Goa-483 101 Goa State: India (€) (0932) 3411322 / 3411323 € E-mail: narrietypra@eastfoot.com

Lab accredited by MoEF & GC Waterup to 03:11:2923 * Certified by ISO 9001:2015 & ISO 45001 - 2018.

CONTRACTOR

		AM	BIENT	AIR QUA	LITY MONIT	ORING	REPO	RT		
Rep	ort Date	31/12	/2022							
Nan	ne of Client				ction DMCC nal Airport Lim	ited				
Add	ress of Client	Мора,	Goa		W.					
San	pling Plan	SEEPI	/LD/FN	AT- 54	Sampling F	rocedure	No.	SEEPL/QSF	-10	
San	ple Collected	By SEEPL	Repres	entative						
Mor	nth of Samplin	g Decen	ber 20	22						
				AMBIE	NT AIR LOCATI	ON				
Loc	ation of ambie	nt air station	Din	gna(Mahar	rashtra State)(N	1-A2)				
Ave	rage Ambient	Temperature (°C	31.	Average	e Humidity (%)		66	Latitude	N 15º46'	12.3"
Average Wind Speed (km/hr) 1.5		Average	e Wind directio	n (Deg)	234	Longitude	E 73º49'2	20.5"		
Inst	ruments Used		FPS	(APM-550), RDS(APM-46	0) &GPS	(APM -	411)		
Sr.	Date of	Report No				PAI	RAMET	ERS		
No	Sampling	Report No	,	PM ₁₀	PM _{2,5}	SO ₂	NC)x CO	SPM	Pb
1	01/12/2022	SEE/AR/12/202	2/0037	61.83	15.40	<3.00	9.8	0.06	79.33	<0.10
2	05/12/2022	SEE/AR/12/202	2/0123	47.10	26.86	<3.00	9.1	1 0.05	76.28	<0.10
3	08/12/2022	SEE/AR/12/202	2/0239	64.12	8.03	7.06	7.6	0.06	75.64	< 0.10
4	12/12/2022	SEE/AR/12/202	2/0319	45.65	19.00	6.30	<6.	00 0.07	66.73	< 0.10
5	15/12/2022	SEE/AR/12/202	2/0380	58.04	14.78	4.20	7.2	1 0.05	70.56	<0.10
6	19/12/2022	SEE/AR/12/202	2/0448	54.63	11.10	5.22	9.2	3 0.06	68.39	< 0.10
7	22/12/2022	SEE/AR/12/202	2/0514	49.40	15.14	3.65	7.7	7 0.05	74.83	< 0.10
8	26/12/2022	SEE/AR/12/202	2/0564	39.96	7.86	5.96	<6.	0.03	53.02	< 0.10
9	29/12/2022	SEE/AR/12/202	2/0664	49.14	8.69	6.79	<6.	0.05	58.95	< 0.10
	NAA	QS Limits*		100	60	80	8	0 4	-	1
		Units		μg/ m ³	µg/m³	μg/m³	µg/	m³ mg/m³	µg/m³	μg/m
		Method		IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 51 (Part		IS-5182 (Part IV)	15 518 (Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

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: Test methods of analyzed parameters are back side of analysis report.

1) Akash Pattade | 1 2) Dipali Sawant

Analyzed by

Varsha Pole

Reviewed by

Anandeep Sawant Authorized Signatory

HEAD OFF & LAB / Phil No. A-95, Final No. 16, Know Regar Road, M.Y.D.C. Wages Industrial Area. There > 400 004. Measurables State. Profit. (2) 494 (2) 2583-3021 (2583-302) (258

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1 510, Dempe Towers, EDC Petis, Panal-403 001. Gos State, India 47 (0832) 2437048 / 2437164

±-mail: padekarumino@yudrfmiii.com • Webcite: www.andremmino.com • CN - Utb.2004H1998F1C-11 Page 169 of 377

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 138 L 21)	ECL/SEEPL/202122/FLOW/3668	07/01/2022	07/01/2023

UV Spectrophotometer

Sr No.	Equipment Name	Calibration
01	UV	In House Calibration

Fine Particulate Sampler (SR NO. 01-DTK-2011)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 LC	EI/FF/3543	18/02/2022	17/02/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022 17/11/2023	



6-306/307, Plait No. 61, Plain Eshap, Nece Magon, Verent, Ale. Old Batter Houst, Biecke, Porcerus, Pangi Gos-403 101. Gesi State: India (C. (0832) 2411322 / 3411323 ● E-mill .ttertabgeoi@exclibroil.com

Life appreciated by MisEF & CC Valid up to U3.11.2023 * Certified by ISO 9001/2015 & ISO 45001 - 2018.

STAN PRINCELL SHALLINE

			AMBI	ENT	AIR QUA	ALITY MONI	TORING	REPO	RT		
Rep	port Date		31/12/2	022							
Nar	me of Client		The second secon			ction DMCC nal Airport Lir	nited				
Add	dress of Client		Mopa, Go	oa							
San	npling Plan		SEEPL/L	D/FM	T- 54	Sampling	Procedur	e No.	SEEPL/QS	P-10	
San	nple Collected	Ву	SEEPL R	eprese	entative						
Mo	nth of Samplin	g	Decembe	er 202	2						
					AMBIE	NT AIR LOCA	TION				
Loc	ation of ambie	nt air stat	ion	Neta	rde(Maha	ırashtra State)	(M-A3)				
Ave	rage Ambient	Temperat	ure (°C)	31.4	Averag	e Humidity (%)	65	Latitude	N 15º46	11.7"
Average Wind Speed (km/hr) 1.4		1.4	Averag	e Wind directi	on (Deg)	218	Longitude	E 73°50	'48.0"		
Inst	truments Used			FPS(APM-550), RDS(APM-4	60) &GPS	(APM -	411)		
Sr.	Date of	R	eport No.				PA	RAMETI	ERS		
No	Sampling		port inc.		PM ₁₀	PM _{2.5}	SO ₂	NOx	CO	SPM	Pb
1	01/12/2022	SEE/AR/	12/2022/	8800	69.32	18.88	5.49	7.89	0.08	91.28	< 0.10
2	05/12/2022	SEE/AR/	12/2022/	0124	57.59	17.01	5.91	<6.00	0.06	75.91	< 0.10
3	08/12/2022	SEE/AR/	12/2022/	0240	79.14	37.43	7.97	11.60	0.07	118.42	< 0.10
4	12/12/2022	SEE/AR/	12/2022/	0320	68.69	16.30	6.79	6.21	0.05	91.96	< 0.10
5	15/12/2022	SEE/AR/	12/2022/	0381	51.76	11.52	5.07	<6.00	0.06	63.68	< 0.10
6	19/12/2022	SEE/AR/	12/2022/	0449	50.49	15.55	6.05	8.30	0.07	67.24	< 0.10
7	22/12/2022	SEE/AR/	12/2022/	0515	63.67	19.05	3.57	7.26	0.08	89.63	< 0.10
8	26/12/2022	SEE/AR/	12/2022/	0565	68.02	11.64	<3.00	7.32	0.06	84.81	<0.10
9	29/12/2022	SEE/AR/	12/2022/	0665	66.08	12.52	6.95	8.65	0.05	79.30	<0.10
	NAA	QS Limits*	•		100	60	80	80	4	+	1
		Units			$\mu g/m^2$	μg/m³	µg/m ¹	µg/m³	mg/m³	µg/m³	μg/m
	1	Method			IS 5182 (Part 23)	Lab SOP NO.: SEE/LD/SOP- AA-04	IS 5182 (Part 02)	IS 5182 (Part 06)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	IS 5182 (Part IV)	IS 518 [Part 2

*NATIONAL AMBIENT AIR STANDARDS (2009)

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling

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: Test methods of analyzed parameters are back side of analysis report.

1)Akash Pattade 2)Dipali Sawant (

Analyzed by

Varsha Pole

Reviewed by

Anahdeep Sawant Authorized Signatory

HEAD OFF, & LAB : Pour No. A-RD; Rusel No. 16, Knain Nager Rosel, M.J.D.C. Wagle Indicated Area, Thorne - 400:504. Material Rest. India. ₹) (01-22) 2583 3371 / 2583 3322 / 2583 3323 / 2583 3324 € =uai - proj) sidekprovero com / puedekarti@great cren

Dazellod By Minstry of Envisionent, Forest & Climate Change; Govt Of India, S. O. 657 (6)

BRANCH OFF. (310, Dertyo Sinvers, EDC Potto, Penag-403 001, Gos State, Frois 2) (0832) 2437946 (2437946)

E-mul_saddwarenero@cudiffried.com

Amenical manufacturenero City C45com/le/149657C → Page 171 of 377

Respirable Dust Sampler's with Gaseous Sampling

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	RDS- APM 460 (SR NO. 1901-DTJ-2014)	LES-CCL/FF/MF/SC/1718	13/07/2022	12/07/2023

UV Spectrophotometer

Sr No. Equipment Name		Calibration		
01	uv	In House Calibration		

Fine Particulate Sampler (SR NO. 977-DTI-2020)

Sr No.	Equipment Name	Certificate No.	Calibrated on	Calibration due date
01	FPS - APM 550 MINI	-	23/09/2022	22/09/2023

Sr No.	Instrument Type	Calibrated on	Calibration due date	
01	CO Analyzer (SR No. 01 DT L14)	18/11/2022	17/11/2023	



8-306007, Plot No. 61, Patril Estate. Tinis Magos, Vision, Alto, Old Seine Hood, Bardoz, Porvone, Paray-Gos-403 101. Gos Siele, India (Č. 10032) 2411322 / 2411323 ◆ E-mail: startatigoo@mutiPauxi soon

Lab according by MaEF & CC Valid up to 03 11 2023 * Certified by ISO 9001 2015 & ISO 45001 : 2018

SOUCHE

	AIR QUALITY	MONITORING REP	ORT		
Report No.	SEE/AR/12/2022/0358	SEE/AR/12/2022/0358 Date of Issue		21/12/202	22
Name of Client	M/s. Megawide Construction C/o GMR Goa international				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative		Environmen	tal condition of Lab	
Date of Sampling	15/12/2022	Temperature(°C)	28.0	Humidity (%)	66
Analysis Started On	17/12/2022	Analysis Complete	ed On	21/12/2022	

Location of ambient air station	Mopa Boundary (Goa State)
Instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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: Calibration details of the equipments used in monitoring and / or analysis is back side of analysis report.

Adifya Naik Analyzed by

Varsha Pole Reviewed by

Anandeep Sawant **Authorized Signatory**

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	101-DTD-2014	Et/FF/3523	18/02/2022	17/02/2023



B-305c207, Plot No. 61, Potal Estate, Hely Magne, Vision, Alto, Cirl Busin Road, Bardez, Porycom, Passay-Goa 403-101. Gos Slate, India. (C. (0832) 2411322 / 2411323 * E-mail: stratstigme@red@mist.com

SPACIONINI SHALUE.

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	AIR QUALITY	Y MONITORING REP	ORT		
Report No.	SEE/AR/12/2022/0359	Date of Issue		21/12/2022	
Name of Client	M/s. Megawide Construction C/o GMR Goa internationa				
Address of Client	Mopa, Goa				
Sample Collected By	SEEPL Representative		Environmen	ital condition of Lab	
Date of Sampling	15/12/2022	Temperature(°C)	28.0	Humidity (%)	66
Analysis Started On	17/12/2022	Analysis Complete	d On	21/12/2022	

Location of ambient air station	HSD Bunk (Inside Mopa Airport Premises)
Instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Unit	Method
01.	Total VOC	<1.0	ppm	Method 18

Note: Test results related only to the sample tested.

: Test results relate only to the condition prevailing at the time of sampling.

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Aditya Naik Analyzed by

Varsha Pole Reviewed by

Anandeep Sawant Authorized Signatory

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	24-DTD-2016	EI/FF/3524	18/02/2022	17/02/2023



B-306/307, Ptol No. B1, Palet Eustre, Row Magos, Venero, Alto, Ctd Breim Rond, Barcinz, Porvenim Paneji-Gost-603 101 Sos State: Setta (C.: (0032) 2411322 / 2411323 * E-mail: shelatigua@eal@mail.com

SPREMARE. SBNE IN

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	AIR QUALITY	MONITORING REP	ORT		
Report No.	SEE/AR/12/2022/0360	Date of	Date of Issue		22
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa international Airport Limited			
Address of Client	Mopa, Goa	Mopa, Goa			
Sample Collected By	SEEPL Representative		Environmen	ital condition of Lab	e e
Date of Sampling	15/12/2022	Temperature(°C)	28.0	Humidity (%)	66
Analysis Started On	17/12/2022	Analysis Complete	ed On	21/12/2022	

Location of ambient air station	Shemecheadvan Boundary (Goa State)
Instruments Used	Organic Vapour Sampler

Chemical Testing - Atmospheric Pollution

Sr. No.	Parameters	Result	Unit	Method	
01.	Total VOC	<1.0	ppm	Method 18	

Note: Test results related only to the sample tested,

: Test results relate only to the condition prevailing at the time of sampling.

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Callbration details of Equipment used for Sampling & Analysis

Organic Vapour Sampler

Sr No.	Equipment Name	Sr. No.	Certificate No.	Calibrated on	Calibration due date
01	OVS Sampler	101-DTD-2014	EI/FF/3523	18/02/2022	17/02/2023



B-306/307, Piot No. 61, Pasal Estato, Reve Magaio, Verem, Alto, Old Bettim Rosel, Bardez, Personan, Persaj-Goo-403 101. Goa Sprin, India. (E): (0832) 2411322 / 2411323 • E-mail: startsbyon/[predsProid-com SPIVE LIPTOR

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	ANALYSIS REPO	ORT FOR	WATER SAMPLE			
Report No.	SEE/12/2022/192		Issue Date	14/12/2022		
Name of Client	M/s. Megawide Construction C/c GMR Goa International					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 08/12/2022	Emilia	Environmental Condition of Lab		Humidity %	
	As per dated Vol12/2022	CIVIONNENIA CONGIDITOR LAD		28.1	68	
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.		SEEPL/QSP-10		
Sampling point	STP (KMV)		U.—			
Sample details	Inlet Water		Date of collection	08/12/2022		
Sample Collected by	SEEPL Representative		Sample Received On	08/12/2022	08/12/2022	
Analysis Started On	08/12/2022		Analysis Completed On	14/12/2022		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml +	1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method	
1.	pH	6.84	-	APHA(23*Edition) 4500 H+-B	
2,	Chemical Oxygen Demand (COD)	540.00	mg/lit	APHA(23°€dition) 5220-B	
3,	Biochemical Oxygen Demand (27°C 3 day)(BOD)	149.94	mg/lit	it IS 3025 (Part 44)	
4.	Total Suspended Solids (TSS)	121.00	mg/lit	APHA(23 rd Edition) 2540-D	
5.	Oil & Grease (O & G)	6.60	mg/lit	APHA(23 rd Edition) 5520-O &G	

Note: Test results related only to the sample tested.

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Varsha Pole Reviewed By Anaptheep Sawant Authorized Signatory

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BRANCH OFF. 310. Dempo Towers, EDC Patio, Panaji-403 501. Gos Stale, India V. (6832) 2437446 / 2437164 Page 179 of 377
E-mail | Redsharmorus@redsfinasi.com * Websile: Awar and the reverse CIN - U45209441888PTC-110378

Sr. No.				Calibration Details		
	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration D	
01.	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023	
02.	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023	
03,	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023	
04.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	C9/06/2023	



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	ANALYSIS REPO	ORTFOR	WATER SAMPLE			
Report No.	SEE/12/2022/193		Issue Date	14/12/20	22	
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited				
Address of Client	Mopa, Goa					
Order / Reference	As per dated 08/12/2022	Environmental Condition of Lab		Temp ⁰ C	Humidity %	
	Tropal dolog sinticizade			28.1	68	
Sampling Plan	SEEPL/LD/FMT- 54	Samplin	g Procedure No.	SEEPL/QSP-10		
Sampling point	STP (KMV)					
Sample details	Outlet Water		Date of collection	08/12/2022		
Sample Collected by	SEEPL Representative		Sample Received On	08/12/2022		
Analysis Started On	08/12/2022		Analysis Completed On	14/12/2022		
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml	+ 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
1.	pH	6.93	(4)	5.5 - 9.0	APHA(23 ^{rt} Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	40.00	rng/lit	50.00	APHA(23"Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	7.50	mg/lit	10.00	IS 3025 (Part 44)
4,	Total Suspended Solids (TSS)	17.00	mg/lit	20.00	APHA(23*Edition) 2540-D
5.	Oil & Grease (O & G)	2.60	mg/lit	10.00	APHA(234Edition) 5520-0 &G
6.	Ammonia	3.36	mg/lit.	5.00	APHA(23rdEdition) 4500 NH38 C
7.	Total Nitrogen (as N)	7.00	mg/lit	10.00	APHA(23rdEdition) 4500 N-B

Microbiological Parameters

8,	Fecal coliforms at 44.5°C for 24 hrs.	31	MPN Index/100ml	100	APHA (23º/Edition) 9221-E
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Note: Test results related only to the sample tested.

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1. Asmita Sawant. 3

2. Anisha Parab (-) LIDUALD

Analyzed By

Varsha Pole

Reviewed By

Anadeep Sawant Authorized Signatory

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Gazethed By Ministry of Environment, Policet & Climate Change: Goyt Of Index, S. D. 657 E)

BRANCH OFF. 1 310, Dempo fowers, EDC Pano, Panay-403 001, Gost State, India (2) (URS2) 2437048 / 2437164 Page 181 of 377 E-mail | aniestment/suggradifinal.com * Website / www.sadeturescom.com * CIN - U45209MH 1998PTC-116378

2.4		National Indiana		Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023	
02.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023	
03.	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023	
04.	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023	
05.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
06.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
07.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/12/2022/194		Issue Date	14/12/20	22
Name of Client	M/s. Megawide Construction C/o GMR Goa International				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 08/12/2022	Emileo	Environmental Condition of Lab		Humidity %
	As per dated 00/12/2022	Envisor			68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10	
Sampling point	STP (150 KLD)				
Sample details	Inlet Water		Date of collection	08/12/2022	
Sample Collected by	SEEPL Representative		Sample Received On 08/12/		2
Analysis Started On	08/12/2022		Analysis Completed On	14/12/2022	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	Method
1.	pH	6.86		APHA(23⁴Edition) 4500 H+B
2.	Chemical Oxygen Demand (COD)	712.00	mg/lit	APHA(23 rd Edition) 5220-B
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	218.16	mg/lit	IS 3025 (Part 44)
4,	Total Suspended Solids (TSS)	128.00	mg/lit	APHA(23rdEdition) 2540-D
5,	Oil & Grease (O & G)	14.60	mg/lit	APHA(23rdEdition) 5520-D &G

Note: Test results related only to the sample tested.

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Varsha Pole Reviewed By Aperiosep Sawant Authorized Signatory

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Gazetted By Minutey of Environment, Forest & Climate Change, Goot Of India S. O. 867 (E).

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				Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023
02.	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023
03.	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023
04.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023



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	ANALYSIS REPO	ORT FOR	WATER SAMPLE		
Report No.	SEE/12/2022/195		Issue Date	14/12/20	22
Name of Client	M/s. Megawide Constructio C/o GMR Goa Internationa				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 08/12/2022	Course	Environmental Condition of Lab		Humidity %
	As per dated dol/12/2022	Chyliothidiad Solidillor of Edu		28.1	68
Sampling Plan	SEEPL/LD/FMT- 54	Sampling Procedure No.		SEEPL/QSP-10	
Sampling point	STP(150 KLD)				
Sample details	Outlet Water		Date of collection	08/12/2022	
Sample Collected by	SEEPL Representative		Sample Received On	08/12/2022	
Analysis Started On	08/12/2022		Analysis Completed On	14/12/2022	
Sample Container	Glass Bottle + PVC Can		Sample Quantity	1000 ml + 1000ml	

Chemical Parameters

Sr. No.	Parameters	Results	Unit	*Limits	Method
t.	рН	5.67	(+)	5.5 - 9.0	APHA(23"Edition) 4500 H+-B
2.	Chemical Oxygen Demand (COD)	72.00	mg/lit	250,00	APHA(23 st Edition) 5220-8
3.	Biochemical Oxygen Demand (27°C 3 day)(BOD)	16.20	mg/lit	30.00	IS 3025 (Part 44)
4.	Total Suspended Solids (TSS)	51.00	mg/lit	100.00	APHA(23 rd Edition) 2540-D
5.	Oil & Grease (O & G)	2.80	mg/lit	10.00	APHA(23 rd Edition) 5520-0 &G

Note: Test results related only to the sample tested.

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Varsha Pole Reviewed By

Ananopep Sawant Authorized Signatory

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Gazethed By Ministry of Environment: Ferred & Circuite Change, Gran Of India; II. O. 857 (E).

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				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	Q/062	2022/08/277	13/08/2022	13/08/2023	
02.	COD Digester	Q/019	E2022/04/024	18/04/2022	18/04/2023	
03.	BOD incubator	Q/002	E2022/04/023	18/04/2022	18/04/2023	
04	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023	



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SPACE LUFFER

	ANALYSIS REPOR	RT FOR WATER SAMPLE				
Report No.	SEE/12/2022/201	SEE/12/2022/201 Issue Date				
Name of Client	M/s. Megawide Construction C/o GMR Goa International					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 08/12/2022	Environmental Condition of Lab		°C	Humidity % 68	
Sampling point	L.S.C					
Sample details	Drinking Water	Date of collection		08/12/2022		
Sample Collected by	SEEPL Representative	Sample Received On		08/12/2022		
Analysis Started On	08/12/2022	Analysis Completed On	12/12/2022		2022	
Sample Container	Glass bottle	Sample Quantity		1000	red	

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 st Edition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23"Edition) 9221-G

Note: Test results related only to the sample tested.

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Aperideep Sawant Authorized Signatory

Page 1 of 1

				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 ℃)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPO	RT FOR WATER	RSAMPLE			
Report No.	SEE/12/2022/202	SEE/12/2022/202 Issue			12/12/2022	
Name of Client	M/s. Megawide Construction C/o GMR Goa International					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 08/12/2022	Environmental Condition of Lab		Temp ⁰ C 28.1		Humidity % 68
Sampling point	VNC Colony					
Sample details	Drinking Water	Date o	of collection	08/12/2022		
Sample Collected by	SEEPL Representative	Sampl	Sample Received On		08/12/202	
Analysis Started On	08/12/2022	Analys	sis Completed On	12/12		2022
Sample Container	Glass bottle	Sampl	le Quantity		1000 1	ni

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23rdEdition) 9221-B
2	E.coll at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23rddition) 9221-G

Note: Test results related only to the sample tested.

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Aparticeep Sawant Authorized Signatory

200		200 - V		Calibration Details		
Sr. No.	Equipment Name	Equipment	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 ℃)	Q/004	T2022/08/003	13/08/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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	ANALYSIS REPOR	RT FOR WATER SAMPLE			
Report No.	SEE/12/2022/203	Issue Date		12/12/2	2022
Name of Client	M/s. Megawide Construction Clo GMR Goa International				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 08/12/2022	Environmental Condition of Lab	Temp 28.1	_	Humidity % 68
Sampling point	P.T.B				
Sample details	Drinking Water	Date of collection		08/12/2022	
Sample Collected by	SEEPL Representative	Sample Received On	Sample Received On 08/1		2022
Analysis Started On	08/12/2022	Analysis Completed On	12/12/		2022
Sample Container	Glass bottle	Sample Quantity		1000 n	né

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1,	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23rdEdition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNindex/100ml	Not Specified	APHA(23 dEdition) 9221-G

Note: Test results related only to the sample tested.

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Aganteep Sawani Authorized Signatory

Page 1 of 1

120				Calibration Details		
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date	
01.	Microbiological Incubator (37 °C)	Ø/003	T2022/08/004	13/08/2022	13/08/2023	
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/0B/2022	13/08/2023	
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023	
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023	



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SHIVE LLEGERS SMYELIFE

	ANALYSIS REPO	RT FOR WAT	ER SAMPLE				
Report No.	SEE/12/2022/204	SEE/12/2022/204 Issue Date			12/12/2022		
Name of Client		M/s. Megawide Construction DMCC C/o GMR Goa International Airport Limited					
Address of Client	Mopa, Goa						
Order / Reference	As per dated 08/12/2022	2 Environmental Condition of Lab			emp ® C 28.1	Humidity % 68	
Sampling point	Megawide Labor Colony			20.	107	- 00	
Sample details	Drinking Water	Date	e of collection	08/12/2022		2022	
Sample Collected by	SEEPL Representative	San	nple Received On	08/12/2		2022	
Analysis Started On	08/12/2022	Ana	Analysis Completed On		12/12/	2022	
Sample Container	Glass bottle	Glass bottle Sample Quantity				ni	

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23ºEdition) 9221-B
2.	E.coli at 44.5°C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-G
		A			

Note: Test results related only to the sample tested.

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chopdekar Varsha Pole Reviewed By

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Page 1 of 1

				Calibratio	n Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023
03.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



B-306/307, Plot Nr. 61. Potet Estato, Res Magos, Versen Alto, Old Better Pous), Bardez, Porvorte, Paragi-Gusi-403 101. Gos Sate, India: © (0632) 2411322 / 2411323 • E-sud | startatigos@redffmall.com SAVEURE

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	ANALYSIS REPO	RTFOR	WATER SAMPLE			
Report No.	SEE/12/2022/206		Issue Date		12/12	2022
Name of Client	M/s. Megawide Construction C/o GMR Goa International					
Address of Client	Mopa, Goa					
Order / Reference	As per dated 08/12/2022	Frwire	nmental Condition of Lab		p °C	Humidity %
OTTO TITO OTTO	Tarpoi dutto dell'Escala	LJ (W)	and dollaror of Edu	2	B.1	68
Sampling point.	KMV					
Sample details	Drinking Water		Date of collection		08/12	2022
Sample Collected by	SEEPL Representative		Sample Received On		08/12/	/2022
Analysis Started On	08/12/2022		Analysis Completed On		12/12	2022
Sample Container	Glass bottle		Sample Quantity		1000	ml

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	MPN	Absent	MPNIndex/100ml	Not Specified	APHA(23 rd Edition) 9221-B
2.	E.coli at 44,59C for 24hrs.	Absent	MPNIndex/100ml	Not Specified	APHA(23"Edition) 9221-G

Note: Test results related only to the sample tested.

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Againteep Sawant Authorized Signatory

2				Calibratio	n Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022	13/08/2023
02.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022	13/08/2023
03	Laminar Air Flow	Q/001	2022/08/322	13/08/2022	13/08/2023
04.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



9-306/307; Plot No. 81, Patet Estate, Ress Mague, Venue, Alto, Clat Below Road, Bantoz, Pervenie, Panaj-Gos-463 181. Gen State, India. ② ∴ (0002) 2411022 / 2411023 ◆ E-mail: startatigos@rest/final.com

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SINCULAR SINCULAR

	ANALYSIS REPO	RT FOR W	ATER SAMPLE			
Report No.	SEE/12/2022/205		ssue Date		14/12/	2022
Name of Client	M/s. Megawide Construction C/o GMR Goa International		imited			
Address of Client	Mopa, Goa					
Order / Reference	As per dated 08/12/2022	Covience	nental Condition of Lab	Tem	p ºC	Humidity %
CAGEL / Melerence	As per daled dartzizuzz	CHAROLE	nental Condition of Lab	21	8.1	68
Sampling Plan	SEEPL/LD/FMT- 54	1	Sampling Procedure No.		SEEP	L/QSP-10
Sampling point	Borewell No. 2		101.52.00			
Sample details	Ground Water	1	Date of collection		08/12/	2022
Sample Collected by	SEEPL Representative	1	Sample Received On		08/12/	2022
Analysis Started On	08/12/2022	1	Analysis Completed On		14/12/	2022
Sample Container	Glass bottle + PVC Can		Sample Quantity		1000	ni +4000mi
	The first of the control of the cont		THE PROCESSION OF PARTY		TOTAL STORY	111-2-20-00-01/2/

46.4	4.70		
Chemi	cal T	esti	na

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7,30	9	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.64	NTU	1.00	IS 3025 (Part 10)
3	Taste	Agreeable	- 2	Not Specified	APHA(23º/Edition) 2160 B
4.	Color	<1.00	Hazen unit	Not Specified	APHA(23 ^{re} Edition) 2120 B
5.	Odour	Agreeable	3	Not Specified	APHA(23"Edition) 2150 B
6.	Total Alkalinity	28.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	63.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as CI	14.01	mg/lit	250.00	IS 3025 (Part 32)
9.	Sulphate as SO ₄	<5.00	mg/lit	200.00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23th Edition) 4500 S7F
11.	Total Hardness as CaCO ₂	30.00	mg/lit	200.00	(S 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mg/lit	0.50	Clause 6 of IS 2025 (Part 39)

1. Anisha Parab

Shreya Harmalkar

Analyzed by

Vihopale Kay

Reviewed By

Star Publication

Aganteep Sawani Authorized Signatory

Page 1 of 3

Report No.	SEE/12/2022/205	Issue Date	14/12/2022
Order / Reference	As per dated 08/12/2022	Sample Received On	08/12/2022
Analysis Started On	08/12/2022	Analysis Completed On	14/12/2022
Name of Client	M/s. Megawide Construction DN C/o GMR Goa International Air		

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26)
15.	Nitrate as NO ₃	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(23ºEdition) 4500 F D
17.	Phenolic compound	<0.02	rng/lit	Not Specified	APHA(23rdEdition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23 Edition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23⁴Edition) 5540 - C
letal	Analysis				
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)
21.	Arsenic as As	<0.01	mg/lit	0.01	IS 3025 (Part 2)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)
23.	Calcium as Ca	8.01	mg/lit	Not Specified	APHA(23#Edition) 3500Ca B
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.11	mg/lit	1.00	IS 3025 (Part 2)
26,	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2)
27.	Magnesium as Mg	2.42	mg/lit	Not Specified	APHA(23rdEdition) 3500Mg B
28.	Chromium as Cr	<0.01	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
29.	Mercury as Hg	<0.001	mg/lit	0.001	IS 3025 (Part 2)
30.	Zinc as Zn	0.05	mg/lit	5.00	IS 3025 (Part 2)
31.	Sodium as Na	2.16	mg/lit	Not Specified	APHA(23 rd Edition) 3120 B
32.	Potassium as K	1.22	mg/lit	Not Specified	APHA(23 st Erlition) 3120 B
33.	Copper as Cu	<0.01	mg/lit	0.05	IS 3025 (Part 2)

1. Anisha Parab Arrayau 2. Shreya Harmalkar Analyzed by

Varisha Pole Reviews Reviewed By

SHO ENTIN

Agenteep Sewani Authorized Signatory

Report No.	SEE/12/2022/205	Issue Date	14/12/2022
Order / Reference	As per dated 08/12/2022	Sample Received On	08/12/2022
Analysis Started On	08/12/2022	Analysis Completed On	14/12/2022
Name of Client	M/s. Megawide Construction DI C/o GMR Goa International Air		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34,	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23*Edition) 9221-B
35.	E.coli at 44.5°C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23*Edition) 9221-G

Note: Test results related only to the sample tested.

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		-		Calibration Details	
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	T2022/04/020	18/04/2022	18/04/2023
02.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023
03.	U V Spectrophotometer	Q/0166		Inhouse Calibration	
04.	ICP- OES	Q/162	8	Inhouse Calibration	
05.	Microbiological Incubator (37 %)	Q/003	T2022/08/004	13/08/2022 13/08/	
06.	Microbiological incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022 13/08/2	
07.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022 13/08/202	
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



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SHARL LEHRERY SHAFTER

	ANALYSIS REPO	RT FOR WATER SAMPLE			
Report No.	Issue Date		14/12/2022		
Name of Client	M/s. Megawide Construction C/o GMR Goa International				
Address of Client	Mopa, Goa				
Order / Reference	As per dated 08/12/2022	Engles manufal Condition of Lab	Tem	p ºC	Humidity %
Order / Reservince	As per dated Uo/12/2022	Environmental Condition of Lab	2	8.1	68
Sampling Plan	SEEPL/LD/FMT-54	Sampling Procedure No.		SEEPL/QSP-10	
Sampling point	WTP - Treated	7			
Sample details	UG tank Water	Date of collection		08/12/2022	
Sample Collected by	SEEPL Representative	Sample Received On		08/12/2022	
Analysis Started On	08/12/2022	Analysis Completed On	14/12/202		/2022
Sample Container	Glass bottle + PVC Can	Sample Quantity		1000 mi + 4000ml	

Chemical Testing

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1.	pH	7.24	2	6.5 - 8.5	IS 3025 (Part 11)
2.	Turbidity	0.81	NTU	1.00	IS 3025 (Part 10)
3.	Taste	Agreeable	- 8	Not Specified	APHA(23rdition) 2160 B
4,	Color	<1.00	Hazen unit	Not Specified	APHA(23=Edition) 2120 B
5.	Odour	Agreeable		Not Specified	APHA(23rdEdition) 2150 B
6.	Total Alkalinity	34.00	mg/lit	200.00	IS 3025 (Part 23)
7.	Total Dissolved Solids	75.00	mg/lit	500.00	IS 3025 (Part 16)
8.	Chlorides as CI	16.51	mg/lit	250.00	IS 3025 (Part 32)
9,	Sulphate as SO ₄	<5.00	mg/lit	200,00	IS 3025 (Part 24)
10.	Sulfides	<2.00	mg/lit	Not Specified	APHA(23*Edition) 4500 S2F
11.	Total Hardness as CaCO ₃	36.00	mg/lit.	200.00	IS 3025 (Part 21)
12.	Ammonia	<0.50	mg/lit	0.50	IS- 3025 (Part 34)
13.	Mineral oil	<0.1	mgAit	0.50	Clause 6 of IS 3025 (Part 39)
					Carlos Esperantes

1. Anisha Parab Aubonah

2. Shreya Harmalkar Analyzed by

chopdekay Varsha Pole Reviewed By

Ananteep Sawant Authorized Signatory

Page 1 of 3

Report No.	SEE/12/2022/199	Issue Date	14/12/2022
Order / Reference	As per dated 08/12/2022	Sample Received On	08/12/2022
Analysis Started On	08/12/2022	Analysis Completed On	14/12/2022
Name of Client	M/s. Megawide Construction DN C/o GMR Goa International Airp		

-	mical Testing			IS desirable	
Sr. No.	Parameter	Result	Unit	Limit (As per IS 10500)	Method
14.	Residual free chlorine	<0.20	mg/lit	0.20	IS 3025 (Part 26)
15.	Nitrate as NO ₂	<1.00	mg/lit	45.00	IS 3025 (Part 34)
16.	Fluoride as F	<0.10	mg/lit	Not Specified	APHA(23rdEdition) 4500 F D
17.	Phenolic compound	<0.02	mg/lit	Not Specified	APHA(23 rd Edition) 5530-B,C
18.	Cyanide	<0.01	mg/lit	Not Specified	APHA(23rdEdition) 4500 CN -D
19.	Anionic Detergents	<0.10	mg/lit	Not Specified	APHA(23 rd Edition) 5540 - C
tetal	Analysis			40	
20.	Aluminium as Al	<0.01	mg/lit	0.03	IS 3025 (Part 2)
21.	Arsenic as As	<0.01	mg/lit.	0.01	IS 3025 (Part 2)
22.	Boron as B	<0.01	mg/lit	0.50	IS 3025 (Part 2)
23.	Calcium ás Ca	8.81	mgAit	Not Specified	APHA(23 rd Edition) 3500CaB
24.	Cadmium as Cd	<0.001	mg/lit	0.003	IS 3025 (Part 2)
25.	Iron as Fe	0.07	mg/lit	1.00	IS 3025 (Part 2)
26.	Lead as Pb	<0.01	mg/lit	0.01	IS 3025 (Part 2)
27.	Magnesium as Mg	3,40	mg/lit	Not Specified	APHA(23 rd Edition) 3500Mg B

Chromium as Cr

Mercury as Hg

Sodium as Na

Potassium as K

Copper as Cu

Zinc as Zn

28.

29,

30.

31.

32.

33.

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mg/lit

mg/lit

mg/lit

mg/lit

mg/lit

mg/lit

< 0.01

< 0.001

0.04

1.66

0.57

< 0.01

Not Specified

0.001

5.00

Not Specified

Not Specified

0.05

Agenbeep Sawant **Authorized Signatory**

APHA(23dEdition) 3120 B

APHA(23ºEdition) 3120 B

APHA(23dEdition) 3120 B

IS 3025 (Part 2)

IS 3025 (Part 2)

IS 3025 (Part 2)

Report No.	SEE/12/2022/199	Issue Date	14/12/2022
Order / Reference	As per dated 08/12/2022	Sample Received On	08/12/2022
Analysis Started On	08/12/2022	Analysis Completed On	14/12/2022
Name of Client	M/s. Megawide Construction Di C/o GMR Goa International Air		

Microbiological Parameters

Sr. No.	Parameter	Result	Unit	IS desirable Limit (As per IS 10500)	Method
34,	Total coliforms at 37°C for 48 hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23 ⁴ Edition) 9221-B
35.	E.ooli at 44.54C for 24hrs.	Absent	MPN Index/100ml	Not Specified	APHA(23ªEdition) 9221-G

Note: Test results related only to the sample tested.

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Shreya Harmalkar
 Analyzed by

Varsha Pole

Reviewed By

Anapagep Sawant Authorized Signatory

0.		-		Calibratic	on Details
Sr. No.	Equipment Name	Equipment Id	Certificate No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	Q/168	T2022/04/020	18/04/2022	18/04/2023
02.	Hot Air Oven	Q/039	T2022/06/014	09/06/2022	09/06/2023
03.	U V Spectrophatometer	Q/0166	14	Inhouse Calibration	
04.	ICP- OES	Q/162	s	Inhouse Calibration	
05.	Microbiological Incubator (37 °C)	Q/003	T2022/08/004	13/08/2022 13/08/	
06.	Microbiological Incubator (44.5 °C)	Q/004	T2022/08/003	13/08/2022 13/08/2	
07.	Laminar Air Flow	Q/001	2022/08/322	13/08/2022 13/08/202	
08.	Autoclave	Q/010	M2022/04/031	18/04/2022	18/04/2023



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

		AMBIENT AIR QUALITY	MONITORING REPORT						
Report Date	04/0	04/02/2023							
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	GLE	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Jan	January 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Mopa Boundry - Goa St	ate (G-A1)						
Average Ambient Temperat	ture (°C)	31.5	Average Humidity (%)	62					
Average Wind Speed (km/hr)		12.4	Average Wind direction (Deg)	221					
Latitude		N 15°45'51.1"	Longitude	E 73°56'32.4"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr. No.	Date of		PARAMETERS							
	Sampling	Report No.	SPM	PM ₁₀	PM _{2.5}	SOz	NOx	CO	Lead	VOC
1	02/01/2023	GA/23/0031A	98.20	70.31	15.28	< 6.0	< 9.0	0.9	0.07	< 1.0
2	05/01/2023	GA/23/0038A	102.40	65.95	19.89	< 6.0	< 9.0	0.84	0.04	< 1.0
3	09/01/2023	GA/23/0053A	99.60	59.78	20.65	< 6.0	< 9.0	1.08	0.05	< 1.0
4	12/01/2023	GA/23/0064A	96.10	64.56	17.72	< 6.0	< 9.0	0.79	0.03	< 1.0
5	16/01/2023	GA/23/0077	95.40	73.94	14.64	< 6.0	< 9.0	1.33	0.06	< 1.0
6	19/01/2023	GA/23/0090	97.30	64.71	19.67	< 6.0	< 9.0	0.71	0.01	< 1.0
7	23/01/2023	GA/23/0118	88.10	63.35	12.77	< 6.0	< 9.0	1.3	0.05	< 1.0
8	27/01/2023	GA/23/0140	81.70	65.05	14.43	< 6.0	< 9.0	0.84	0.07	< 1.0
J	30/01/2023	GA/23/0157	72.50	60.74	11.23	< 6.0	< 9.0	0,39	0.06	< 1.0
	NAAQS LI	MITS *		100	60	80	80	2	1	-
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	ppm
METHOD		15 5182 (Part 4)	IS 5102 (Part XXIII) 2006	USEPA FEM, 40 CFR Pwt 50, Appendix- L, 2014-2016	(Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method	

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

t. The results relate only to the samples 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.

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 r or analysis is back side of analysis report.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



CHECKED BY

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



GADARK LAB PVT. LTD.

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 83213 12367

TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	04/0	04/02/2023							
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	GLE	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Jan	January 2023							
		AMBIENT AIR	LOCATION						
ation of Ambient Air Sta	tion	Shemecheadvan Goa 5	State (G-A2)						
Average Ambient Temperat	ture (°C)	31.8	Average Humidity (%)	67					
Average Wind Speed (km/hr)		18,2	Average Wind direction (Deg)	235					
Latitude		N 15°42'06.1"	Longitude	E 73°49'21.5"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr. No.	Date of Sampling		PARAMETERS								
		Report No.	SPM	PM ₁₀	PM _{2.5}	SO ₂	NOx	co	Lead	VOC	
1	02/01/2023	GA/23/0030A	115.30	65.9	13.98	< 6.0	< 9.0	0.95	0.04	< 1.0	
2	05/01/2023	GA/23/0037A	122.10	69.76	15.87	< 6.0	< 9.0	1.05	0.02	< 1.0	
3	09/01/2023	GA/23/0053	147.40	76.81	16.59	< 6.0	< 9.0	1.17	0.03	< 1.0	
4	12/01/2023	GA/23/0064	115.10	70.22	17.92	< 6.0	< 9.0	0.85	0.02	< 1.0	
5	16/01/2023	GA/23/0076	88.30	52,35	11.35	< 6.0	< 9.0	0.47	0.04	< 1.0	
6	19/01/2023	GA/23/0089	105,60	58.66	29.98	< 6.0	< 9.0	0.62	0.03	< 1.0	
7	23/01/2023	GA/23/0117	86.20	60.67	11,27	< 6.0	< 9.0	0.61	0.04	< 1.0	
1	27/01/2023	GA/23/D139	77.30	55.26	10.23	< 6.0	< 9.0	1.05	0.06	< 1.0	
9	30/01/2023	GA/23/0156	69.10	53.69	14.51	< 6.0	< 9.0	0.38	0.03	< 1.0	
	NAAQS LI	MITS*	**	100	60	80	80	2	1	**	
	UNIT	s	µg/m³	hā/w ₃	µg/m³	µg/m³	µg/m²	mg/m ³	µg/m³	ppm	
METHOD		IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM. 40 CFR Part 50, Appendix L. 2014-2016	IS 5182 (Part 9) 2001	IS 5182 (Part VI) 2006	(Pert X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18		

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

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

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

5 Customer complaint register is available at laboratory

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



GADARK LAB PVT. LTD.

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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	04/0	04/02/2023							
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	GLF	PL/QF/7.3/06	Page No:	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Jan	uary 2023							
		AMBIENT AIR	LOCATION						
ation of Ambient Air Star	tion	Nagzar - Goa State (G-	A3)						
Average Ambient Temperat	ure (°C)	31,6	Average Humidity (%)	58					
Average Wind Speed (km/h	r)	15.1	Average Wind direction (Deg)	218					
Latitude		N 15°45'37.3"	Longitude	E 73°53'14.22°					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of		PARAMETERS								
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2,8}	SO ₂	NOx	co	Lead	voc	
1	02/01/2023	GA/23/0023	247.10	74.14	25.74	< 6.0	< 9.0	0.69	0.05	< 1.0	
2	05/01/2023	GA/23/0030	180.40	74.92	22.41	< 6.0	< 9.0	0.63	0.01	< 1.0	
3	09/01/2023	GA/23/0046	190.30	73.80	22.95	< 6.0	< 9.0	1.24	0.04	< 1.0	
4	12/01/2023	GA/23/0057	164.70	71.68	20.29	< 6.0	< 9.0	1.22	0.02	< 1.0	
5	16/01/2023	GA/23/0069	133.00	72.82	17.84	< 6.0	< 9.0	0.97	0.03	< 1.0	
6	19/01/2023	GA/23/0082	127.50	70.49	21.79	< 6.0	< 9.0	1.12	0.04	< 1.0	
7	23/01/2023	GA/23/0110	137.90	73.82	16.63	< 6.0	< 9.0	0.95	0.03	< 1.0	
8	27/01/2023	GA/23/0132	146.70	75.32	19.63	< 6.0	< 9.0	0.78	0.06	< 1.0	
9	30/01/2023	GA/23/0149	136.8	76.86	16.84	< 6.0	< 9.0	1.1	0.03	< 1.0	
	NAAQS LIN	MITS *	-	100	60	80	80	2	1	**	
	UNITS		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m²	µg/m³	ppm	
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50. Appendix L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18	

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



GADARK LAB PVT. LTD.

INDUSTRIAL ANALYSTS & CONSULTANTS

LAB - H-54, Additional M.J.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

		AMBIENT AIR QUALITY	MONITORING REPORT							
Report Date	04/0	04/02/2023								
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	GLE	PL/QF/7.3/06	Page No.	1 of 1						
Sample Collected By	GLE	L Representative								
Month of Sampling	Jan	uary 2023								
		AMBIENT AIR	LOCATION							
Location of Ambient Air Sta	tion	Purva Casarvarnem - G	oa State (G-A4)							
Average Ambient Temperat	ture (°C)	31.8	Average Humidity (%)	68						
Average Wind Speed (km/h	r)	13	Average Wind direction (Deg)	232						
Latitude		N 15°41'41,9"	Longitude	E 73°50'16.6"						
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)						

Sr.	Date of Sampling	The same the	PARAMETERS								
No.		Report No.	SPM	PM ₁₀	PM _{2.5}	SOz	NOx	CO	Lead	VOC	
1	02/01/2023	GA/23/0024	107.40	65.47	18.01	< 6.0	< 9.0	0.57	0.03	< 1.0	
2	05/01/2023	GA/23/0031	112.20	64.5	15.59	< 6.0	< 9.0	1,21	0.05	< 1.0	
3	09/01/2023	GA/23/0047	178.20	67.22	14.26	< 6.0	< 9.0	1.03	0.03	< 1.0	
4	12/01/2023	GA/23/0058	100.70	65.06	11.27	< 6.0	< 9.0	1	0.01	< 1.0	
5	16/01/2023	GA/23/0070	101.10	65.61	19.21	< 6.0	< 9.0	1.04	0.03	< 1.0	
6	19/01/2023	GA/23/0083	121.30	68.5	19.92	< 6.0	< 9.0	0.44	0.02	< 1.0	
7	23/01/2023	GA/23/0111	108.50	75.23	13.31	< 6.0	< 9.0	0.79	0.05	< 1.0	
8	27/01/2023	GA/23/0133	119.20	66.74	17.42	< 6.0	< 9.0	1.07	0.04	< 1.0	
9	30/01/2023	GA/23/0150	109.70	62.72	14.35	< 6.0	< 9.0	0.55	80.0	< 1.0	
	NAAQS LI	MITS *	- 244	100	60	80	80	2	1	-	
	UNITS		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m ³	µg/m²	ppm	
METHOD		IS 5182 (Part 4)	(S 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1998	IS 5182 (Part XXII) 2004	EPA Method 18		

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	04/0	04/02/2023							
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	GLF	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Jan	uary 2023							
	*******	AMBIENT AIR	LOCATION						
ation of Ambient Air Sta	tion	Khajne Amere Porscode	em - Goa State (G-A5)						
Average Ambient Temperat	ture (°C)	31,5	Average Humidity (%)	68					
Average Wind Speed (km/h	r)	9.2	Average Wind direction (Deg)	240					
Latitude		N 15°40'38.0"	Longitude	E 73°46'21.2"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of Sampling	Devent No.	PARAMETERS								
No.		Report No.	SPM	PM ₁₀	PM _{2.5}	SOz	NOx	co	Lead	VOC	
1	02/01/2023	GA/23/0025	93,50	60,21	10.23	< 8.0	< 9.0	0.67	0.03	< 1.0	
2	05/01/2023	GA/23/0032	100.10	64.77	12.27	< 6.0	< 9.0	0.64	0.06	< 1.0	
3	09/01/2023	GA/23/0048	114.10	57.81	11.56	< 6.0	< 9.0	1.57	0.05	< 1.0	
4	12/01/2023	GA/23/0059	88.80	59.56	12.14	< 6.0	< 9.0	0.82	0.02	< 1.0	
5	16/01/2023	GA/23/0071	55.50	49.24	11.44	< 6.0	< 9.0	1.26	0.04	< 1.0	
6	19/01/2023	GA/23/0084	81.40	56,83	14.6	< 6.0	< 9.0	0.87	0.03	< 1.0	
7	23/01/2023	GA/23/0112	60.40	50.42	9.15	< 6.0	< 9.0	1.04	0.06	< 1.0	
3	27/01/2023	GA/23/0134	54.20	44.48	10.23	< 6.0	< 9.0	1.28	0.06	< 1.0	
9	30/01/2023	GA/23/0151	43.60	52.75	11.73	< 6.0	< 9.0	0.6	0.03	< 1.0	
	NAAQS LI	MITS *		100	60	80	80	2	1	-	
UNITS		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m ²	µg/m²	ppm		
METHOD		(Fari 4)	(S 5182 (Part XXIII) 2008	USEPA FEM, 40 CFR Part 50, Appendix- L 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2008	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2054	EPA Method 18		

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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TEST REPORT

	2.715	AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date 04/02/2023									
Name of Client M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED									
Address of Client	Iress of Client ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.								
Sampling Plan	ipling Plan GLPL/QF/7.3/06 Page No. 1 of 1								
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Jan	uary 2023							
		AMBIENT AIR	LOCATION						
Lation of Ambient Air Sta	tion	Rajvil Wada Torxem - 0	Goa State (G-A6)						
Average Ambient Tempera	ture (°C)	31.9	Average Humidity (%)	67					
Average Wind Speed (km/h	ır)	5.2	Average Wind direction (Deg)	220					
Latitude		N 15°48'40.0°	Longitude	E 73°52'50.2"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	D				PARA	AMETERS			
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2,8}	SO ₂	NOx	co	Lead	voc
1	02/01/2023	GA/23/0028	97.00	55.59	11.39	< 6.0	< 9.0	0.81	0.02	< 1.0
2	05/01/2023	GA/23/0035	106.30	59.19	10.77	< 6.0	< 9.0	0.65	0.04	< 1.0
3	09/01/2023	GA/23/0051	146.00	57.83	14.1	< 8.0	< 9.0	1.55	0.04	< 1.0
4	12/01/2023	GA/23/0062	94.40	54.27	11.6	< 6.0	< 9.0	0.26	0.03	< 1.0
5	16/01/2023	GA/23/0074	80.60	66.06	12.35	< 6.0	< 9.0	1.2	0.05	< 1.0
6	19/01/2023	GA/23/0087	89.20	63.93	12.77	< 6.0	< 9.0	0.95	0.05	< 1.0
7	23/01/2023	GA/23/0115	85.00	66,5	16.51	< 6.0	< 9.0	0.47	0.06	< 1.0
1	27/01/2023	GA/23/0137	74.30	70.82	12.39	< 6.0	< 9.0	0.41	0.09	< 1.0
9	30/01/2023	GA/23/0154	63,00	68.54	15.22	< 6.0	< 9.0	0,36	0.06	< 1.0
	NAAQS LI	MITS *		100	60	80	80	2	1	
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	ppm
	METHOD		IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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TEST REPORT

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

Sr.	Date of	Donat No.				PARA	METERS			
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2.5}	SOz	NOx	co	Lead	VOC
1	02/01/2023	GA/23/0026	99.20	65,09	11.56	< 6.0	< 9.0	0.52	0.02	< 1.0
2	05/01/2023	GA/23/0033	89.60	59,71	12.02	< 6.0	< 9.0	0.47	0.05	< 1.0
3	09/01/2023	GA/23/0049	109.00	64.29	10.19	< 6.0	< 9.0	0.7	0.04	< 1.0
4	12/01/2023	GA/23/0060	97.10	64.34	12.97	< 6.0	< 9.0	0.56	0.01	< 1.0
5	16/01/2023	GA/23/0072	52.40	58.2	9.69	< 6.0	< 9.0	0.54	0.05	< 1.0
6	19/01/2023	GA/23/0085	86.60	61.28	14.22	< 6.0	< 9.0	1.24	0.03	< 1.0
7	23/01/2023	GA/23/0113	69.30	61,42	12.85	< 6.0	< 9.0	0.52	0,06	< 1.0
8	27/01/2023	GA/23/0135	80.50	53.23	15.09	< 6.0	< 9.0	0.83	0.07	< 1.0
à	30/01/2023	GA/23/0152	70.20	59.7	13.72	< 6.0	< 9.0	0.69	0.05	< 1.0
	NAAQS LI	MITS *		100	60	80	80	2	1	.77
	UNIT	S	µg/m³	µg/m²	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	ppm
	METHOD		15 5182 (Part 4)	IS 5182 (Part XXIII) 2906	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2018	IS 5182 (Part II) 2001	(Part VI) 2006	IS 5182 (Part X) 1998	IS 5182 (Part XXII) 2004	EPA Method 18

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

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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

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TEST REPORT

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

Sr.	Date of	Daniel Ma				PARA	AMETERS			
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2.1}	SO ₂	NOx	co	Lead	VOC
1	02/01/2023	GA/23/0029	87.50	56.67	12.02	< 6.0	< 9.0	1.07	0.01	< 1.0
2	05/01/2023	GA/23/0036	92.60	63,95	13.1	< 6.0	< 9.0	0.7	0.02	< 1.0
3	09/01/2023	GA/23/0052	120.00	45.21	15.97	< 6.0	< 9.0	1.83	0.01	< 1.0
4	12/01/2023	GA/23/0063	80.40	53.83	10.15	< 6.0	< 9.0	1.19	0.01	< 1.0
5	16/01/2023	GA/23/0075	60.10	60.42	10.77	< 6.0	< 9.0	0.79	0.03	< 1.0
6	19/01/2023	GA/23/0088	72.50	57.2	21.37	< 6.0	< 9.0	0.68	0.04	< 1.0
7	23/01/2023	GA/23/0116	60.70	71,77	13.68	< 6.0	< 9.0	0.34	0.04	< 1.0
3	27/01/2023	GA/23/0138	88.80	65.21	18.96	< 6.0	< 9.0	0.55	0.07	< 1.0
9	30/01/2023	GA/23/0155	79.40	59.03	13.97	< 6.0	< 9.0	1.05	0.05	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	1	-
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	µg/m³	ppm
	METHOD		15 5182 (Part 4)	IS 5182 (Part XXIII) 2008	USEPA FEM, 40 CFR Part 50, Appendix- 1, 2014-2018	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1989	IS 5182 (Part XXII) 2004	EPA Method 18

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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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 N	MONITORING REPORT						
Report Date 04/02/2023									
Name of Client	e of Client M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED								
Address of Client	dress of Client ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAD NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.								
Sampling Plan	impling Plan GLPL/QF/7.3/06 Page No. 1 of								
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Jan	uary 2023							
74		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Netarde - Maharashtra	State (M-A3)						
Average Ambient Temperat	ure (°C)	30.6	Average Humidity (%)	4					
Average Wind Speed (km/h	r)	4.7	Average Wind direction (Deg)	214					
Latitude N 15°46′11.7° Longitude E 73°53									
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	December 1				PAR	AMETERS			
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2.8}	SO ₂	NOx	co	Lead	VOC
1	02/01/2023	GA/23/0027	50.60	48.93	12.77	< 6.0	< 9.0	0.49	0.03	< 1.0
2	05/01/2023	GA/23/0034	55.20	49.32	12.18	< 6.0	< 9.0	0.53	0.01	< 1.0
3	09/01/2023	GA/23/0050	99.80	43.17	11.68	< 6.0	< 9.0	0.78	0.01	< 1.0
4	12/01/2023	GA/23/0061	66.90	46.4	14.06	< 6.0	< 9.0	0.51	0.01	< 1.0
5	16/01/2023	GA/23/0073	31.90	45.56	8.9	< 6,0	< 9.0	0.57	0.02	< 1.0
6	19/01/2023	GA/23/0086	43.50	62.71	12.81	< 6.0	< 9.0	0.75	0.05	< 1.0
7	23/01/2023	GA/23/0114	26.70	42.59	9.07	< 6.0	< 9.0	0.92	0.03	< 1.0
d	27/01/2023	GA/23/0136	35.00	44.74	12.56	< 6.0	< 9.0	1.04	0.04	< 1.0
9	30/01/2023	GA/23/0153	31.10	49.26	10.69	< 6.0	< 9.0	0.56	0.05	< 1.0
	NAAQS LI	MITS *	- 00	100	60	80	80	2	1) (40)
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m ³	µg/m³	ppm
	METHOD		IS 5182 (Part 4)	IS 5182 (Part XXIII) 2008	USEPA FEM, 40 CFR Part 50, Appendo- L, 2014-2018	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS \$182 (Part X) 1999	(5 5182 (Part XXII) 2004	EPA Method

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY (SANTOSH V. ZULPE)



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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TEST REPORT

	NOISE LEV	EL MONITORING REPORT	
Date of Issue	04/02/2023		
Name of Client	M/s. GMR GOA INTER	NATIONAL AIRPORT LIMITED	
Address of Client		OCK, MOPA INTERNATIONAL AIRPO UKA PERNEM, MOPA, NORTH GOA	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	GLPL/SOP/AA/17
Sample Collected By	GLPL Representative	***************************************	The second second second

AMBIENT AIR NOISE POLLUTION MONITORING

Sr. No.	Date of	Report No. Zone Sampling Location			Time No In dB(A)	olse	Nig	ht Time h			
PEO.	Sampling in in contract Sampling Column	Long	Lou	Les	Lone	Long	Ling				
1	20/01/2023	GA/23/0092	G-N1	-1	Mopa Boundary	31.7	90.6	57.0	30.1	89.6	53.4
2	27/01/2023	GA/23/0142	G-N2	1	Shemecheadvan	35	89.4	66.8	33.4	74.9	53.3
3	22/01/2023	GA/23/00108	G-N3	C	Negzar	47.4	83.1	61.7	38.7	77.4	53.5
4	20/01/2023	GA/23/0091	G-N4	R	Purva Casarvamem	36.2	82.2	50.2	32.9	69.0	42.6
5	23/01/2023	GA/23/0119	G-N5	R	Chandel	30.3	77.8	50.5	30.6	72.1	41.3
6	22/01/2023	GA/23/0109	G-N6	R	Khajne Amere Porscodem	31.6	67.3	51.6	30.9	106	40.7
7	27/01/2023	GA/23/0141	G-N7	R	Warkhand	30.8	78.7	53.0	32.6	72.7	41.9
8	24/01/2023	GA/23/0121	G-N8	·C	Rajvii Wada Torxem	35	97.6	59.7	30.5	71.8	45.5
9	30/01/2023	GA/23/0158	G-N9	C	Village Panchayant Tamboxem – Mopa - Ugvern	39.4	82.6	54.7	37.8	70.3	46,0
10	24/01/2023	GA/23/0120	M-N1	R	Satarda	30.2	79.8	52.5	30.1	59.4	39.5
1.1	17/01/2023	GA/23/0078	M-N2	R	Dingane	31.8	88.1	51.9	30.2	58.6	40.5
12	17/01/2023	GA/23/0079	M-N3	R	Netarde	36.8	79.5	52.5	37.0	75.3	41.7

I - Industrial Zone, C - Commercial Zone, R - Residential Zone

1] Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows.

	Aven Code	Cotonomi of Arms	Limits in	dB(A) Leq
Area Code	Category of Area	Day Time	Night Time	
	(A)	Industrial Area (I)	75	70
	(8)	Commercial Area (C)	65	55
1	(C)	Residential Area (R)	55	45
	(D)	Silence Zone (S)	50	40

- Day time to reckoned in between 5:00 am to 10 pm and night time is reckoned in between 10:00 pm to 06:00 am 2]
- *dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. 31 A "decibel" is a unit in which noise is measured.
- "A", in dB(A) Leg, denotes the frequency weighting in the measurement of noise and corresponds to frequency response 4] characteristics of the human ear
- 5] Leg : It is the energy mean of the noise level over a specified period

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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

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	WATER SAMPLE		25/01/	2023	
Report No.	GW/23/0094		Report Date		25/01/	2020	
Client Name & Address	GMR Goa Internation	nal Airport Lin	nited, ational Airport, Dadac 403512	hiwadi l	Road, N	lagzar,	
Chent Name & Address	Administrative Block Taluka Pernem, Mo	 Mona intern 	Shoust Without headen		np °C	Humidity %	
Order / Reference	As Per Dated 20/01/2023	Environme	ntal Condition of Lab	25	5.2 49.0		
		Sampling F	Procedure No.	APHA 1060			
Sampling Plan	GLPL/QF/7,3/06	Gamping	- wasterness				
Sampling Point	WTP RO		Date of Collection		20/01	/2023	
Sampling Details		WTP RO Inlet Water Sample		Sample Received On		20/01/2023	
Sample Collected by	GLPL Representative		Analysis Completed On		The second secon		
Analysis Started On	21/01/2023				4 lit + 1.25 lit		
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		1.00		

Chemical Testing:

Sr.	Parameters	Result Unit Limit (As per IS	IS desirable Limit (As per IS 10500)	Method	
No.	10.			6.5 8.5	APHA 4500 H°
1	pH	7.87	North C	1.00	APHA 2130 B
2	Turbidity	0.2	NTU	Not Specified	APHA 2160 B
3	Taste	Agreeable			APHA 2120 B
4	Colour	< 1.0	Colour Unit	Not Specified	APHA 2150 B
5	Odour	Agreeable		Not Specified	APHA 2320 B
_	Total Alkalinity	22.11	mg/lit	200.00	A STATE OF THE PARTY OF THE PAR
6	The state of the s	58	mg/lit	500.00	APHA 2540 C
7	Total Dissolved Solid	6.04	mg/lit	250.00	APHA 4500 CITB
8	Chlorides as Cl	0.75	mg/lit	200.00	APHA 4500 SO ₄ 2 E
9	Sulphate as SO ₄		mg/lit	Not Specified	APHA 4500 S ² F
10		< 0.001	-	200.00	APHA 2340 C
11	Total Hardness as CaCO ₃		mg/lit	0.50	APHA 4500 NH ₃
12	Ammonia	< 0.056	mg/lit		APHA 5520 B
13	- m II	< 0.1	mg/lit	0.50	10.10

For GADARK LAB PVT, LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

Report No.	GW/23/0094	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
Client Name & Address	GMR Goa International Airpo Administrative Block, Mopa Ir Taluka Pernem, Mopa, North	nternational Airport, Dadachiw	adi 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 ₃	0.020	mg/lit	45.00	APHA 4500 NO₂ 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 B - B
23	Calcium as Ca	4.80	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	1.94	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	3	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

For GADARK LAB PVT. LTD.

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Page 2 of 3



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TEST REPORT

Report No.	GW/23/0094	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	schiwadi 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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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Page 3 of 3

Equipment Calibration Details

Sr. No.	Equipment Name	Equipment Id	Certificate	Calibra	ation Details
			No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	4	In hous	se Calibration
02.	Turbidity Meter	GL/EQ/Turb/01		In hous	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	AVI/2207012	01/07/2022	30/06/2023
05.	U V Spectrophotometer	GUEQ/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/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/202 2/02/74	17/02/2022	16/02/2023
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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

	ANALYSIS	REPORT FOR	WATER SAMPLE					
Report No.	GW/23/0095		Report Date	25/	01/2023			
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	Environmental Condition of Lab		Temp ⁶ C	Humidity %			
Order / regierence	20/01/2023	Chyloning	nar condition or cau	25.2	49.0			
Sampling Plan	GLPL/QF/7.3/06	Sampling P	rocedure No.	APHA 1060				
Sampling Point	WTP RO							
Sampling Details	WTP RO Outlet Wa	iter Sample	Date of Collection	20/	20/01/2023			
Sample Collected by	GLPL Representative		Sample Received (On 20/	20/01/2023			
Analysis Started On	21/01/2023		Analysis Complete	d On 25/	25/01/2023			
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	7.78	- 4	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	- 1	Not Specified	APHA 2150 B
6	Total Alkalinity	2.0	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	2.0	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	< 0.5	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO₂	0.25	mg/lit	200.00	APHA 4500 SO ₄ ² E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	< 2.0	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

For GADARK LAB PVT. LTD.

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

TEST REPORT

Report No.	GW/23/0095	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadach	niwadi 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 ₃	0.002	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	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 B - B
23	Calcium as Ca	< 0.8	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	< 0.5	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	< 0.1	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	< 0.0049	mg/lit	0.05	APHA 3111 B

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TEST REPORT

Report No.	GW/23/0095	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadach	iwadi 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

For GADARK LAB PVT. LTD.

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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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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

Sr. No.		Equipment	Certificate	Calibration Details		
	Equipment Name	Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration	
02.	Turbidity Meter	GL/EQ/Turb/01		In hous	se Calibration	
03.	Analytical Balance	GL/EQ/BAL/03	AVI/2207023	01/07/2022	30/06/2023	
04.	Hat 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/I-01	AV1/2207006	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/202 2/02/74	17/02/2022	16/02/2023	
10.	Autoclave	GL/EQ/A/81	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/23/0096	-	Report Date	25/01/		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 20/01/2023	Environmental Condition of Lab		Temp 25.2	retainment of	Humidity % 49.0		
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	rocedure No.	APHA 1060				
Sampling Point	PTB L0 Fountain							
Sampling Details	PTB L0 Water Four	ntain Sample	Date of Collection	ate of Collection 20/01/20		2023		
Sample Collected by	GLPL Representative		Sample Received On		20/01/2023			
Analysis Started On	21/01/2023		Analysis Completed On		1 25/01/2023			
Sample Container	Plastic Carboy + GI	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	7.83	+	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	18.14	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	34	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	2.01	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	0.50	mg/lit	200.00	APHA 4500 SO ₄ 2° E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	10	mg/lit	200.00	APHA 2340 C
12	Ammonia	< 0.056	mg/lit	0.50	APHA 4500 NH ₀
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/23/0096	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	achiwadi 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 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	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 B - B
23	Calcium as Ca	4.0	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	< 0.5	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	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	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0096	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
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 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

For GADARK LAB PVT. LTD.

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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

Sr.		Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	ld	No.	Calibration Date	Next Calibration Due Date
01,	pH Meter	GL/EQ/pH/01		In hous	se Calibration
02.	Turbidity Meter	GL/EQ/Turb/01	(+)	In hous	se 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/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/202 2/02/74	17/02/2022	16/02/2023
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 REPOR	TFOR	WATER SAMPLE			
Report No.	GW/23/0097	Report Date		25/01/202	23	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Interna	tional Airport, Dadachi	wadi	Road, Nag	zar,
Outer / Deference	As Per Dated 20/01/2023	Enginemental Condition of			Temp C	Humidity %
Order / Reference	As Per Dated 20/01/2023	Lab			25.2	49.0
Sampling Plan	GLPL/QF/7,3/06	Samp	ling Procedure No.	A	APHA 1060	
Sampling Point	PTB L1 Fountain			_		
Sampling Details	PTB L1 Water Fountain Sa	mple	Date of Collection		20/01/2023	
Sample Collected by	GLPL Representative		Sample Received On		20/01/2023	
Analysis Started On	21/01/2023		Analysis Completed On		25/01/2023	
Sample Container	Plastic Carboy + Glass Bot	tle	Sample Quantity		4 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.75		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	18.14	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	35	mg/lit	500.00	APHA 2540 C
8	Chlorides as CI	2.01	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	0.75	mg/lit	200.00	APHA 4500 SO ₄ ² E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	10	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0097	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
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	tS desirable Limit (As per IS 10500)	Method
14	Residual Free Chlorine	Nil	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.014	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	4.0	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	< 0.5	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	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	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GVV/23/0097	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
Client Name & Address	GMR Goa International Airp 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	Calibra	ation Details
No.	Equipment Name	Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration
02	Turbidity Meter	GL/EQ/Turb/01	(+	In hous	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	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/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/202 2/02/74	17/02/2022	16/02/2023
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/23/0098		Report Date	1	25/01/	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	Environmental Condition of Lab		Temp	°C	Humidity %	
Diddi / Nererenio	20/01/2023	Livinginingi	iai condition of cau	25.2	2	49.0	
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	rocedure No.	APHA 1060			
Sampling Point	PTB L2 Fountain				Services.	71000.00	
Sampling Details	PTB L2 Water Four	ntain Sample	Date of Collection		20/01/2023		
Sample Collected by	GLPL Representative		Sample Received On		20/01/2023		
Analysis Started On	21/01/2023		Analysis Completed On		n 25/01/2023		
Sample Container	Plastic Carboy + GI	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	7:74		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	18.14	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	37	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	2.01	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO₄	0.75	mg/lit	200.00	APHA 4500 SO ₄ ² E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	14	mg/lit	200,00	APHA 2340 C
12	Ammonia	< 0.058	mg/lit	0.50	APHA 4500 NH ₃
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/23/0098	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
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	NII	mg/lit	0.20	APHA 4500 CI B
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	Phenalic 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	4.80	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	0.40	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	0.8	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	< 0.1	rng/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0098	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
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	(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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For GADARK LAB PVT. LTD.

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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.

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

Sr.	2 2 2 2 2	Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	•	In hous	se 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/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	AVV2207016	01/07/2022	30/06/2023
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/202 2/02/74	17/02/2022	16/02/2023
10.	Autoclave	GL/EQ/A/01	AVV2207004	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 W	ATER SAMPLE				
Report No.	GW/23/0099		Report Date	25/	01/2023		
Client Name & Address	Administrative Bloc	MR Goa International Airport Limited, Idministrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Ialuka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated	Environmental Condition of Lab		Temp °C	Humidity %		
Older / Hardrende	20/01/2023			25.2	49.0		
Sampling Plan	GLPL/QF/7.3/06	Sampling Prod	cedure No.	APHA 1060			
Sampling Point	Admin 1 ^{et} Floor		- Control of the Cont				
Sampling Details	Admin 1st Floor - W	/ater Dispenser	Date of Collection		20/01/2023		
Sample Collected by	GLPL Representative		Sample Received	On 2	0/01/2023		
Analysis Started On	21/01/2023		Analysis Completed On		25/01/2023		
Sample Container	Plastic Carboy + Gi	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	7.24		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	24.19	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	45	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	8.05	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	0.75	mg/lit	200.00	APHA 4500 SO ₄ ² E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Client Name & Address	Administrative Bloc	onal Airport Limited, k, Mopa International Airport, Di opa, North Goa - 403512	adachiwadi Road, Nagzar,
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
Order / Reference	As per dated	Sample Received on	20/01/2023
Report No.	GW/23/0099	Report Date	25/01/2023

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 ₃	0.010	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	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	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	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0099	Report Date	25/01/2023
Order / Reference	As Per Dated 20/01/2023	Sample Received on	20/01/2023
Analysis Started On	21/01/2023	Analysis Completed On	25/01/2023
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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For GADARK LAB PVT. LTD.

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Page 3 of 3

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Equipment Calibration Details

Sr.		Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	ld	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 hous	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	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/D1	-	In hour	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/202 2/02/74	17/02/2022	16/02/2023
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

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	03/0	03/03/2023							
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	GLE	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
		AMBIENT AIR	LOCATION						
Acation of Ambient Air Sta	tion	Mopa Boundry - Goa St	ate (G-A1)						
Average Ambient Tempera	ture (°C)	32	Average Humidity (%)	66					
Average Wind Speed (km/h	nr)	18.1	Average Wind direction (Deg)	216					
Latitude		N 15°45'51.1°	Longitude	E 73°56'32.4"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411					

Sr.	Date of Sampling	Report No.	PARAMETERS								
No.			SPM	PM ₁₀	PMza	SO ₂	NOx	co	COz	Lead	VOC
1	02/02/2023	GA/23/0181	65.8	63.40	13.72	< 6.0	< 9.0	0.35	110.6	0.08	< 1.0
2	06/02/2023	GA/23/0252	63.3	57.49	14.72	< 6.0	< 9.0	1.63	219.9	0.04	< 1.0
3	09/02/2023	GA/23/0281	67.3	62,88	11.85	< 6.0	< 9.0	0.73	161.0	0.06	< 0.1
4	13/02/2023	GA/23/0300	70.0	57.35	14.47	< 6.0	< 9.0	0.65	103.6	0.04	< 1.0
5	16/02/2023	GA/23/0327	62.7	54.70	13.31	< 6.0	< 9.0	0.24	68.5	0.11	< 1.0
6	20/02/2023	GA/23/0372	68.5	57.04	15,34	< 6.0	< 9.0	0.84	115.4	0.04	< 1.0
7	23/02/2023	GA/23/0425	72.4	60.26	17.05	< 6.0	< 9.0	0.84	143.3	0.08	< 1.0
8	27/02/2023	GA/23/0460	62.5	56.22	12.10	< 6.0	< 9.0	1.05	152.0	0.03	< 1.0
3	NAAQS LI	MITS *	**	100	60	80	80	2	-	1	-
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm
METHOD		(Part 4)	(Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 6182 (Part X) 1999	GC Method	(Part XXII) 2004	EPA Method 18	

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

1. The results relate only to the samples tested.

2. Test Report shalf 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.
 Test Results relate only to the conditions prevailing at the time of sampling.

5. 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.

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



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TEST REPORT

		IESTRI	Charles and the second						
		AMBIENT AIR QUALITY N	MONITORING REPORT						
Report Date	03/0	03/03/2023							
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	GLF	PL/QF/7,3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Shemecheadyan Goa S	necheadyan Goa State (G-A2)						
arage Ambient Temperat	ure (°C)	32.2	Average Humidity (%)	73					
Average Wind Speed (km/h	r)	22.4	Average Wind direction (Deg)	238					
Latitude		N 15°42'06.1"	Longitude	E 73°49'21.5"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Dannet No.		PARAMETERS								
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2.5}	SO ₂	NOx	co	CO2	Lead	VOC	
1	02/02/2023	GA/23/0180	74.2	59.30	15.34	< 6.0	< 9:0	0,69	118.3	0.05	< 1.0	
2	06/02/2023	GA/23/0251	67.6	53.95	13,72	< 6.0	< 9.0	0.39	51.12	0.02	< 1.0	
3	09/02/2023	GA/23/0280	73.5	52.71	14.97	< 6.0	< 9.0	0.65	189.7	0.03	< 1.0	
4	13/02/2023	GA/23/0299	77.0	61.16	17.09	< 6.0	< 9.0	1.07	166.5	0.04	< 1.0	
5	16/02/2023	GA/23/0326	69.6	53.58	15.39	< 6.0	< 9.0	0.49	199.2	0.08	< 1.0	
6	20/02/2023	GA/23/0371	74.3	57.43	17.26	< 6.0	< 9.0	0.66	119.0	0.04	< 1.0	
7	23/02/2023	GA/23/0424	76.7	58.50	14.26	< 6.0	< 9.0	0.69	128.5	0.09	< 1.0	
8	27/02/2023	GA/23/0459	70.2	51.40	15.93	< 6.0	< 9.0	0.90	147,1	0.05	< 1.0	
71	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	+	
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m²	mg/m³	ppm	µg/m³	ppm	
METHOD		(Part 4)	IS \$182 (Parl XXIII) 2008	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2018	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	15 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18		

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

Note:

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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. Customer complaint register is available at laboratory

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

For GADARK LAB PVT. LTD.

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[SANTOSH V. ZULPE]

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



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 • Websita: www.gadark.in

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

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		LES I KI	The second of the Real Control of the Second						
No. of the last of	-	AMBIENT AIR QUALITY N	MONITORING REPORT						
Report Date	03/0	03/03/2023							
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	GLF	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Nagzar – Goa State (G-	A3)						
erage Ambient Temperat	ture (°C)	31.5	Average Humidity (%)	60					
Average Wind Speed (km/h	ir)	17.4	Average Wind direction (Deg)	222					
Latitude		N 15°45'37.3'	Longitude	E 73°53'14.22"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	December 11				PARA	METERS				
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2.6}	SO ₂	NOx	co	CO2	Lead	VOC
1	02/02/2023	GA/23/0173	129.6	79.86	18.71	< 6.0	< 9.0	0.55	172.8	0.05	< 1.0
2	06/02/2023	GA/23/0244	121.3	77.76	17.63	< 6.0	< 9.0	0.94	148.9	0.03	< 1.0
3	09/02/2023	GA/23/0273	126.3	79.98	19.79	< 6.0	< 9.0	1,17	157,7	0.03	< 1.0
4	13/02/2023	GA/23/0292	121.3	73.52	16.80	< 6.0	< 9.0	0.82	187.5	0.05	< 1.0
5	16/02/2023	GA/23/0319	127.5	69.42	19.38	< 6.0	< 9.0	0.53	76.1	0.02	< 1.0
6	20/02/2023	GA/23/0364	119.8	77.90	16.18	< 6.0	< 9.0	0.63	143.7	0.05	< 1.0
7	23/02/2023	GA/23/0417	138.7	66.18	18.84	< 6.0	< 9.0	0.51	61.01	0.02	< 1.0
8	27/02/2023	GA/23/0452	130.4	68.60	15.18	< 6.0	< 9.0	0.62	67.0	0.03	< 1.0
3	NAAQS LIM	IITS .		100	60	80	80	2		1	**
	UNITS		µg/m³	µg/m³	µg/m²	µg/m³	µg/m³	mg/m ³	ppm	µg/m³	ppm
	метно	D	IS 5187 (Part 4)	15 6182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2016	(Part II) 2001	(Part VI) 2006	(S 5182 (Part X) 1999	GC Method	(Part (XXII) 2004	EPA Method 16

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

Note:

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

		AMBIENT AIR QUALITY N	MONITORING REPORT						
Report Date	03/0	03/03/2023							
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	GLF	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
PARTITION OF THE PARTIT		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Purva Casarvarnem - G	oa State (G-A4)						
Average Ambient Temperat	ture (°C)	32.0	Average Humidity (%)	65					
Average Wind Speed (km/h	ir)	18	Average Wind direction (Deg)	240					
Latitude		N 15°41'41.9"	Longitude	E 73°50'16.6"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411					

Sr.	Date of	Daniel Ha		PARAMETERS								
No.	Sampling	Report No.	SPM	PM10	PM _{2.6}	SOz	NOx	CO	CO2	Lead	VOC	
1	02/02/2023	GA/23/0174	101.8	59,71	15.76	< 6.0	< 9.0	1.10	187,3	0.05	< 1.0	
2	06/02/2023	GA/23/0245	98.2	56.62	13.02	< 6.0	< 9.0	1.07	204.1	0.02	< 1.0	
3	09/02/2023	GA/23/0274	101.9	62.84	16.97	< 6.0	< 9.0	0.36	189.7	0.03	< 1.0	
4	13/02/2023	GA/23/0293	99.1	57.98	14.39	× 6.0	< 9.0	1.05	164.5	0.04	< 1.0	
5	16/02/2023	GA/23/0320	100.4	55.39	15.64	< 6.0	< 9.0	0.80	66.5	0.01	< 1.0	
6	20/02/2023	GA/23/0365	94.8	57.68	13.22	< 6.0	< 9.0	0.26	68.7	0.03	< 1.0	
7	23/02/2023	GA/23/0418	102.9	52.97	14.22	< 6.0	< 9.0	0.89	136.8	0.06	< 1.0	
8	27/02/2023	GA/23/0453	96.9	49.61	13.85	< 6.0	< 9.0	0.95	141.1	0.02	< 1.0	
-	NAAQS LI	MITS *	-	100	60	80	80	2		1	-	
	UNIT	S	µg/m²	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm	
	METHOD		(S 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2018	(Part II) 2001	tS 5162 (Part VI) 2006	IS 5182 (Part X) 1009	GC Method	IS 6182 (Part XXII) 2004	EPA Method 18	

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

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

4. Toot 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 enalysis is back side of analysis report.

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

		AMBIENT AIR QUALITY	The state of the s						
Report Date	03/0	03/03/2023							
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	GLF	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Khajne Amere Porscode	em - Goa State (G-A5)						
erage Ambient Temperat	ure (°C)	32.5	Average Humidity (%)	72					
Average Wind Speed (km/h	r)	11.2	Average Wind direction (Deg)	234					
Latitude		N 15°40'38.0"	Longitude	E 73°46'21.2"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Depart No.		PARAMETERS								
No.	Sampling	Report No.	SPM	PM _{t0}	PM _{2.6}	SO ₂	NOx	co	CO ₂	Lead	VOC	
1	02/02/2023	GA/23/0175	39.9	50.40	10.69	< 6.0	< 9.0	1.14	158.7	0.06	< 1.0	
2	06/02/2023	GA/23/0246	42.8	55.90	12.18	< 6.0	< 9.0	0.47	65.8	0.03	< 1.0	
3	09/02/2023	GA/23/0275	47.7	57.93	14.01	< 6.0	< 9.0	0.23	132.8	0.05	< 1.0	
4	13/02/2023	GA/23/0294	49.5	49.58	10.69	< 6.0	< 9.0	1.09	150.0	0.04	< 1.0	
5	16/02/2023	GA/23/0321	44.7	53.55	12.35	< 6.0	< 9.0	0.95	86.4	0.09	< 1.0	
6	20/02/2023	GA/23/0366	49.3	48.84	10.65	< 6.0	< 9.0	0.95	138.0	0.10	< 1.0	
7	23/02/2023	GA/23/0419	50.9	46.38	11.10	< 6.0	< 9.0	0.41	81.3	0.12	< 1.0	
8	27/02/2023	GA/23/0454	46.9	45.93	10.35	< 6.0	< 9.0	0.33	78.1	0.04	< 1.0	
1	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	**	
	UNIT	s	µg/m³	µg/m³	hB/w ₃	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm	
	метн	OD	15 5182 (Part 4)	IS 5182 (Part XXIII) 2005	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2008	IS 5182 (Part X) 1999	GC Method	15 \$182 (Part XXII) 2004	EPA Method 18	

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

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

FOR GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY



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



INDUSTRIAL ANALYSTS & CONSULTANTS

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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

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	03/0	03/03/2023							
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	GLE	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLE	GLPL Representative							
Month of Sampling	Feb	nuary 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Rajvil Wada Torxem - 0	Goa State (G-A6)						
overage Ambient Temperat	ture (°C)	32	Average Humidity (%)	68					
Average Wind Speed (km/h	r)	11.4	Average Wind direction (Deg)	205					
Latitude		N 15°48'40.0"	Longitude	E 73°52'50,2"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460) GPS (APM						

Sr.	Date of	Constant No.				PARA	AMETERS				
No.	Sampling	Report No.	SPM	PM10	PM _{2.8}	SOz	NOx	co	COz	Lead	VOC
1	02/02/2023	GA/23/0178	60.4	63.40	14.43	< 6.0	< 9.0	0.61	96.7	0.08	< 1.0
2	06/02/2023	GA/23/0249	65.5	67.22	15.93	< 6.0	< 9.0	0.88	110.8	0.04	< 1.0
3	09/02/2023	GA/23/0278	70.2	61.50	12.85	< 6.0	< 9.0	0.30	63.0	0.06	< 1.0
4	13/02/2023	GA/23/0297	97.3	56.47	11.89	< 6.0	< 9.0	0.51	92.0	0.01	< 1.0
5	16/02/2023	GA/23/0324	72.4	49.22	15.18	< 6.0	< 9.0	0.24	83.2	0.06	< 1.0
6	20/02/2023	GA/23/0369	65.2	58.72	13.60	< 6.0	< 9.0	0.30	61.6	0.06	< 1.0
7	23/02/2023	GA/23/0422	70.4	55.30	13.27	< 6.0	< 9.0	0.79	135.6	0.12	< 1.0
8	27/02/2023	GA/23/0457	62.1	50.73	12.93	< 6.0	< 9.0	0.23	64.6	0.04	< 1.0
) =	NAAQS LI	MITS *		100	60	80	80	2	**	1	
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m ³	ppm	µg/m³	ppm
	METHO	00	IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- 1., 2014-2016	(Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	15 5182 (Part (XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST PEPOPT

		AMBIENT AIR QUALITY	The state of the s						
	10000		MONITORING REPORT						
Report Date	03/0	03/03/2023							
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	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Satarda - Maharashtra	State (M-A1)						
erage Ambient Temperat	ture (°C)	31.5	Average Humidity (%)	60					
Average Wind Speed (km/h	ir)	8.9	Average Wind direction (Deg)	188					
Latitude		N 15°43'01.3"	Longitude	E 73*46'00.2*					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Danast No.			-	PARA	METERS				
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2,5}	SO ₂	NOx	co	COz	Lead	VOC
1	02/02/2023	GA/23/0176	59.3	54.70	11.81	< 6.0	< 9.0	1.26	188.8	0.07	< 1.0
2	06/02/2023	GA/23/0247	63.4	51.64	10.89	< 6.0	< 9.0	0.75	128.1	0.03	< 1.0
3	09/02/2023	GA/23/0276	90.3	52.78	12.81	< 6.0	< 9.0	0.33	84.5	0.05	< 1.0
4	13/02/2023	GA/23/0295	93.0	58.74	15.39	< 6.0	< 9.0	0.95	157.0	0.03	< 1.0
5	16/02/2023	GA/23/0322	84.0	55.20	13.89	< 6.0	< 9.0	0.81	96.3	0.11	< 1.0
6	20/02/2023	GA/23/0367	78.3	46.61	10.77	< 6.0	< 9.0	0.62	77.0	0.06	< 1.0
7	23/02/2023	GA/23/0420	80.5	55.88	13.10	< 6.0	< 9.0	0.70	132.0	0.08	< 1.0
8	27/02/2023	GA/23/0455	83.2	60.30	14.85	< 6.0	< 9.0	0.71	127.4	0.05	< 1.0
	NAAQS LI	MITS *	**	100	60	80	80	2	-	1	25
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm
	МЕТНО	OD	IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM. 40 CFR Part 50, Appendix- L, 2014-2018	IS \$182 (Part II) 2001	(5 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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5. Customer complaint register is available at laboratory.

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



LAB .: H-54, Additional M.t.D.C. Kudal, Taluka - Kudal, District - Sindhudurg - 416.525. Tel: (02362) 223519 . E-mail: info@godark in . Website: www.gadark.in

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

TEST DEDODT

		AMBIENT AIR QUALITY	The same of the sa						
Report Date	03/0	03/03/2023							
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	GLE	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLE	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Dingane - Maharashtra	State (M-A2)						
erage Ambient Temperat	ture (°C)	31.5	Average Humidity (%)	70					
Average Wind Speed (km/h	ir)	15.6	Average Wind direction (Deg)	220					
Latitude		N 15°46'12,3°	Longitude	E 73°49'20.5"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	December 110				PAR	AMETERS				
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2.6}	SOz	NOx	co	COz	Lead	VOC
1	02/02/2023	GA/23/0179	65.2	55.56	12.64	< 6.0	< 9.0	0.83	189.0	0.06	< 1.0
2	06/02/2023	GA/23/0250	60.1	49.62	11,10	< 6.0	< 9.0	0.97	193.2	0.02	< 1.0
3	09/02/2023	GA/23/0279	56.8	43.29	11.52	< 6.0	< 9.0	0.29	73.2	0.04	< 1.0
4	13/02/2023	GA/23/0298	54.5	50.84	10.77	< 6.0	< 9.0	1.15	163.7	0.01	< 1.0
5	16/02/2023	GA/23/0325	49.8	42.47	12.35	< 6.0	< 9.0	0.34	108,9	0.05	< 1.0
6	20/02/2023	GA/23/0370	45.4	50.35	9.23	< 6.0	< 9.0	0.73	111.7	0.01	< 1.0
7	23/02/2023	GA/23/0423	49.2	44.48	12.27	< 6.0	< 9.0	0.63	138.4	0.07	< 1.0
8	27/02/2023	GA/23/0458	44,4	48.31	10.52	< 6.0	< 9.0	0.72	125.7	0.02	< 1.0
1	NAAQS LI	MITS *	**	100	60	80	80	2	H-1	1	**
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m²	ppm	µg/m³	ppm
	METH	00	IS 5182 (Part 4)	IS 5182 (Part XXIII) 2008	USEPA FEM. 40 CFR Part 50, Appendix- L, 2014-2018	(S 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	(S 5182 (Part (XXII) 2004	EPA Method 18

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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	17/03/2022	17/03/2023
Respirable Dust Sampler Sr. No. 1284-R-228-DTK-2014	05/03/2022	05/03/2023
Gaseoue Sampler Sr. No. 1440-DTJ-2014	05/03/2022	05/03/2023
UV Spectrophotometer Sr. No. Equiptronics EQ 826	15/10/2022	14/10/2023
Gas Chromatograph (GC) Sr. No. Thermo-Fisher Trace 600	17/01/2023	16/01/2024



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	03/0	03/03/2023							
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	GLE	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Feb	ruary 2023							
		AMBIENT AIR	LOCATION						
I ocation of Ambient Air Sta	tion	Netarde - Maharashtra	State (M-A3)						
. verage Ambient Temperat	ure (°C)	32	Average Humidity (%)	65					
Average Wind Speed (km/h	r)	8.7	Average Wind direction (Deg)	210					
Latitude		N 15°46′11.7°	Longitude	E 73°53'47.0"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Devent No.				PAR	AMETERS				
No.	Sampling	Report No.	SPM	PM ₁₀	PMzs	SO ₂	NOx	co	CO ₂	Lead	VOC
1	02/02/2023	GA/23/0177	55.0	43.55	9.36	< 6.0	< 9.0	0.79	130.5	0.06	< 1.0
2	06/02/2023	GA/23/0248	58.7	44.46	9.15	< 6.0	< 9.0	0.23	51.1	0.02	< 1.0
3	09/02/2023	GA/23/0277	48.7	46.66	11.27	< 6.0	< 9.0	0.40	121.7	0.04	< 1.0
4	13/02/2023	GA/23/0296	54.3	44.97	10.73	< 6.0	< 9.0	0.81	148.7	0.01	< 1.0
5	16/02/2023	GA/23/0323	57.7	41.58	11.85	< 6.0	< 9.0	0.22	113.8	0.06	< 1.0
6	20/02/2023	GA/23/0368	49.3	49.32	9.69	< 6.0	< 9.0	0.67	107.5	0.06	< 1.0
7	23/02/2023	GA/23/0421	55.4	45.35	10.98	< 6.0	< 9.0	0.36	63.8	0.05	< 1.0
8	27/02/2023	GA/23/0456	47.7	40.71	8.82	< 6.0	< 9.0	0.31	65.7	0.03	< 1.0
1	NAAQS LI	MITS *	-	100	60	80	80	2		1	77
	UNIT	s	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm
	метн	OD	IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM. 40 CFR Part 50, Appendix- L, 2014-2016	(Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1999	GC Method	(Part (XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY

[SANTOSH V. ZULPE]

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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

	NOISE LEV	EL MONITORING REPORT	
Date of Issue	03/03/2023		
Name of Client	M/s. GMR GOA INTER	NATIONAL AIRPORT LIMITED	
Address of Client		OCK, MOPA INTERNATIONAL AIRPO JKA PERNEM, MOPA, NORTH GOA	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	GLPL/SOP/AA/17
Sample Collected By	GLPL Representative		

AMBIENT AIR NOISE POLLUTION MONITORING

Sr.	Date of	Report No.	Station	Zone Sampling Location		Day Time Noise in dB(A)			Night Time Noise in dB(A)		
No.	Sampling	83378CN-8CA	10	75.74.6	3.000 Mora # 1905 A 1000 1	Len	Loss	Lag	Lan	Lear	Leg
1	17.02.2023	GA/23/0328	G-N1	1	Mopa Boundary	38	81.3	55.3	38.3	80	50.4
2	12.02.2023	GA/23/0286	G-N2	1	Shemecheadvan	31.6	79.8	52.5	32.6	74.1	43.3
3	12.02.2023	GA/23/00287	G-N3	C	Nagzar	30.1	87.7	57.2	30.6	70.5	42.0
4	24.02.2023	GA/23/0434	G-N4	R	Purva Casarvamem	34.4	67.8	50.2	31	59.1	43.0
5	13.02.2023	GA/23/0301	G-N5	R	Chandel	35.2	70.6	52.9	31	67.3	38.7
6	11.02.2023	GA/23/0402	G-N6	R	Khajne Amere Porscodem	30.8	66	50.9	32.9	55.8	43.5
7	24.02.2023	GA/23/0435	G-N7	R	Warkhand	32.3	77.3	47.4	30.1	65.1	43.2
8	25.02.2023	GA/23/0439	G-N8	C	Rajvil Wada Torxem	32.8	69.4	46.7	30.4	70.4	49.5
.0	25.02.2023	GA/23/0438	G-N9	C	Village Panchayant Tamboxem – Mopa - Ugvern	38.5	83	44.0	38.2	53	44,4
10	11.02.2023	GA/23/0401	M-N1	R	Satarda	31	65.2	47.5	33.5	48.7	42.7
11	07.02.2023	GA/23/0263	M-N2	R	Dingane	37,1	81.4	52.2	35.7	77.8	43.9
12	07.02.2023	GA/23/0254	M-N3	R	Netarde	30.1	89.5	49.5	30	58.1	37.5

I -- Industrial Zone, C -- Commercial Zone, R -- Residential Zone

1] Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows

	American de	Column of the	Limits in dB(A) Leq			
Area Code	Area Code	Category of Area	Day Time	Night Time		
	(A)	Industrial Area (I)	75	70		
	(B)	Commercial Area (C)	65	55		
	(C)	Residential Area (R)	55	45		
_	(D)	Silence Zone (S)	50	40		

- 2] Day time to reckoned in between 6:00 am to 10 pm and night time is reckoned in between 10:00 pm to 06:00 am
- 3] *dB(A) Log denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A *decibel* is a unit in which noise is measured.
- 4] "A". in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- 5] Leq It is the energy mean of the noise level over a specified period

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For GADARK LAB PVT. LTD.

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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	



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE			
Report No.	GW/23/0268	GW/23/0268			0/02/2023	
Client Name & Address	GMR Goa Internation Administrative Block Taluka Pernem, Mo	k, Mopa Interr	national Airport, Dadac	hiwadi Ro	ad, Nagzar,	
Order / Reference	As Per Dated 16/02/2023	Environmental Condition of Lab		Temp of	C Humidity %	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	WTP RO			-		
Sampling Details	WTP RO Inlet Water	er Sample	Date of Collection	16	6/02/2023	
Sample Collected by	GLPL Representative		Sample Received	On 18	16/02/2023	
Analysis Started On	16/02/2023		Analysis Completed On		20/02/2023	
Sample Container	Plastic Carboy + Gi	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	7.52	-	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	24.42	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	42	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	13.09	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	4.75	mg/lit	200.00	APHA 4500 SO,2 E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	8	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0268	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
Client Name & Address	GMR Goa International Airpo Administrative Block, Mopa Ir Taluka Pernem, Mopa, North	sternational Airport, Dadachiw	adi 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 ₃	0.018	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	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
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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	2.40	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	0.068	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.001	mg/lit	0.01	APHA 3111 B
27	Magnesium as Mg	0.49	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	10.0	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	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, No	International Airport, Dada	ichiwadi Road, Nagzar,
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Report No.	GW/23/0268	Report Date	20/02/2023

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY

[SANTOSH V. ZULPE]

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Equipment Calibration Details

Sr.		Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	ld	No.	Calibration Date	Next Calibration Due Date
01,	pH Meter	GL/EQ/pH/01		In hou	se Calibration
02	Turbidity Meter	GL/EQ/Turb/01		In hou	se 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/22 23/082	15/10/2022	14/10/2023
05.	ICP - OES	GL/EQ/ICP/01	-	In hou	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	16/02/2023	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/23/0269		Report Date	2	0/02/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated	Environmental Condition of Lab		Temp		
ACTION OF THE PARTY OF THE PART	16/02/2023	100000000000000000000000000000000000000	TOTAL STREET,	29.5	Treatment of the same	
Sampling Plan	GLPL/QF/7.3/06	Sampling P	rocedure No.	APHA 1060		
Sampling Point	WTP RO					
Sampling Details	WTP RO Outlet Wa	iter Sample	Date of Collection	ate of Collection 16/02/202		
Sample Collected by	GLPL Representative		Sample Received On		16/02/2023	
Analysis Started On	16/02/2023		Analysis Completed On		n 20/02/2023	
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	6.91		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	4.07	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	5	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	3.02	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	1.00	mg/lit	200.00	APHA 4500 SO ₄ 2 E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	< 2.0	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadach	niwadi Road, Nagzar,
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Report No.	GW/23/0269	Report Date	20/02/2023

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
14	Residual Free Chlorine	Nit	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.002	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	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 B - B
23	Calcium as Ca	< 0.8	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	0.068	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.001	mg/lit	0.01	APHA 3111 B
27	Magnesium as Mg	< 0.5	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	1.7	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
3	Copper as Cu	< 0.0049	mgnit	0.05	APPIA 31111

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TEST REPORT

Report No.	GW/23/0269	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadach	niwadi Road, Nagzar,

Microbiological Parameters:

Sr. No.	Parameters	Result	Unit	(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

For GADARK LAB PVT. LTD.

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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

Sr.		Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	7 * 7	In hous	se Calibration
02	Turbidity Meter	GL/EQ/Turb/01		In hous	se 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/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
.80	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	16/02/2023	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/23/0270		Report Date		20/02/	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	Environmental Condition of Lab		Temp	O C	Humidity %		
Diddi / Nojojojio	16/02/2023	Elly Collings	iai conomen or can	29.5		35		
Sampling Plan	GLPL/QF/7:3/06	Sampling Pr	ocedure No.	APHA 1060				
Sampling Point	PTB L0 Fountain							
Sampling Details	PTB L0 Water Four	ntain Sample	Date of Collection		16/02/2023			
Sample Collected by	GLPL Representative		Sample Received (On 16/02/2023		2023		
Analysis Started On	16/02/2023		Analysis Completed On		On 20/02/2023			
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	7.31		6.5 - 8.5	APHA 4500 H*
2	Turbidity	0.1	NTU	1.00	APHA 2130 B
3	Taste	Agreeable	4	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	8.14	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	13	mg/lit	500.00	APHA 2540 C
8	Chlorides as CI	7.05	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	0.25	mg/lit	200.00	APHA 4500 SO,2 E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ³ F
11	Total Hardness as CaCO ₃	6	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/23/0270	Report Date	20/02/2023			
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023			
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023			
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				

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 ₃	0.008	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	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 B - B
23	Calcium as Ca	1.60	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	0.49	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	2.7	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0270	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	nchiwadi 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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4. Customer complaint register is available at laboratory.

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Equipment Calibration Details

Sr.	Marion Colonia	Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	14.	In hous	se Calibration
02.	Turbidity Meter	GL/EQ/Turb/01	-	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	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/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	16/02/2023	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 REPOR	TFOR	WATER SAMPLE				
Report No.	GW/23/0271	Report Date		20/02/202	23		
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Interna	tional Airport, Dadachi	wadi	Road, Nag	zar,	
Order / Reference	As Per Dated 16/02/2023	Environmental Condition of Lab			Temp °C	Humidity %	
Order / Reference	As Per Dated 16/02/2023				29.5	35	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		A	APHA 1060		
Sampling Point	PTB L1 Fountain			110			
Sampling Details	PTB L1 Water Fountain Sa	mple	Date of Collection		16/02/2023		
Sample Collected by	GLPL Representative		Sample Received On		16/02/2023		
Analysis Started On	16/02/2023		Analysis Completed On		20/02/2023		
Sample Container	Plastic Carboy + Glass Bot	tle	Sample Quantity		4 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.49		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	4	Not Specified	APHA 2150 B
6	Total Alkalinity	8.14	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	14	mg/lit	500.00	APHA 2540 C
8	Chiorides as Cl	9.06	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	0.50	mg/lit	200.00	APHA 4500 SO ₄ 2-E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	4	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0271	Report Date	20/02/2023			
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023			
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023			
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				

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 NO ₃	0.006	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	0.80	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	0.064	mg/lit	1,00	APHA 3111 B
26	Lead as Pb	< 0.001	mg/lit	0.01	APHA 3111 B
27	Magnesium as Mg	0.49	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	2.3	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0271	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
Client Name & Address	GMR Gos International Air Administrative Block, Mopa Taluka Pernem, Mopa, No	International Airport, Dada	achiwadi 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. No.		Equipment Id	Certificate No.	Calibration Details		
	Equipment Name			Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01	+	In hous	se 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/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	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	16/02/2023	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/23/0272		Report Date		20/02/2023	
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated 16/02/2023	Environmental Condition of Lab		annium side	p°C	Humidity %
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		29.5 35 APHA 1060		
Sampling Point	PTB L2 Fountain					
Sampling Details	PTB L2 Water Fountain Sample		Date of Collection		16/02/2023	
Sample Collected by	GLPL Representative		Sample Received On		16/02/2023	
Analysis Started On	16/02/2023		Analysis Completed On		20/02/2023	
Sample Container	Plastic Carboy + Glass 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	7.40		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	19	Not Specified	APHA 2150 B	
6	Total Alkalinity	10.18	mg/lit	200.00	APHA 2320 B	
7	Total Dissolved Solid	12	mg/lit	500.00	APHA 2540 C	
8	Chlorides as Cl	9.06	mg/lit	250.00	APHA 4500 CITB	
9	Sulphate as SO ₄	0.25	mg/lit	200.00	APHA 4500 SO ₄ 2-E	
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F	
11	Total Hardness as CaCO ₃	2	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/23/0272	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
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	NE	mg/lit	0.20	APHA 4500 CI B
15	Nitrate as NO ₃	0.006	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	0.80	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	0.065	mg/lit	1.00	APHA 3111 B
26	Lead as Pb	< 0.001	mg/lit	0.01	APHA 3111 B
27	Magnesium as Mg	< 0.5	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	2.3	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/23/0272	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
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 hrs.	Absent	MPN Index/100ml	Not Specified	APHA 9221 - G

End

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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.

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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Sr.		Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	uipment Name Id No.		Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01	-	In hous	se Calibration
02.	Turbidity Meter	GL/EQ/Turb/01	-	In hous	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 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	16/02/2023	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/23/0273		Report Date	2	20/02/2023	
Client Name & Address	GMR Goa Internation Administrative Block Taluka Pernem, Mo	k, Mopa Interna	ational Airport, Dadaci	niwadi Ro	ad, N	agzar,
Order / Delesses	As Per Dated	Environmen	tal Condition of Lab	Temp	°C	Humidity %
Order / Reference	16/02/2023	Environmental Condition of Lab		29.5		35
Sampling Plan	GLPL/QF/7.3/06	Sampling Pr	rocedure No.	APHA 1060		
Sampling Point	Admin Ground Floo	r				
Sampling Details	Admin Ground Floo Dispenser	Admin Ground Floor - Water		1	16/02/2023	
Sample Collected by	GLPL Representative		Sample Received On		16/02/2023	
Analysis Started On	16/02/2023		Analysis Completed On		20/02/2023	
Sample Container	Plastic Carboy + Gi	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	0.1	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	24.42	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	33	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	13.09	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO,	1.50	mg/lit	200.00	APHA 4500 SO,2 E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	20	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0273	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
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 ₃	0.002	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	6.41	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	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	3.0	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	< 0.0049	mg/lit	0.05	APHA 3111 B

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TEST REPORT

Report No.	GW/23/0273	Report Date	20/02/2023
Order / Reference	As Per Dated 16/02/2023	Sample Received on	16/02/2023
Analysis Started On	16/02/2023	Analysis Completed On	20/02/2023
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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[SANTOSH V. ZULPE]

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Note: 1. Results relate only to the sample tested.

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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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Sr.	988 - 24	Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration
02.	Turbidity Meter	GL/EQ/Turb/01		In hous	se 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/22 23/082	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/I-03	AVI/2207016	01/07/2022	30/06/2023
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	16/02/2023	15/02/2024
10.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023
11.	Water Bath	GL/EQ/WB/01	AVV2207017	01/07/2022	30/06/2023



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TEST REPORT

	ANALYSIS REPORT	FOR WA	TER SAMPLE			
Report No.	GW/23/0229		Report Date		13/02/	2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	onal Airport, Dadachii	wadi F	Road, N	agzar,
Order / Reference	As Per Dated 07/02/2023	Environmental Condition of Lab		-	mp ⁰ C 6.08	Humidity %
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	STP Inlet					
Sampling Details	STP Inlet Water Sample		Date of Collection		07/02/2023	
Sample Collected by	GLPL Representative	The second secon		n.	07/02/2023	
Analysis Started On	08/02/2023 Analysis Completed C		On	13/02/	2023	
Sample Container	Plastic Carboy + Glass Bot	tle	Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

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

Microbiological Parameters:

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

End

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For GADARK LAB PVT. LTD.

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Note:

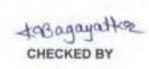
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			Certificate	Calibra	ation Details
Sr. No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01 -	In house Calibration		
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/08/2023
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
06,	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 22/02/74	17/02/2022	16/02/2023
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

	ANALYSIS	REPORT FO	R WATER SAMPLE			
Report No.	GW/23/0230		Report Date	13/02/20		2023
Client Name & Address	GMR Goa Internation Administrative Block Taluka Pernem, Mo	k, Mopa Intern	national Airport, Dadaci	hiwadi Ro	oad, N	lagzar,
Order / Reference	As Per Dated	Environmental Condition of Lab		Temp		Humidity %
Service Control of the Control of th	07/02/2023			26.0	_	50.0
Sampling Plan	GLPL/QF/7.3/06	Sampling I	Procedure No.	APHA 1060		
Sampling Point	STP Outlet					
Sampling Details	STP Outlet Water S	ample	Date of Collection	(07/02/	2023
Sample Collected by	GLPL Representati	ve	Sample Received	ed On 07/02/2023		2023
Analysis Started On	08/02/2023		Analysis Complete	d On	On 13/02/2023	
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	7.61		5.5 - 9.0	APHA 4500 H ⁺
2	Chemical Oxygen Demand (COD)	33	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	8	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	10	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10,00	APHA 5520 B
6	Ammonia	3.92	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	8.06	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

8 Fecal Coliform at 44.5°C for 24 hrs.	79	MPN Index/100ml	100	APHA 9221 E
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For GADARK LAB PVT. LTD.

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			Certificate	Calibra	ation Details
Sr. 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/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/I-01	AVI/2207006	01/07/2022	30/06/2023
06.	Microbiological Incubator (44.5 °C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 22/02/74	17/02/2022	16/02/2023
.80	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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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), Mumbai - 83, Tel.: (022) 2577 7089 / 2577 7070 / 2085 0091 • +91 93213 12367

TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE				
Report No.	GW/23/0274		Report Date	20	/02/2023		
Client Name & Address	Administrative Bloc	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nag Taluka Pernem, Mopa, North Goa - 403512					
Order / Reference	As Per Dated	Environmental Condition of Lab		Temp 0	Humidity %		
Older Liveresenae	16/02/2023			29.5	35		
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	16/02/2023			
Sample Collected by	GLPL Representati	ve	Sample Received	On 16	16/02/2023		
Analysis Started On	16/02/2023		Analysis Complete	d On 20	On 20/02/2023		
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity	51	it + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	6.89	-	5.5 - 9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	73	mg/lit	50,00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	19	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	7	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	15.79	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	19.15	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

8	Fecal Coliform at 44.5°C for 24 hrs.	> 1600	MPN index/100mi	100	APHA 9221 E
	- All III All		nd		

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] Pak LAP a

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Note:

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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. No.	La Section of the Park Alberta	Charles and the control of the contr	Certificate	Calibration Details		
	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023	
04.	BOD incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023	
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023	
06.	Microbiological Incubator (44.5 °C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023	
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	16/02/2023	15/02/2024	
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	



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

TEST REPORT

	ANALYSIS REPORT	FOR WA	TER SAMPLE			
Report No.	GW/23/0331		Report Date		24/02/	2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	onal Airport, Dadachiv	wadi R	oad, N	agzar,
Order / Reference	As Per Dated 20/02/2023	Environmental Condition of Lab		_	p °C	Humidity % 51.0
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	STP Inlet					
Sampling Details	STP Inlet Water Sample		Date of Collection		20/02/2023	
Sample Collected by	GLPL Representative		Sample Received Or		n 20/02/2023	
Analysis Started On	20/02/2023		Analysis Completed O		On 24/02/2023	
Sample Container	Plastic Carboy + Glass Bot	tie	Sample Quantity		5 lit + 1.25 lit	
Sample Container	Plastic Carboy + Glass Bot	tle	Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Method
1	pH	7.20	*	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	622	mg/lit	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	214	mg/lit	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	157	mg/lit	APHA 2540 D
5	Oil & Grease (O & G)	8	mg/lit	APHA 5520 B
6	Ammonia	88,70	mg/lit	APHA 4500 NH₂ B&C
7	Total Nitrogen (as N)	92.06	mg/lit	APHA 4500-Norg

Microbiological Parameters:

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

End

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For GADARK LAB PVT. LTD.

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Sr	Sr. Equipment Name Equipment		Certificate	Calibration Details		
No.		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration	
02	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023	
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023	
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023	
06.	Microbiological Incubator (44.5 °C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023	
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	16/02/2023	15/02/2024	
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE				
Report No.	GW/23/0343		Report Date	27/02/2023		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 22/02/2023	Environmental Condition of Lab		Temp	-	Humidity %	
Sampling Plan	GLPL/QF/7:3/06	Sampling Procedure No.		APHA 1060			
Sampling Point	STP Outlet						
Sampling Details	STP Outlet Water S	Sample	Date of Collection	22/02/2023		2023	
Sample Collected by	GLPL Representati	GLPL Representative		On	On 22/02/2023		
Analysis Started On	22/02/2023		Analysis Completed On		n 27/02/2023		
Sample Container	Plastic Carboy + Gi	Plastic Carboy + Glass Bottle			5 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	8.49		5.5 - 9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	44	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	9	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	8	mg/lit	20,00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	0.90	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	1.12	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

8 Fecal Coliform at 44.5°C for 40 MPN 100 APHA 9221 E	8	
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For GADARK LAB PVT. LTD.

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Sr.	Equipment Name	- Carried Control	Certificate	Calibration Details		
No.		Equipment Id	No.	Calibration Date	Next Calibration Due Date	
01.	pH Meter	GUEQ/pH/01	0.47	In hous	se Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023	
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023	
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023	
05	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023	
06.	Microbiological Incubator (44.5 °C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023	
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	16/02/2023	15/02/2024	
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023	



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE			
Report No.	GW/23/0344		Report Date		27/02/2023	
Client Name & Address	GMR Goa Internation Administrative Blood Taluka Pernem, Mo	k, Mopa Interr	national Airport, Dadac	hiwadi	Road, N	Nagzar,
Order / Reference	As Per Dated 23/02/2023	Environmental Condition of Lab		Tem 29	p°C	Humidity % 40.0
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		
Sampling Point	STP Outlet			A. announce		
Sampling Details	STP Outlet Water S	Sample	Date of Collection	23/02/2023		/2023
Sample Collected by	GLPL Representative		Sample Received	On 23/02/2023		/2023
Analysis Started On	23/02/2023		Analysis Completed On		On 27/02/2023	
Sample Container	Plastic Carboy + GI	ass Bottle	Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

Sr. No.	Parameters	Result	Unit	Limits	Method
1	pH	7.59	~	5.5 - 9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	24	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	7	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	6	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit.	10.00	APHA 5520 B
6	Ammonia	3.92	mg/lit	5.00	APHA 4500 NH ₃ B&C
7	Total Nitrogen (as N)	5.04	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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Sr.	17-17-1	Water State	Certificate	Calibra	ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration
02.	Hot Air Oven	GL/EQ/0/01	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/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	16/02/2023	15/02/2024
.80	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT					
Report Date	04/0	04/2023						
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	ampling Plan GLPL/QI		Page No.	1 of 1				
Sample Collected By	GLE	GLPL Representative						
Month of Sampling	Mar	ch 2023						
	4	AMBIENT AIR	LOCATION					
ation of Ambient Air Sta	tion	Mopa Boundry - Goa St	ate (G-A1)					
Average Ambient Temperat	ture (°C)	32	Average Humidity (%)	68				
Average Wind Speed (km/h	ir)	20.1	Average Wind direction (Deg)	220				
Latitude		N 15°45'51.1"	Longitude	E 73°56'32.4"				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of	Donnet No.				PARA	AMETERS				
No.	Sampling	Report No.	SPM	PM10	PM _{2.5}	SO ₂	NOx	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0499	57.8	54.94	13.60	< 6.0	< 9.0	0.77	159.9	0.05	< 1.0
2	06/03/2023	GA/23/0539	72.4	61.43	20.79	< 6.0	< 9.0	0.69	116.5	0.09	< 1.0
3	09/03/2023	GA/23/0580	79.0	60.27	18.42	< 6.0	< 9.0	0.90	118.9	0.05	< 0.1
4	13/03/2023	GA/23/0613	87.1	58.47	20.04	< 6.0	< 9.0	0.86	107.3	0.09	< 1.0
5	16/03/2023	GA/23/0644	97.4	59.89	22.21	< 6.0	< 9.0	0.31	71.2	0.07	< 1.0
6	20/03/2023	GA/23/0675	105.9	60.97	24.28	< 6.0	< 9.0	0.30	81.9	0.05	< 1.0
7	23/03/2023	GA/23/0702	118.0	60.56	27.45	< 6.0	< 9.0	0.16	51.2	0.11	< 1.0
٩	27/03/2023	GA/23/0737	128.7	78.49	29.82	< 6.0	< 9.0	0.44	120.0	0.13	< 1.0
9	30/03/2023	GA/23/0768	142.6	81.19	25.41	< 6.0	< 9.0	0.44	120.0	0.07	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	-	1	-
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm
	МЕТНО	OD	15 5182 (Part 4)	(S 5182 (Part XXIII) 2008	USEPA FEM, 40 CFR Part 50, Appendix L, 2014-2016	(Part II) 2001	(Part VI) 2006	IS 5182 (Part X) 1990	GC Method	IS 5182 (Part XXII) 2004	EPA Metho 18

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

Mode

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY

[SANTOSH V. ZULPE]



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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



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TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT					
Report Date	04/0	04/2023	110200000000000000000000000000000000000					
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	GLPL/QF/7.3/06		Page No.	1 of 1				
Sample Collected By	GLPL Representative							
Month of Sampling	Mar	ch 2023						
		AMBIENT AIR	LOCATION					
ation of Ambient Air Sta	tion	Shemecheadvan Goa S	State (G-A2)					
Average Ambient Temperat	ture (°C)	32	Average Humidity (%)	72				
Average Wind Speed (km/h	sr)	28.3	Average Wind direction (Deg)	242				
Latitude		N 15°42'06.1°	Longitude	E 73°49'21.5°				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of	Bonnet No.				PAR	AMETERS	8			
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2,8}	SOz	NOx	co	COz	Lead	VOC
1	02/03/2023	GA/23/0498	78.4	57.76	18.59	< 6.0	< 9.0	0.17	70.7	0.06	< 1.0
2	06/03/2023	GA/23/0538	84.0	82.04	19.38	< 6.0	< 9.0	0.56	143.0	0.05	< 1.0
3	09/03/2023	GA/23/0579	73.5	52.71	14.97	< 6.0	< 9.0	0.65	189.7	0.03	< 1.0
4	13/03/2023	GA/23/0612	102.4	64.76	24.95	< 6.0	< 9.0	0.92	144.6	80.0	< 1.0
5	16/03/2023	GA/23/0643	115.6	69.07	28.44	< 6.0	< 9.0	0.50	107.9	0.04	< 1.0
6	20/03/2023	GA/23/0674	128,3	66.64	23.74	< 6.0	< 9.0	0.51	121.5	0.04	< 1.0
7	23/03/2023	GA/23/0701	146.8	68.05	25.03	< 6.0	< 9.0	0.67	147.4	0.04	< 1.0
	27/03/2023	GA/23/0736	159.2	69.75	26.32	< 6.0	< 9.0	1.04	140.1	0.10	< 1.0
9	30/03/2023	GA/23/0767	170.2	70.61	28.69	< 6.0	< 9.0	0.65	98.6	0.06	< 1.0
	NAAQS LI	MITS *	**	100	60	80	80	2	-	1	- 100
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m ³	ppm	µg/m³	ppm
	МЕТНО	ac	1S 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2008	IS 5182 (Part X) 1999	GC Method	(Part (XXII) 2004	EPA Method 18

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

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

For GADARK LAB PVT. LTD.

8-4-

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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



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TEST DEDODT

		AMBIENT AIR QUALITY I	MONITORING REPORT				
Report Date	04/0	14/2023					
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	L/QF/7.3/06	Page No.	1 of 1			
Sample Collected By	GLF	GLPL Representative					
Month of Sampling	Mar	ch 2023					
	- 6	AMBIENT AIR	LOCATION				
Location of Ambient Air Sta	tion	Nagzar - Goa State (G-	A3)				
srage Ambient Temperat	ure (°C)	32.0	Average Humidity (%)	62			
Average Wind Speed (km/h	r)	18.2	Average Wind direction (Deg)	228			
Latitude		N 15°45'37.3"	Longitude	E 73°53'14.22"			
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)			

Sr.	Date of	Daniel No.				PARA	METERS				V.
No.	Sampling	Report No.	SPM	PM ₁₀	PM2.8	SOz	NOx	CO	CO ₂	Lead	VOC
1	02/03/2023	GA/23/0491	177.1	83.66	21.04	< 6.0	< 9.0	0.65	60.9	0.03	< 1.0
2	06/03/2023	GA/23/0531	193.8	92.14	46.78	< 6.0	< 9.0	0.93	133.1	0.04	< 1.0
3	09/03/2023	GA/23/0572	179.5	87.64	25.78	< 6.0	< 9.0	0.71	137.9	0.02	< 1.0
4	13/03/2023	GA/23/0605	168.1	77.66	31.10	< 6.0	< 9.0	0.95	136.9	0.06	< 1.0
5	16/03/2023	GA/23/0636	159.3	74.82	28.69	< 6.0	< 9.0	0.48	119.6	0.06	< 1.0
6	20/03/2023	GA/23/0667	171.7	75.71	30.81	< 6.0	< 9.0	0.49	104.7	0.07	< 1.0
7	23/03/2023	GA/23/0694	183.3	94.79	34.39	< 6.0	< 9.0	0.54	126.9	0.05	< 1.0
8	27/03/2023	GA/23/0729	172.7	93,31	31.27	< 6.0	< 9.0	0.57	102.9	0.03	< 1.0
9	30/03/2023	GA/23/0760	160.2	92.33	29.32	< 6.0	< 9.0	0.32	93.5	0.04	< 1.0
	NAAQS LIM	ITS *		100	60	80	80	2	-	1	
	UNITS	Y	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm
	метно	D	IS 5182 (Part 4)	(\$ 5182 (Part XXIII) 2006	USEPA FEM. 40 CFR Part 50, Appendix- 1., 2014-2018	IS 5182 (Part II) 2001	(S 5182 (Part VI) 2008	IS 5182 (Part X) 1099	GC Method	IS 5182 (Part XXR) 2004	EPA Method 18

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

Note:

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

For GADARK LAB PVT, LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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



LAB : H-54, Additional M.I.D.C. Kudol, Taiuka - 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 7068 / 2577 7070 / 2085 0891 + +91 93213 12367

TEST REPORT

		AMBIENT AIR QUALITY I	MONITORING REPORT						
Report Date	04/0	04/04/2023							
Name of Client	M/s	GMR GOA INTERNATION	AL AIRPORT LIMITED						
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, DADACHIWADI ROAI NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA 403512.							
Sampling Plan	GLPL/QF/7.3/06		Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Mar	ch 2023							
		AMBIENT AIR	LOCATION						
Lucation of Ambient Air Sta	tion	Purva Casarvarnem - G	oa State (G-A4)						
Average Ambient Temperat	ure (°C)	32.0	Average Humidity (%)	68					
Average Wind Speed (km/h	r)	20	Average Wind direction (Deg)	232					
Latitude		N 15°41'41.9"	Longitude	E 73°50'16.6"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Depart No.				PAR	AMETERS	0			
No.	Sampling	Report No.	SPM	PM ₁₀	PM _{2.8}	SO ₂	NOx	co	CO2	Lead	VOC
1	02/03/2023	GA/23/0492	133.0	55.04	17.09	< 6.0	< 9.0	0.55	111.9	0.03	< 1.0
2	06/03/2023	GA/23/0532	156.5	86.59	29.32	< 6.0	< 9.0	0.38	87.4	0.06	< 1.0
3	09/03/2023	GA/23/0573	141.1	69,69	30.52	< 6.0	< 9.0	0.37	90.4	0.04	< 1.0
4	13/03/2023	GA/23/0606	132.2	71.49	23.91	< 6.0	< 9.0	0.26	70.8	0.03	< 1.0
5	16/03/2023	GA/23/0637	121.6	66.72	22.25	< 6.0	< 9.0	0.41	110.3	0.06	< 1.0
6	20/03/2023	GA/23/0668	134.2	65.67	23.66	< 6.0	< 9.0	0.68	116.7	0.06	< 1.0
7	23/03/2023	GA/23/0695	147.5	95.99	28.65	< 6.0	< 9.0	0.59	133.3	0.01	< 1.0
d	27/03/2023	GA/23/0730	135.1	85.9	24.75	< 6.0	< 9.0	0.95	61.0	0.06	< 1.0
9	30/03/2023	GA/23/0761	148.2	90.41	20.87	< 6.0	< 9.0	0.78	121.4	0.05	< 1.0
	NAAQS LI	MITS *	**	100	60	80	80	2	-	1	
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m ³	ppm	µg/m³	ppm
	метно	ac	(Part 4)	IS 5182 (Part XXIII) 2008	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2016	(Part II) 2001	15 5182 (Part VI) 2008	IS 5182 (Part X) 1999	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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

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

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

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



CHECKED BY

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



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TEST REPORT

		AMBIENT AIR QUALITY	MONITORING REPORT						
Report Date	04/0	04/04/2023							
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	GLF	PL/QF/7.3/06	Page No.	1 of 1					
Sample Collected By	GLF	GLPL Representative							
Month of Sampling	Mar	ch 2023							
		AMBIENT AIR	LOCATION						
Location of Ambient Air Sta	tion	Khajne Amere Porscode	em - Goa State (G-A5)						
Average Ambient Temperat	ture (°C)	32.5	Average Humidity (%)	70					
Average Wind Speed (km/hr)		15.4	Average Wind direction (Deg)	230					
Latitude		N 15*40'38.0"	Longitude	E 73°46'21.2"					
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)					

Sr.	Date of	Daniel No.				PARA	METERS				
No.	Sampling	Report No.	SPM	PM10	PM _{2.6}	SOz	NOx	co	CO2	Lead	VOC
1	02/03/2023	GA/23/0493	50.6	53.60	11.19	< 6.0	< 9.0	0.46	121.2	0.04	< 1.0
2	06/03/2023	GA/23/0533	55.8	57.50	12.35	< 6.0	< 9.0	0.75	136.4	0.09	< 1.0
3	09/03/2023	GA/23/0574	55.8	59.73	14.01	< 8.0	< 9.0	0.32	76.1	0.03	< 1.0
4	13/03/2023	GA/23/0607	59.3	63.57	18.21	< 6.0	< 9.0	0.23	54.1	0.08	< 1.0
5	16/03/2023	GA/23/0638	68.2	60.79	17.01	< 6.0	< 9.0	0.46	91.0	0.05	< 1.0
6	20/03/2023	GA/23/0669	78.5	52.67	13.60	< 6.0	< 9.0	0.93	139.5	0.07	< 1.0
7	23/03/2023	GA/23/0696	89.1	58.89	15.93	< 6.0	< 9.0	0.50	108.1	0.07	< 1.0
8	27/03/2023	GA/23/0731	80.0	59.54	19.00	< 6.0	< 9.0	0.64	129.6	0.06	< 1.0
Q.	30/03/2023	GA/23/0762	86.8	61,17	15.76	< 6.0	< 9.0	0.62	102.6	0.03	< 1.0
	NAAQS LI	MITS *	- 10	100	60	80	80	2	-	1	
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m²	ppm
	METHO	DD	(Part 4)	15 5182 (Part XXIII) 2006	USEPA FEM. 40 CFR Part 50, Appendix- L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	(Part X) 1999	GC Method	85 5182 (Part XXII) 2054	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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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	04/0	04/04/2023						
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	Mar	ch 2023						
		AMBIENT AIR	LOCATION					
Location of Ambient Air Sta	tion	Rajvil Wada Torxem - 0	Goa State (G-A6)					
A. Jrage Ambient Temperat	ture (*C)	32.5	Average Humidity (%)	71				
Average Wind Speed (km/h	ir)	13.3	Average Wind direction (Deg)	212				
Latitude		N 15°48'40.0"	Longitude	E 73°52'50.2"				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of	Describe.				PAR	AMETERS	2			
No.	Sampling	Report No.	SPM	PM ₁₀	PMz.s	SOI	NOx	co	CO1	Lead	VOC
1	02/03/2023	GA/23/0496	59.3	52.72	13.68	< 6.0	< 9.0	0.93	153.9	0.06	< 1.0
2	06/03/2023	GA/23/0536	77.2	58.53	15.55	< 6.0	< 9.0	0.38	52.5	0.10	< 1.0
3	09/03/2023	GA/23/0577	65.9	61.48	13.85	< 6.0	< 9.0	0.61	83.6	0.08	< 1.0
4	13/03/2023	GA/23/0610	84.8	62.72	17.80	< 6.0	< 9.0	0.69	105.9	0.06	< 1.0
5	16/03/2023	GA/23/0641	102.7	65.44	19.25	< 6.0	< 9.0	0.69	101.0	0.10	< 1.0
6	20/03/2023	GA/23/0672	110.4	69.74	22.58	< 6.0	< 9.0	0.43	94.3	0.07	< 1.0
7	23/03/2023	GA/23/0699	122.4	95.29	27.53	< 6.0	< 9.0	0.30	87.0	0.07	< 1.0
8	27/03/2023	GA/23/0734	135.6	87.93	22.08	< 6.0	< 9.0	0.33	60.7	0.09	< 1.0
J.F	30/03/2023	GA/23/0765	148.1	71.17	24.37	< 6.0	< 9.0	0.24	61,6	0.08	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2		1	-
	UNIT	S	µg/m²	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m ¹	ppm
	метно	00	15 5182 (Part 4)	IS 5182 (Part XXIII) 2008	USEPA FEM, 40 CFR Part 50, Appendix- L. 2014-2018	(S 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS \$182 (Part X) 1999	GC Method	15 5182 (Part XX8) 2004	EPA Method 18

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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



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TEST REPORT

		AMBIENT AIR QUALITY	MONITORING REPORT					
Report Date	04/0	04/04/2023						
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	Mar	ch 2023						
		AMBIENT AIR	LOCATION					
Location of Ambient Air Sta	tion	Satarda - Maharashtra	State (M-A1)					
Augrage Ambient Temperat	ure (°C)	32.5	Average Humidity (%)	64				
Average Wind Speed (km/h	r)	10.8	Average Wind direction (Deg)	190				
Latitude		N 15°43'01.3°	Longitude	E 73°46'00.2°				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr.	Date of	Depart No.				PARA	METERS				
No.	Sampling	Report No.	SPM	PM10	PM _{2.4}	SO ₃	NOx	co	CO2	Lead	VOC
1	02/03/2023	GA/23/0494	75.1	57.56	13.18	< 6.0	< 9.0	0.96	146.1	0.06	< 1.0
2	06/03/2023	GA/23/0534	80.2	63.09	14.68	< 6.0	< 9.0	0.89	134.6	0.10	< 1.0
3	09/03/2023	GA/23/0575	75.4	59.69	17.30	< 6.0	< 9.0	0.30	79.06	0.05	< 1.0
4	13/03/2023	GA/23/0608	86.2	63.11	19.54	< 6.0	< 9.0	0.67	135.3	0.10	< 1.0
5	16/03/2023	GA/23/0639	96.9	67.53	21.58	< 6.0	< 9.0	0.80	133.8	0.10	< 1.0
6	20/03/2023	GA/23/0670	104.8	58.87	17.17	< 6.0	< 9.0	0.32	62,7	0.07	<1.0
7	23/03/2023	GA/23/0697	92.4	72.25	20.83	< 6.0	< 9.0	0.42	122.8	0.07	< 1.0
В	27/03/2023	GA/23/0732	99.2	61.48	21.29	< 6.0	< 9.0	0.72	140.1	0.09	< 1.0
5	30/03/2023	GA/23/0763	109.7	64.16	28.86	< 6.0	< 9.0	0.98	147.2	0.06	< 1.0
	NAAQS LI	MITS *	-	100	60	80	80	2	100	1	-
	UNIT	S	µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm
	метно	OD	(S 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	IS 5182 (Part X) 1998	GC Method	IS 5182 (Part XXII) 2004	EPA Method 18

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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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 LD.C. Kudal, Taluku - Kudal, District - Sindhudurg - 416 525. Tel.: (02362) 223519 . E-mail: info@gadark.in . Website: www.gadark.in

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TEST REPORT

	200	AMBIENT AIR QUALITY	MONITORING REPORT					
Report Date	04/0	14/2023						
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	GLE	PL/QF/7.3/06	Page No.	1 of 1				
Sample Collected By	GLF	GLPL Representative						
Month of Sampling								
		AMBIENT AIR	LOCATION					
ation of Ambient Air Sta	tion	Dingane – Maharashtra	State (M-A2)					
Average Ambient Temperat	ure (°C)	32	Average Humidity (%)	75				
Average Wind Speed (km/hr)		18.4	Average Wind direction (Deg)	230				
Latitude		N 15°46'12.3"	Longitude	E 73°49'20.5"				
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)				

Sr. No.	Date of Sampling	Report No.	PARAMETERS									
			SPM	PMia	PM _{2.5}	SO ₂	NOx	co	CO2	Lead	VOC	
1	02/03/2023	GA/23/0497	49.0	50.28	11.64	< 6.0	< 9.0	0.02	86.3	0.03	< 1.0	
2	06/03/2023	GA/23/0537	52.2	40.01	32.89	< 6.0	< 9.0	0.18	51.44	0.06	< 1.0	
3	09/03/2023	GA/23/0578	55.6	38.28	18.21	< 6.0	< 9.0	0.45	71.4	0.04	< 1.0	
4.	13/03/2023	GA/23/0611	61.2	47.67	15.14	< 6.0	< 9.0	0.71	109.2	0.02	< 1.0	
5	16/03/2023	GA/23/0642	69.6	51.87	12.02	< 6.0	< 9.0	0.28	51.8	0.01	< 1.0	
6	20/03/2023	GA/23/0673	81.9	54.23	13.18	< 6.0	< 9.0	0.72	75.2	0.04	< 1.0	
7	23/03/2023	GA/23/0700	97.8	64.72	15.59	< 6.0	< 9.0	0.63	142.6	0.03	< 1.0	
9	27/03/2023	GA/23/0735	108.2	66.31	19.05	< 6.0	< 9.0	0.83	115.9	0.07	< 1.0	
A	30/03/2023	GA/23/0766	117.8	59.04	16,72	< 6.0	< 9.0	0.39	122.0	0.06	< 1.0	
NAAQS LIMITS *		-	100	60	80	80	2		1	-		
UNITS		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m ³	ppm	µg/m²	ppm		
METHOD			IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix L, 2014-2016	IS 5182 (Part II) 2001	IS 5182 (Part VI) 2006	15 5182 (Part X) 1999	GC Method	IS 5182 (Part XXIII) 2004	EPA Method 18	

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

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

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5. Customer complaint register is available at laboratory

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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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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TEST REPORT

		AMBIENT AIR QUALITY	MONITORING REPORT				
Report Date	04/0	14/2023					
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	Mar	ch 2023					
		AMBIENT AIR	LOCATION				
Location of Ambient Air Sta	tion	Netarde - Maharashtra	State (M-A3)				
h. erage Ambient Temperat	ure (°C)	31,5	Average Humidity (%)	60			
Average Wind Speed (km/h	r)	9.9	Average Wind direction (Deg)	208			
Latitude		N 15°46'11.7"	Longitude	E 73°53'47.0"			
Instrument Used		FPS (APM - 550)	RDS (APM - 460)	GPS (APM - 411)			

Sr.	Date of Sampling	Report No.	PARAMETERS									
No.			SPM	PM ₁₀	PMzs	SO ₂	NOx	co	CO2	Lead	VOC	
1	02/03/2023	GA/23/0495	28.4	43.81	10.10	< 6.0	< 9.0	0.36	89.3	0.06	< 1.0	
2	06/03/2023	GA/23/0535	31.1	50.62	12.93	< 6.0	< 9.0	0.22	51.3	0.06	< 1.0	
3	09/03/2023	GA/23/0576	33.7	56.02	14.55	< 6.0	< 9.0	0.42	61.8	0.01	< 1.0	
4	13/03/2023	GA/23/0609	37.0	56.39	13.31	< 6.0	< 9.0	0,27	50,6	0.06	< 1.0	
5	16/03/2023	GA/23/0640	43.5	57,06	14.55	< 6.0	< 9.0	0.91	145.9	0.03	< 1.0	
6	20/03/2023	GA/23/0671	52.4	49.87	12.10	< 6.0	< 9.0	0.38	86.6	0.07	< 1.0	
7	23/03/2023	GA/23/0698	66.6	67.71	14.72	< 6.0	< 9.0	0.35	130.1	0.02	< 1.0	
8	27/03/2023	GA/23/0733	74.7	57.99	18.30	< 6.0	< 9.0	0.39	64.9	0.06	< 1.0	
J	30/03/2023	GA/23/0764	84.5	58.98	14.10	< 6.0	< 9.0	0.29	58.1	0.09	< 1.0	
NAAQS LIMITS *			100	60	80	80	2	**	1	***		
UNITS		µg/m³	µg/m³	µg/m³	µg/m³	µg/m³	mg/m³	ppm	µg/m³	ppm		
METHOD		IS 5182 (Part 4)	IS 5182 (Part XXIII) 2006	USEPA FEM, 40 CFR Part 50, Appendix- L, 2014-2016	15 5182 (Part II) 2001	IS 5182 (Part VI) 2008	IS 5182 (Fart X) 1999	GC Method	(Part (XXII) 2004	EPA Method		

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

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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. Customer complaint register is available at laboratory

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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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TEST REPORT

	NOISE LEV	EL MONITORING REPORT	
Date of Issue	03/04/2023		
Name of Client	M/s. GMR GOA INTER	NATIONAL AIRPORT LIMITED	
Address of Client		OCK, MOPA INTERNATIONAL AIRPO JKA PERNEM, MOPA, NORTH GOA	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	GLPL/SOP/AA/17
Sample Collected By	GLPL Representative		

AMBIENT AIR NOISE POLLUTION MONITORING

Sr.	Date of	Report No.	Report No. Station	Zone	Zone Sampling Location	Day Time Noise in dB(A)			Night Time Noise in dB(A)		
No.	Sampling	NIGHT SANTAKE	10	100000000	SSU: 604-3235335	Loon	Lan	Lee	Lees	Loses	Len
1	15/03/2023	GA/23/0617	G-N1	1	Mopa Boundary	41.7	83.9	56.6	50.4	74.8	53.3
2	18/03/2023	GA/23/0649	G-N2	1	Shemecheadvan	41.2	83.6	56.1	47.5	84.6	53.5
3	18/03/2023	GA/23/0650	G-N3	C	Nagzar	37.2	78.6	55.3	37.7	67.2	51.2
4	14/03/2023	GA/23/0614	G-N4	R	Purva Casarvement	32.0	67.3	51.0	29.8	63.1	38.6
5	28/03/2023	GA/23/0740	G-N5	R	Chandei	30.9	82.5	51.7	30.2	71.6	40.7
6	14/03/2023	GA/23/0615	G-N8	R	Khajne Amere Porscodem	34.3	72.4	47.1	37.4	53.7	43.2
7	28/03/2023	GA/23/0741	G-N7	R	Warkhand	30.0	84.6	53.7	34.8	63.1	43.9
8	07/03/2023	GA/23/0542	G-Nt	C	Rajvil Wada Torxem	35.8	69.5	51.1	28.3	60.3	45.3
9	15/03/2023	GA/23/0618	G-N9	C	Vitage Panchayant Tamboxem - Mopa - Ugvern	38.2	85.2	52.1	40.2	70.2	51.4
10	07/03/2023	GA/23/0541	M-N1	R	Salarda	33.8	72.0	52.5	29.0	70.9	43.5
11	03/03/2023	GA/23/0500	M-N2	R	Dingane	30,8	71.5	43.4	30.3	52.7	35.1
12	03/03/2023	GA/23/0501	M-N3	R:	Netarde	27.2	84.3	52.3	23.6	53.6	35.3

I - Industrial Zone, C - Commercial Zone, R - Residential Zone

1) Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1986" are as follows

Acceptance of the second	Colonia of Land	Limits in	dB(A) Leq	Г
Area Code	Category of Area	Day Time	Night Time	
(A)	Industrial Area (I)	75	70	
(B)	Commercial Area (C)	65	55	
(C)	Residential Area (R)	55	45	
(D)	Silence Zone (5)	50	40	

- 21 Day time to reckoned in between 6.00 am to 10 pm and night time is reckoned in between 10.00 pm to 06.00 am
- 3] *dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. A "decibel" is a unit in which noise is measured.
- 4] "A", in dB(A) Leq, denotes the frequency weighting in the measurement of noise and corresponds to frequency response characteristics of the human ear.
- 5) Leg : It is the energy mean of the noise level over a specified period.

Note

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY

[SANTOSH V. ZULPE]



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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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

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



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TEST REPORT

	NOISE LEV	EL MONITORING REPORT	
Date of Issue	03/04/2023		
Name of Client	M/s. GMR GOA INTER	NATIONAL AIRPORT LIMITED	
Address of Client		OCK, MOPA INTERNATIONAL AIRPO JKA PERNEM, MOPA, NORTH GOA	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.	GLPL/SOP/AA/17
Sample Collected By	GLPL Representative		

AMBIENT AIR NOISE POLLUTION MONITORING

Sr. No.	Date of Report No.	Warrant.	Station	Zone	Remotion Leastion	Day Tim	e Noise	in dB(A)
		report rea.	ID Zone		Sampling Location	Louis	Loui	Lag
1	09/03/2023	GA/23/0582	G-N3	C	Nagzar Pump Off	43.7	71.9	56.9
2	17/03/2023	GA/23/0648	G-N3	C	Nagzar Pump Off & On	45.7	74.7	61.2
3	24/03/2023	GA/23/0703	G-N3	C	Nagzar Pump Off & On	42.4	72.3	56.8
4	28/03/2023	GA/23/0704	G-N3	C	Nagzar Pump Off & On	44.0	66.9	59.7

I - Industrial Zone, C - Commercial Zone, R - Residential Zone

Noise Limits as per Schedule III of "The Environment (Protection) Rules, 1985" are as follows

Anna Carta	Colones of the	Limits in	dB(A) Leq	
Area Code	Category of Area	Day Time	Night Time	
(A)	Industrial Area (I)	75	70	
(B)	Commercial Area (C)	65	55	
(C)	Residential Area (R)	55	45	
(D)	Silence Zone (S)	50	40	

- Day time to reckoned in between 5:00 am to 10 pm and night time is reckoned in between 10:00 pm to 06:00 am
- "dB(A) Leg denotes the time weighted average of the level of sound in decibels on scale A which is relatable to human hearing. 3 A "decibel" is a unit in which noise is measured.
- "A", in dB(A) Leg, denotes the frequency weighting in the measurement of noise and corresponds to frequency response 4] characteristics of the human ear.
- Leg: It is the energy mean of the noise level over a specified period. 5]

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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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	WATER SAMPLE			
Report No.	GW/23/0444	GW/23/0444			24/03/2023	
Client Name & Address	GMR Goa Internation Administrative Block Taluka Pernem, Mo	, Mopa Interna	tional Airport, Dadaci	hiwadi f	Road, N	lagzar,
Order / Reference	As Per Dated	Environmental Condition of Lab		Tem	Section Section 1	Humidity %
3,110,11,10,10,10,10	18/03/2023	1211(11.0)		30	.0	46
Sampling Ptan	GLPL/QF/7.3/06	Sampling Pro	ocedure No.	APHA 1060		
Sampling Point	Apron, Aircraft Fillin	g Point				
Sampling Details	Apron, Aircraft Water	r Filling Point	Date of Collection		18/03/	2023
Sample Collected by	GLPL Representativ	GLPL Representative		On	18/03/2023	
Analysis Started On	18/03/2023		Analysis Completed On		24/03/2023	
Sample Container	Plastic Carboy + Gla	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	7.17		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	18.29	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	38	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	13,18	mg/lit	250.00	APHA 4500 CITB
9	Sulphate as SO ₄	2.00	mg/lit	200.00	APHA 4500 SO ₄ 2-E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S ² F
11	Total Hardness as CaCO ₃	10	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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY (SANTOSH V. ZULPE)



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TEST REPORT

Report No.	GW/23/0444	Report Date	24/03/2023
Order / Reference	As Per Dated 18/03/2023	Sample Received on	18/03/2023
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023
Client Name & Address	GMR Goa International Airpo Administrative Block, Mopa Ir Taluka Pernem, Mopa, North	nternational Airport, Dadachiw	adi 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	0.032	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	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 B - B
23	Calcium as Ca	2.40	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	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	9.2	mg/lit	Not Specified	APHA 3500 Na B
32	Potassium as K	0.6	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



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TEST REPORT

Report No.	GW/23/0444	Report Date	24/03/2023
Order / Reference	As Per Dated 18/03/2023	Sample Received on	18/03/2023
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	International Airport, Dada	achiwadi 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

NUDA

For GADARK LAB PVT, LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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Page 3 of 3

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Equipment Calibration Details

Sr.		Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	Id	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration
02	Turbidity Meter	GL/EQ/Turb/01		In hous	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	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 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	18/03/2023	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	R WATER SAMPLE				
Report No.	GW/23/0445		Report Date	24/	03/2023		
Client Name & Address	GMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Taluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Par Dated		ntal Condition of Lah	Temp °C	Humidity %		
Order / Nerestation	18/03/2023	Crivironine	ntal Condition of Lab	30.0	46		
Sampling Plan	GLPL/QF/7.3/06	Sampling F	Procedure No.	APHA 1060			
Sampling Point	PTB L0 Fountain				-		
Sampling Details	PTB L0 Water Four	ntain	Date of Collection	18/	03/2023		
Sample Collected by	GLPL Representative		Sample Received	On 18/03/2023			
Analysis Started On	18/03/2023		Analysis Complete	d On 24/	24/03/2023		
Sample Container	Plastic Carboy + Gi	ass Bottle	Sample Quantity	4 10	4 lit + 1.25 lit		

Chemical Testing:

Sr. No.	Parameters	Result	Unit	IS desirable Limit (As per IS 10500)	Method
1	pH	7.10		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	10.16	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	25	mg/lit	500,00	APHA 2540 C
8	Chlorides as Cl	10.14	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO ₄	0.75	mg/lit	200.00	APHA 4500 SO ₄ 2-E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S2F
11	Total Hardness as CaCO ₃	8	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

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE] OF KUDAL

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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

Report No.	GW/23/0445	Report Date	24/03/2023
Order / Reference	As Per Dated 18/03/2023	Sample Received on	18/03/2023
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadach	iwadi 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 ₃	0.024	mg/lit	45.00	APHA 4500 NO₃ 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 B - B
23	Calcium as Ca	1.6	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	< 0.0096	mg/lit	5.00	APHA 3111 B
31	Sodium as Na	4.2	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	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0445	Report Date	24/03/2023
Order / Reference	As Per Dated 18/03/2023	Sample Received on	18/03/2023
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023
Client Name & Address	GMR Goa International Airp Administrative Block, Mopa Taluka Pernem, Mopa, Nort	International Airport, Dadach	iwadi 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

For GADARK LAB PVT. LTD.

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Note:

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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.	A STATE OF THE STA	Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	ld	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration
02	Turbidity Meter	GL/EQ/Turb/01	-	In hous	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	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 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/1-03	AVI/2207016	01/07/2022	30/06/2023
09.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	18/03/2023	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	R WATER SAMPLE					
Report No.	GW/23/0446		Report Date	24/03		/03/2023		
Client Name & Address	Administrative Bloc	OMR Goa International Airport Limited, Administrative Block, Mopa International Airport, Dadachiwadi Road, Nagzar, Faluka Pernem, Mopa, North Goa - 403512						
Order / Reference	As Per Dated	Environmental Condition of Lab		Tem	p°C	Humidity %		
Crider / Reservance	18/03/2023			30.0		46		
Sampling Plan	GLPL/QF/7.3/06	Sampling F	Procedure No.	APHA 1060				
Sampling Point	PTB Retail Outlet (I	.2)		-		HC 2-12 C		
Sampling Details	PTB Retail Outlet (I	.2)	Date of Collection		18/03/2023			
Sample Collected by	GLPL Representati	GLPL Representative		On	18/03/2023			
Analysis Started On	18/03/2023		Analysis Completed On		24/03/2023			
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	7.13		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	16.25	mg/lit	200.00	APHA 2320 B
7	Total Dissolved Solid	35	mg/lit	500.00	APHA 2540 C
8	Chlorides as Cl	12.16	mg/lit	250.00	APHA 4500 CI-B
9	Sulphate as SO ₄	1.50	mg/lit	200.00	APHA 4500 SO ₄ 2-E
10	Sulphides	< 0.001	mg/lit	Not Specified	APHA 4500 S2F
11	Total Hardness as CaCO ₃	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

For GADARK LAB PVT. LTD.

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TEST REPORT

Report No.	GW/23/0446	Report Date	24/03/2023
Order / Reference	As Per Dated 18/03/2023	Sample Received on	18/03/2023
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023
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	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 ₃	0.030	mg/lit	45.00	APHA 4500 NO₃ 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 B - B
23	Calcium as Ca	2.40	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	< 0.0096	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	0.5	mg/lit	Not Specified	APHA 3500 K B
33	Copper as Cu	< 0.0049	mg/lit	0.05	APHA 3111 B

For GADARK LAB PVT. LTD.

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INDUSTRIAL ANALYSTS & CONSULTANTS

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

TEST REPORT

Report No.	GW/23/0446	Report Date	24/03/2023
Order / Reference	As Per Dated 18/03/2023	Sample Received on	18/03/2023
Analysis Started On	18/03/2023	Analysis Completed On	24/03/2023
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

For GADARK LAB PVT. LTD.

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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.

Page 3 of 3

Equipment Calibration Details

Sr.	Reconstruction of the section	Equipment	Certificate	Calibra	ation Details
No.	Equipment Name	ld	No.	Calibration Date	Next Calibration Due Date
01.	pH Meter	GL/EQ/pH/01		In hous	se Calibration
02.	Turbidity Meter	GL/EQ/Turb/01		In hous	se 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/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	18/03/2023	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



INDUSTRIAL ANALYSTS & CONSULTANTS

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TEST REPORT

	ANALYSIS REPORT	FOR WAT	ER SAMPLE			
Report No.	GW/23/0447		Report Date		24/03/2023	
Client Name & Address	GMR Goa International Air Administrative Block, Mopa Taluka Pernem, Mopa, Nor	Internation	nal Airport, Dadachin	wadi Ro	oad, N	agzar,
Order / Reference	As Per Dated 18/03/2023	Environmental Condition of Lab		Temp °C 30.0		Humidity % 46
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060		0.0
Sampling Point	STP Inlet					
Sampling Details	STP Inlet Water Sample	1	ate of Collection	ollection 18/03/2		2023
Sample Collected by	GLPL Representative		Sample Received Or		n 18/03/2023	
Analysis Started On	18/03/2023		Analysis Completed On		n 24/03/2023	
Sample Container	Plastic Carboy + Glass Bottle		Sample Quantity		5 lit + 1.25 lit	

Chemical Testing:

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

Microbiological Parameters:

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

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For GADARK LAB PVT. LTD.

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Equipment Calibration Details

Sr.		Lanca and the	Certificate	Calibra	ation Details
No.	Equipment Name	Equipment Id	No.	Calibration Date	Next Calibration Due Date
01	pH Meter	GL/EQ/pH/01 -	In hous	se Calibration	
02.	Hot Air Oven	GL/EQ/0/01	AVI/2207012	01/07/2022	30/06/2023
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023
04.	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023
05.	Microbiological Incubator (37 °C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
06,	Microbiological Incubator (44.5 ft C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	18/03/2023	15/02/2024
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

	ANALYSIS	REPORT FOR	R WATER SAMPLE				
Report No.	GW/23/0448	GW/23/0448			24/03/2023		
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	Environmental Condition of Lab		Tem	-	Humidity %	
ALIGNATURE TO SEE	18/03/2023			30	.0	46	
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No.		APHA 1060			
Sampling Point	STP Outlet						
Sampling Details	STP Outlet Water S	Sample	Date of Collection		18/03/2023		
Sample Collected by	GLPL Representati	ve	Sample Received	On	18/03/2023		
Analysis Started On	18/03/2023		Analysis Complete	d On	24/03/2023		
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	6.29	-	5.5 - 9.0	APHA 4500 H*
2	Chemical Oxygen Demand (COD)	16	mg/lit	50.00	APHA 5220 B
3	Biochemical Oxygen Demand (27°C day) (BOD)	7	mg/lit	10.00	IS 3025 (Part 44): 1993
4	Total Suspended Solids (TSS)	12	mg/lit	20.00	APHA 2540 D
5	Oil & Grease (O & G)	< 0.1	mg/lit	10.00	APHA 5520 B
6	Ammonia	4.36	mg/lit	5.00	APHA 4500 NH₃ B&C
7	Total Nitrogen (as N)	9.18	mg/lit	10.00	APHA 4500-Norg

Microbiological Parameters:

3	Fecal Coliform at 44.5°C for 24 hrs.	84	MPN Index/100ml	100	APHA 9221 E
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For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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Equipment Calibration Details

Sr.	The second secon	20.02	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	01/07/2022	30/06/2023
03.	COD Digester	GL/EQ/COD/01	AVI/2207010	01/07/2022	30/06/2023
04	BOD Incubator	GL/EQ/I/02	AVI/2207014	01/07/2022	30/06/2023
05.	Microbiological Incubator (37 ° C)	GL/EQ/I-01	AVI/2207006	01/07/2022	30/06/2023
06	Microbiological Incubator (44.5 ° C)	GL/EQ/I-03	AVI/2207016	01/07/2022	30/06/2023
07.	Laminar Air Flow	GL/LF/01	TECH/VAL/20 23/02/89	18/03/2023	15/02/2024
08.	Autoclave	GL/EQ/A/01	AVI/2207004	01/07/2022	30/06/2023



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TEST REPORT

Olyon El	MISSION REPORT						
GA/23/0515	Test Re	port Da	te 09/03/202	23			
M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED							
	ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, ADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA – 403 512.						
GLPL/QF/7,3/06	Sampling Procedu	re No.	GLPL/SOP/SE	/11			
GLPL Representative	Enviro	nmental	Condition of Lab				
05/03/2023	Temperature (°C)	28.4	Humidity (%)	48.0			
06/03/2023	Analysis Peri	od	06/03/2023 To 09/	03/2023			
	M/s. GMR GOA INTERI ADMINISTRATIVE BLO ROAD, NAGZAR, TALL GLPL/QF/7.3/06 GLPL Representative 05/03/2023	M/s. GMR GOA INTERNATIONAL AIRPOR ADMINISTRATIVE BLOCK, MOPA INTERN ROAD, NAGZAR, TALUKA PERNEM, MOP GLPL/QF/7.3/06 Sampling Procedu GLPL Representative Enviro 05/03/2023 Temperature (°C)	M/s. GMR GOA INTERNATIONAL AIRPORT LIMIT ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL ROAD, NAGZAR, TALUKA PERNEM, MOPA, NOR GLPL/QF/7,3/06 Sampling Procedure No. GLPL Representative Environmental 05/03/2023 Temperature (°C) 28.4	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, ADACH ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA – 403 512. GLPL/QF/7.3/06 Sampling Procedure No. GLPL/SOP/SE, GLPL Representative Environmental Condition of Lab 05/03/2023 Temperature (°C) 28.4 Humidity (%)			

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET NO. 1 (2000 KVA) [S-1]		
Lab Reference No.	GA/23/0515		
Time of Sampling (Hrs)	12:00		
Stack Diameter [mm]	457		
Height [Meter]	30.0		
Type of Fuel	HSD		
Consumption of Fuel. [Lit/hr]	250		
Temperature of flue gas [°C]	470		
Average flue gas velocity [m/s]	21.3		
Average volume of flue gas discharged [Nm³/hr]	5049		

ANALYSIS REPORT:

Parameters	Unit	Results	GSPCB Limits**	Sampling & Analysis Methods
TPM / SPM	mg/Nm³	40.6	75 mg/Nm ³	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm³	117.4		IS 11255 (Part II) 1985
NOx	ppm v/v	74.3	710 ppm v/v	IS 11255 (Part VII) 2005
CO	mg/Nm³	15.9	150 mg/Nm ²	APHA Edition II-134
NMHC	mg/Nm³	13.3	100 mg/Nm ²	IS 5182 Part 21/2001

[&]quot;Consent No. 12/2022-PCB/1322094/R008891

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



CHECKED BY

Nate:

1. The results relate only to the samplex tested.

2. 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. Test Results relate only to the conditions prevaling at the line of sampling.

Distance complaint register is available of laboratory

Calibration details of the equipment's used in monitoring and i or unabysis is back side of assisting report.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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

TEST REPORT

	STACK E	MISSION REPORT						
Test Report No.	GA/23/GMR/051	7 Test Re	eport Da	te 09/03/20	23			
Name of Client	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED							
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, ADACHIWADI ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA – 403 512.						
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedu	ire No.	GLPL/SOP/SE	/11			
Sample Collected By	GLPL Representative	Environmental Condition of Lab						
Date of Sampling	05/03/2023	Temperature (°C)	28.4	Humidity (%)	48.0			
Sample Received on	06/03/2023	Analysis Peri	od	06/03/2023 To 09/03/20				

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET NO. 2 (2000 KVA) [S-2]	
Lab Reference No.	GA/23/GMR/0517	
Time of Sampling (Hrs)	14:10	
Stack Diameter [mm]	457	
Height [Meter]	30.0	
Type of Fuel	HSD	
Consumption of Fuel [Lit/hr]	250	
Temperature of flue gas [°C]	472	
Average flue gas velocity [m/s]	23.1	
Average volume of flue gas discharged [Nm³/hr]	5459	

ANALYSIS REPORT:

Parameters	Unit	Results	GSPCB Limits**	Sampling & Analysis Methods
TPM / SPM	mg/Nm³	48.3	75 mg/Nm ³	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm³	109.0	-	IS 11255 (Part II) 1985
NOx	ppm v/v	64.78	710 ppm v/v	IS 11255 (Part VII) 2005
co	mg/Nm³	12.8	150 mg/Nm ³	APHA Edition II-134
NMHC	mg/Nm ³	12.9	100 mg/Nm ³	IS 5182 Part 21/2001

[&]quot;Consent No. 12/2022-PCB/1322094/R008891

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]

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1. The results robbs only to the samples lested.

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

Samples will be preserved for a period 15 days from the derivery of Test Report
 Test Results relate only to the conditions prevailing at the time of campling.

Centernor complaint register is available at teheratory

5. Californion details of the equipment's used in moreloong and consequence track side of products report.

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



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

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

	STACK E	MISSION REPORT			
Test Report No.	GA/23/0516	Test Re	port Da	te 09/03/20	23
Name of Client	M/s. GMR GOA INTER	M/s. GMR GOA INTERNATIONAL AIRPORT LIMITED			
Address of Client		ADMINISTRATIVE BLOCK, MOPA INTERNATIONAL AIRPORT, ADACHIWAD ROAD, NAGZAR, TALUKA PERNEM, MOPA, NORTH GOA – 403 512.			HIWADI
Sampling Plan	GLPL/QF/7.3/06	Sampling Procedure No. GLPL/SOP/SE/11		711	
Sample Collected By	GLPL Representative	ntative Environmental Condition of Lab			
Date of Sampling	05/03/2023	Temperature (°C)	28.4	Humidity (%)	48.0
Sample Received on	06/03/2023	Analysis Peri	- 4	06/03/2023 To 09/	about ten on on on

SAMPLING DETAILS - STACK EMISSION

Stack Attached to	D. G. SET NO. 3 (2000 KVA) [S-3]	
Lab Reference No.	GA/23/0516	
Time of Sampling (Hrs).	12:45	
Stack Diameter [mm]	457	
Height [Meter]	30.0	
Type of Fuel	HSD	
Consumption of Fuel [Lit/hr]	250	
Temperature of flue gas [°C]	475	
Average flue gas velocity [m/s]	21,9	
Average volume of flue gas discharged [Nm³/hr]	5158	

ANALYSIS REPORT:

Parameters	Unit	Results	GSPCB Limits**	Sampling & Analysis Methods
TPM / SPM	mg/Nm ³	52.8	75 mg/Nm ³	IS 11255 (Part I) 1985
Sulphur Dioxide	mg/Nm ³	125.8		IS 11255 (Part II) 1985
NOx	ppm v/v	67.1	710 ppm v/v	IS 11255 (Part VII) 2005
co	mg/Nm³	12.3	150 mg/Nm ³	APHA Edition II-134
NMHC	mg/Nm³	12.1	100 mg/Nm ³	IS 5182 Part 21/2001

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

End

For GADARK LAB PVT. LTD.

AUTHORISED SIGNATORY [SANTOSH V. ZULPE]



CHECKED BY

Note:

The results relate only to the samples insted.
 Test Report shall not be reproduced except in full, without written approval of the listeratory.

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

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

Customer complaint register is available of laboratory.

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

CALIBRATION DETAILS OF EQUIPMENT USED FOR SAMPLING

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



ANNEXURE - 3

ENVIRONMENTAL EXPENDITURE DURING PERIOD OF OCTOBER 2022 TO MARCH 2023

Note: All cost expenditures are in INR Crore.

S. N.	Particulars	Expenses during Oct 2022 to Mar 2023 (in INR Crore)
1,	AAQ & Noise Levels Monitoring (in Goa & Maharashtra States)	0.341
2.	Dust suppression through tankers & chemical dust suppression	0.020
3.	Maintenance of translocated trees within the site	0.002
4.	Top soil preservation measures	0.353
5.	O&M of labour colony STP	0.149
6.	Occupational health surveillance of workmen	0.049
7.	Environment Management Cell (EMC) set up	0.063
8.	Waste Management (M/s Alterz Energy)	0.087
9.	Vacuum Tanker (Portable toilets at site)	1.955
10.	Environmental Compliance Monitoring by NEERI	0.170
11.	Aviation Noise Monitoring Terminal units (NMT)	0.105
12.	Installation of 625 KLD Sewage Treatment Plant	0.304
13.	Installation of 550 KLD Water Treatment Plant 0.304	
14.	Miscellaneous (Campaigns, Seminar, Training, etc)	0.368
	TOTAL	4.270







<u>ANNEXURE – 4</u>

LIST OF STATUTORY PERMITS / APPROVALS RELATED TO ENVIRONMENT OBTAINED DURING OCTOBER 2022 TO MARCH 2023

S.N.	Statutory	Date		Chatutana Authorita	Permit	
5.N.	Permits/Approval	Issued	Validity	Statutory Authority	enclosed as	
1	NOC for installation of 2 x 30 KL HSD Storage Facility	13.10.2022	-	Mopa Airport Development Authority (MADA), GoG	Appendix-1	
2	Consent to Operate for Airport	20.10.2022	20.04.2023	Goa State Pollution Control Board (GSPCB)	Appendix-2	
3	Membership with Goa Industrial Environment Management Authority	22.11.2022	-	Goa Industrial Environment Management Authority (GIEMA)	Appendix-3	
4	PESO License for 60 KL HSD Tank (DG Sets)	02.12.2022	31.12.2024	Petroleum and Explosives Safety Organization (PESO)	Appendix-4	
5	IGBC Platinum Certificate for Passenger Terminal Building (PTB)	10.12.2022	10.12.2025	Indian Green Building Council (IGBC)	Appendix-5	
6	PESO License for Class-B ATF - 230 KL Storage (BPCL)	27.12.2022	31.12.2023	Petroleum and Explosives Safety Organization (PESO)	Appendix-6	
7	Approval for Integrated Waste Management Plan & Contaminant Containment Plan	27.12.2022	_	Goa State Pollution Control Board (GSPCB)	Annexure-7	
8	Authorization for Disposal of Non-Biodegradable Waste	24.01.2023	24.01.2024	Goa Waste Management Corporation (GWMC)	Appendix-8	
9	Extension of Consent to Operate for Airport	13.04.2023	01.08.2027	Goa State Pollution Control Board (GSPCB)	Appendix-9	



Appendix-1 NOC for installation of 2 x 30 KL HSD Storage Facility

Office of Member Secretary Mopa Airport Development Authority Room No. 19 Secretariat, Porvorim, Goa Goa-403521

Ph:0832-2419542/543

Fax: 0832-2419869

No. MADA/44/APP/UNDER PETROLEUM RULE 2002/2022- 15

13th October 2022

To,

The Additional District Magistrate Magisterial Branch Collectorate building Panaji

Sub: Reports regarding No Objection on Installation of 3 x 2000 KVA, 11 KV Prime Power Diesel generating sets to provide back up power to the Mopa Airport Project Site via Dadachiwadi under petroleum Rule 2002.

Sir,

With reference to your letter No. 9/2022(1)-MAG/PET/NOC/2389 dated 13/8/2022, NO OBJECTION is hereby conveyed for the proposed 2 x 30 KL U/G HSD Storage facility at GMR Goa International Airport Limited, Mopa Airport site, via Dadachiwadi Road, Nagzar, Pernem taluka for further necessary action at your end.

Yours faithfully,

(Dr. S. Shanbhogue) Member Secretary

MADA

Copy to:
The Chief Development Officer, GGIAL, Mathura One, Porvorim

	DATE OF RECEIPT	แปง0 ขอม
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	CDO Office	
	Civil Finishes	
	MEP & Airpost Systems	Hemant
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15/10	GMR GOA INTERNATIONAL AIRPO	ge 351 of 377

Appendix-2 Consent to Operate for Airport

GOA STATE POLLUTION CONTROL BOARD

गोंयराज्यप्रदूषणनियंत्रणमंडळ

(An ISO 9001-2015, ISO 14001:2015. ISO 45001:2018 Certified Board)

Phone Nos: 0832- 2407700,

2407701, 2407702

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: mail.gspcb@gov.in

20/10/2022

Date:

No.12/2022-PCB/1322094/R0008891

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 & 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:

- 1. This Consent to Operate is valid upto a period of six months from the date of issue of this consent.
- 2. This Consent to Operate is valid for the establishment 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 sewage treatment plant (625 KLD capacity) of FMR technology, as proposed, consisting of primary treatment comprising of bar screen & oil & grease trap, secondary treatment comprising of aeration / FMR reactor & clarifier tank and tertiary treatment comprising of multi grade filter& activated carbon filter 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:

pН	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/l
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10 mg/l
N-total	Not to exceed	10 mg/l
Fecal Coliform	Less than	100 MPN/100 ml

(iii) SewageDisposal:

The treated effluent shall be recycled to the maximum extent and remaining shall be used on land for gardening. 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.
- The unit shall at his own cost get the effluent samples collected both before and after treatment and (v) 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. The total quantity shall be segregated and treated as follows:

Sr. no.	Type of segregated solid waste	Quantity	Disposal
1	Bio-degradable waste	2 MT/ day	To be processed in Organic Waste Convertor to convert as manure.
2.	Non-biodegradable waste	3 MT/ day	Non-Recyclable waste to be baled and then handed over to GWMC or disposed off in cement kiln. Recyclable waste to be disposed to the recyclers.

(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.
- 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 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/Nm³
1.		D.G. set	3	2000 KVA	51.12	75

(ii) The applicant shall observe the following standards for D. G. Sets $\geq 1000 \text{ KVA}$

Sr. No	Parameters	Limits
1.	NOx (as NO ₂)	710 ppmv (at15% O ₂) Dry basis
2.	NMHC(as C)	100 mg/Nm ³ (at 15% O ₂)
3.	Particulate Matter	75 mg/Nm ³ (at 15 % O ₂)
4.	CO	150 mg/Nm ³ (at 15 % O ₂)
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	Standards	
		Ambient Air Quality Standards with respect to Noise in Airport Noise			
		Zone			
"112	Airports	Type of Airports	Limits in	dB (A) Leq	
		Day time Nig		Night time	
		Busy Airport 70 65		65	
		All other Airports excluding	65 60		
		proposed Airports			

(ix) The unit shall achieve the following Ambient Air Quality standards at 6 monitoring locations in Goa and 3 monitoring locations in Maharashtra other than CAAQM Station:

Sr. No.	Pollutant	Time weighted	Concentration in Ambient Air		
			Industrial	Ecologically sensitive	
			residential rural &	area (notified by	
			other area	Central Government)	
1.	Sulphur Dioxide	Annual*	50	20	
	(SO ₂), μ g/m ³	24 hours**	80	80	
2.	Nitrogen Dioxide	Annual*	40	30	
	(NO ₂), μ g/m ³	24 hours**	80	80	
3.	Particulate Matter	Annual*	60	60	
	(size less than 10 µg) or	24 hours**	100	100	
	$PM_{10} \mu g/m^3$				
4.	Particulate Matter	Annual*	40	40	
	(size less than 2.50 μg)	24 hours**	60	60	
	or $PM_{2.5} \mu g/m^3$				
5.	Lead (Pb), $\mu g/m^3$	Annual*	0.50	0.50	
		24 hours**	1.0	1.0	
6.	Carbon Monoxide (CO),	8 hours **	02	02	
	mg/m^3	1 hour**	04	04	

^{*}Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

- (x) The Unit shall carry out Ambient Air Quality Monitoring once every month from a laboratory 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, PM_{2.5}, 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.

5. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND 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:

mazar	nazaraoas wastes as specifica celow.					
Sr. No.	Category	Type of waste	Quantity	Mode of disposal		
1.	5.1	Used / Spent oil	5000 litres/ annum	To recycler registered with SPCB and having valid authorization of SPCB.		
2.	5.2	Wastes/ residues containing oil	1000 kg/ annum	To be sent to CHWTSDF operated byM/s Ponda Envocare Ltd. at Pissurlem IDC, Goafor incineration.		
3.	33.1	Discarded containers contaminated with	2000 kg/ annum	To recycler registered with SPCB and having valid		

^{** 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.

hazardous chemicals/	authorization of SPCB.
wastes	

- 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.
- 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 Waste (Management & Transboundary Movement) Rules 2016, as amended thereafter.
- **xi)** The occupier shall furnish annual returns for collection, storage and disposal of hazardous waste through OCMMS systems.
- **xii)** The unit shall put up an online board (minimum size 6x4 Feet) at prominent location 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.
 - Consent to Operate under Air Act, Water Act and Hazardous Waste Authorization-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 occupier shall furnish annual returns online for collection, storage and disposal of hazardous waste in Form 4 by 30th June of every year.
- **xv)** The occupier has to obtain registration with the CHWTSDF operated by M/s Ponda Envocare at Pissurlem IDC, Goa for the disposal of hazardous waste within 30 days of receipt of this Consent.

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 with effect from the 1st July, 2022.
- (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.

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 Digitally signed by DR SHAMILA MONTEIRO

MONTEIRO
Date: 2022.10.20
16:31:08 +05'30'

(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

Goa State Pollution Control Board

QEHS-CIE-F(06-03)

CUSTOMER FEEDBACK

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oa State Pollution Control Board,						
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 Please note that your feedback is conside 		ential for	r overa	ll improv	ement a	and developi
Board functions in service of environment	-					

Appendix-3

Membership with Goa Industrial Environment Management Authority

Certificate of Membership

This is to certify that

GMR Goa International Airport Limited

is the member of the



Reg. No.:- 66/Goa/2007

Membership No.: 103 2022-23

Date: 22 11 2022

1 toors

K.V.S. Krishnakumar

President

A.J. D'Souza

Treasurer

Page 360 of 377

Appendix-4 PESO License for 60 KL HSD Tank (DG Sets)

Print Back



भारत सरकार Government of India वाणिज्य और उद्योग मंत्रालय

Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक सुरक्षा संगठन (पैसो)

Petroleum & Explosives Safety Organisation (PESO) ए-1 और ए-2 विंग, पाँचवा तल, केंद्रीय कार्यालय परिसर, सी.बी.डी. बेलापुर नवी मंबई (महा.)- 400614

A1 & A2 wing, 5th Floor, C.G.O. complex, CBD Belapur, Navi Mumbai (M.S.), Mumbai - 400614

E-mail: jtccemumbai@explosives.gov.in

Phone/Fax No: 022 - 27575946,27573881

दिनांक /Dated : **02/12/2022**

संख्या /No.: P/WC/GA/15/86 (P529504)

सेवा में /To,

M/s. M/s. GMR GOA INTERNATIONAL AIRPORT LTD, SY NO. 114/1,114/4,115/1,115/2,117/1,117/4 , MOPA,

MOPA, Pernem,

Taluka: Pernem, District: NORTH GOA.

State: Goa PIN: 403512

विषय Survey No, 114/1,114/4,115/1,115/2,117/1,117/4, MOPA AIRPORT PROJECT SITE,VIA DADACHIWADI

/Sub: ROAD - NAGZER,PERNEM TALUK,NORTH GOA - 403512, MOPA, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 में पेट्रोलियम वर्ग B का अधिष्ठापन -अनुज्ञप्ति जारी करने के बारे में ।

Petroleum Class B Installation at Survey No, 114/1,114/4,115/1,115/2,117/1,117/4, MOPA AIRPORT PROJECT SITE,VIA DADACHIWADI ROAD - NAGZER,PERNEM TALUK,NORTH GOA - 403512, MOPA, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 Grant of License regarding.

महोदय /Sir(s),

कृपया आपके पत्र क्रमांक OIN1207434 दिनांक 18/11/2022 का अवलोकन करें।

Please refer to your letter No. OIN1207434 dated 18/11/2022

विषयान्तयर्गत अधिष्ठापन में निम्नलिखित पेट्रोलियम पदार्थों के वर्ग तथा मात्रा के भंडारण के लिए पेट्रोलियम नियम, 2002 के अधीन प्ररूप - XV में स्वीकृत, दिनांक 31/12/2024 तक वैध अनुज्ञप्ति संख्या P/WC/GA/15/86 (P529504) दिनांक 02/12/2022 भेजी जा रही है ।

Licence No. **P/WC/GA/15/86 (P529504)** dated **02/12/2022** granted in Form XV under the Petroleum Rules, 2002 and valid till **31/12/2024** for the storage of the following kinds and quantities of Petroleum at the subject installation is forwarded herewith.

पेट्रोलियम का विवरण /Description of Petroleum	किलोलीटरों में अनुज्ञप्त क्षमता /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	60.00 KL

वर्ग ख प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्ना /Petroleum Class C,otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	60.00 KL

कृपया पेट्रोलियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कडाई से पालन करें और अनुज्ञप्ति के नवीकरण हेतु समस्त् दस्तावेजों को अनुज्ञप्ति की वैधता समाप्ती् की तारीख या उससे पूर्व इस कार्यालय को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for further renewal of the licence to this office, so as to reach on or before the date on which licence expires.

यह अनुमोदन/ अनुमति अन्य प्राधिकारियों से आवश्यक अनुमति/क्लीयरन्स प्राप्त करने से या यथा लागू अन्य विधियों से छूट नहीं देती है ।

This approval/permission, however, does not absolve from obtaining necessary permission/clearance from other authorities or under other statutes as applicable.

भवदीय /Yours faithfully,

((ए. के. श्रीवास्तव)
(A.K.Srivastava))
उप मुख्य विस्फोटक नियंत्रक
Dy. Chief Controller of Explosives
कृते संयुक्त मुख्य विस्फोटक नियंत्रक
For Jt. Chief Controller of Explosives
नवी मुंबई (महा.)/Mumbai

Copy forwarded to :-

1. The Airport Authority, NORTH GOA(Goa) with reference to his NOC No 9/2022(I)-MAG/PET/NOC/3032 Dated 09/11/2022

For Jt. Chief Controller of Explosives
Mumbai

(अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट http://peso.gov.in देखें) (For more information regarding status,fees and other details please visit our website http://peso.gov.in)

Note:-This is system generated document does not require signature.

Disclaimer: This page gives the latest action taken by this organization on your application. This page is made available for the information of concerned applicant/licensee only. All efforts have been made to secure this information. However, PESO will not be responsible for any misuse of the information by unauthorized persons including the hackers.





Indian Green Building Council (IGBC)

hereby certifies that

GMR Goa International Airport Terminal

Mopa, Goa

(IGBC Registration No: NBO 19 0084)

has successfully achieved the Green Building Standards required for the following level of certification under the

IGBC Green New Buildings Rating System

(Owner-Occupied Building)



Platinum

10 December 2022

(This Certificate is valid for 3 years from the date of certification)

C N Raghavendran

Chair, IGBC Green New Buildings

Gurmit Singh Arora

Chairman, IGBC

Wolahal of

K S Venkatagiri

Executive Director, CII-Godrej GBC

<u>Appendix-6</u> PESO License for Class-B ATF - 230 KL Storage (BPCL)



भारत सरकार Government of India

वाणिज्य और उदयोग मंत्रालय

Ministry of Commerce & Industry पेट्रोलियम तथा विस्फोटक स्रक्षा संगठन (पैसो) Petroleum & Explosives Safety Organisation (PESO) पाँचवा तल, ए-ब्लाक, सी.जी.ओ.कॉम्प्लेक्स, सेमिनरी हिल्स नागपुर- 440006 5th Floor, A-Block, CGO Complex, Seminary Hills, Nagpur - 440006

> E-mail: explosives@explosives.gov.in Phone/Fax No: 0712 -2510248, Fax-

2510577

दिनांक /Dated : 27/12/2022

संख्या /No.: P/HQ/GA/15/868 (P529583)

सेवा में /To.

M/s. Bharat Petroleum Corporation Limited,

GMR GOA INTERNATIONAL AIRPORT LIMITED, Mopa Airpor,

Pernem,

Taluka: Pernem, District: NORTH GOA,

State: Goa PIN: 403512

विषय /Sub : Survey No, 107/1,107/14, 107/30, GMR GOA INTERNATIONAL AIRPORT LIMITED, Mopa Airport Project Site, Via Dadachiwadi road - Nagzar, Pernem Taluka,, Pernem, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 में स्थित विद्यमान पेट्रोलियम वर्ग B अधिष्ठापन में अनुजप्ति सं P/HQ/GA/15/868 (P529583) के नवीकरण के संदर्भ में । Existing Petroleum Class B Installation at Survey No, 107/1,107/14, 107/30, GMR GOA INTERNATIONAL AIRPORT LIMITED, Mopa Airport Project Site, Via Dadachiwadi road - Nagzar, Pernem Taluka,, Pernem, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 - Licence No. P/HQ/GA/15/868 (P529583) - Renewal regarding.

महोदय /Sir (s).

> कृपया आपके पत्र क्रमांक OIN1260947 दिनांक 27/12/2022 का अवलोकन करें । Please refer to your letter No.: OIN1260947, dated 27/12/2022

अनुजन्ति संख्या P/HQ/GA/15/868 (P529583) दिनांक 27/12/2022 को दिनांक 31/12/2023 तक नवीनीकृत कर इस पत्र के साथ अयिवत की जा रही है । Licence No. P/HQ/GA/15/868 (P529583) dated 27/12/2022 is forwarded herewith duly renewed

upto 31/12/2023.

कृपया पेट्रोतियम नियम 2002 के अधीन बनाए गए नियम 148 में दी गई प्रक्रिया का कड़ाई से पालन करें। अनुज्ञप्ति के नवीकरण हेतु समस्त दस्तावेजों को अनुज्ञप्ति की वैधता समाप्त होने की तिथि से कम से कम 30 दिन पूर्व Jt. Chief Controller of Explosives, West Circle, Mumbai कार्यालय को प्रेषित करें।

Please follow the procedure strictly as laid down in rule 148 of the Petroleum Rules, 2002 and submit complete documents for the Renewal of the licence to Jt. Chief Controller of Explosives, West Circle, Mumbai, so as to reach his office on or before the date on which

Page 364 of 377

Licence expires. कृपया पावती दे। Please acknowledge the receipt.

भवदीय /Yours faithfully,

((के.त्यागराजन) (K. Thiagarajan)) संयुक्त मुख्य विस्फोटक नियंत्रक Jt. Chief Controller of Explosives कृते मुख्य विस्फोटक नियंत्रक For Chief Controller of Explosives नागपुर/Nagpur

Note:-This is system generated document does not require signature. (अधिक जानकारी जैसे आवेदन की स्थिति, शुल्क तथा अन्य विवरण के लिए हमारी वेबसाइट http://peso.gov.in.देखें) (For more information regarding status fees and other details please visit our website: http://peso.gov.in)

प्ररूप XV (प्रथम अनुसूची का अनुच्छेद 6 देखिए) FORM XV (see Article 6 of the First Schedule)

अधिष्ठापनों में पेट्रोलियम के आयात और भंडारकरण के लिए अनुजम्ति LICENCE TO IMPORT AND STORE PETROLEUM IN AN INSTALLATION

अनुज्ञप्ति सं. (Licence No.) : P/HQ/GA/15/868(P529583)

फीस रूपए (Fee Rs.) 14000/- per year

M/s. Bharat Petroleum Corporation Limited, GMR GOA INTERNATIONAL AIRPORT LIMITED, Mopa Airpor, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 को केवल इसमें यथा विनिर्दिष्टु वर्ग और मात्राओं में पेट्रोलियम 230.00 KL आयात करने के लिए और उसका, नीचे वर्णित और अनुमोदित नक्शा संख्या P/HQ/GA/15/868(P529583) तारीख 27/12/2022 जो कि इससे उपाबद्ध हैं, में दिखाए गए स्थान पर भण्डारकरण के लिए पेट्रोलियम अधिनियम, 1934 के उपबंधों या उसके अधीन बनाए गए नियमों तथा इस अनुज्ञप्ति की अतिरिक्त शर्तों के अधीन रहते हुए, यह अनुज्ञप्ति अनुदत्त की जाती हैं।

Licence is hereby granted to M/s. Bharat Petroleum Corporation Limited, GMR GOA INTERNATIONAL AIRPORT LIMITED, Mopa Airpor, Pernem, Taluka: Pernem, District: NORTH GOA, State: Goa, PIN: 403512 valid only for the importation and storage of 230.00 KL Petroleum of the class and quantities as herein specified and storage thereof in the place described below and shown on the approved plan No P/HQ/GA/15/868(P529583) dated 27/12/2022 attached hereto subject to the provisions of the Petroleum Act, 1934 and the rule made thereunder and to the further conditions of this Licence.

यह अनुज्ञप्ति 31st day of December **2023** तक प्रवृत रहेगी । The Licence shall remain in force till the 31st day of December **2023**

पेट्रोलियम का विवरण /Description of Petroleum	अनुज्ञप्त मात्रा (किलोलीटरों में) /Quantity licenced in KL
वर्ग क प्रपुंज पेट्रोलियम /Petroleum Class A in bulk	NIL
वर्ग क प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class A, otherwise than in bulk	NIL
वर्ग ख प्रपुंज पेट्रोलियम /Petroleum Class B in bulk	230.00 KL
वर्ग ख प्रपंज पेट्रोलियम से भिन्न /Petroleum Class B, otherwise than in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम /Petroleum Class C in bulk	NIL
वर्ग ग प्रपुंज पेट्रोलियम से भिन्न /Petroleum Class C,otherwise than in bulk	NIL
कुल क्षमता /Total Capacity	230.00 KL
27 2022	lac

December 27, 2022

For Chief Controller of Explosives
Page 16QofNagpur

Appendix-7

Approval for Integrated Waste Management Plan & Contaminant Containment Plan

GOA STATE POLLUTION CONTROL BOARI गोंय राज्य प्रद्षण 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



Emwil Ids.

Chairman, GSPCB: chairman-gspcb.goa@nic.in Member Secretary GSPCR: ms-gspcb.gos@nic.ltl Office: mail.gapcb@gov.in

No. 12/2022 PCB/1322094/R0008891/-

Dute: 9 7212/2022

Eo.

M/s GMR Gos International Airport Limited (Represented by Mr. Sheshan R V, Chief Executive Officer) Mopa, Pernem-Gea

Sub: Seeking approval for 'integrated Waste Management Plan' and Spillage & Contaminant Containment Plan' for Airport Operation & Maintenance

Ref: 1) Your letter no. GGIAL/GSPCB/22-23/1277 dated 18/11/22

Sir.

With reference to the above, the Board is in receipt of two plans for approval i.e Integrated Waste Management Plan' and Spillage & Contaminant Containment Plan' submitted by your unit, in compliance to EC condition no. (v) under 'VI. Waste Management' and condition no. (vi) under 'III. Water Quality Monitoring and Preservation

Therefore, the Board hereby approves the two plans of Integrated Waste Management Plan, and Spillage & Contaminant Containment Plan' submitted by your unit vide letter (1) referred above.

You are required to maintain appropriate records and file returns under the required EP Act mall Rules pertaining to Waste Management.

Yours Faithfully,

(Dr. Shamila Monteiro) Member Secretary

For Goa State Pollution Control Board

<u>Appendix-8</u> Authorization for Disposal of Non-Biodegradable Waste



Ref: GWMC/Tech/51/part-3/2022-23/1528 Date: 24/01/2023

To.
Vice President,
EHS & Sustainability,
GMR Goa International Airport Limited,
Survey No 381/3, Mathura One,
1st Floor, NH-17, Porvorim,
Goa, INdia-403501.

Sub.: <u>Authorization for deposition non-biodegradable waste with Goa Waste Management</u> Corporation

Ref No 1: Y/L no GGIAL/GWMC/2022-23/1434 dated 13/01/2023.

Sir

This is in response to your letter referred above for disposal non-biodegradable waste with GWMC

The waste should be deposited only in a segregated manner in compliance to the following legislation's

- I Solid Waste Management Rules 2016.
- The Goa Non-biodegradable Garbage Control Act 1996
 - Final order of NGT in the matter Saligao Civic and Consumer Cell v/s State of Goa & Ors. (No. 15/2015).
 - 4 Any non-compliance will result in cancellation of the service without any notice
 - 5 Authorization from Goa State Pollution Control Board (GSPCB) or any other authority if required to be obtained as per law/rules

This is to inform you that the waste shall be accepted at a fee of Rs 3770/- per ton and additional GST @ 18% i.e Rs 4449/- per ton and authorization shall be valid for 1 year from date of issue of this letter.

You are requested to deposit initial amount Rs 15,000/- as security deposit which will be refunded at the end of authorization period. The payment shall be made by Cheque / DD / RTGS / NEFT in favour of Goa Waste Management Corporation. The bank details are given below:

Bank Name	State Bank of India
Branch	Panaji
Account Number	40412633563
IFSC Code	SBIN0004212
GST No	30AAAGG1376A1Z8
PAN No	AAAGG1376A

It has to be ensured that no bio-medical waste, e-waste, Hazardous waste or C&D waste is brought at the facility.

The vehicles used for transportation should be covered and not be over loaded above the cargo hold level. Also ensure that there is no spillage of waste along the way during transportation. Before deposition of waste, may kindly intimate the vehicle registration details/ number on samir natekar@zerowastegoa.com.

Please note that NON-SEGREGTED WASTE WILL NOT BE ACCEPTED.

Yours Faithfully,

(Dr. Levinson Martins) Managing Director

Appendix-9 Extension for Consent to Operate for Airport

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

13/04/2023

Office: mail.gspcb@gov.in

Date:

No.12/2023-PCB/1617143/R00011760

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:

- 1. 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 <u>625 KLD</u>

(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:

pН	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/l
COD	Not to exceed	50 mg/l
Oil & Grease	Not to exceed	10 mg/l
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 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:

The total quantity shall be segregated and treated as follows:

Sr. no.	Type of segregated solid	Quantity	Disposal
	waste		
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.

(vii) The applicant should upload monthly statement (below format) regarding the solid waste generation online.

Sr. No.	Sr. Date Quantity of No. 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:

(i) 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 $\geq 1000 \text{ KVA}$

Sr. No	Parameters	Limits
1.	NOx (as NO ₂)	710 ppmv (at15% O ₂) Dry basis
2.	NMHC(as C)	100 mg/Nm ³ (at 15% O ₂)
3.	Particulate Matter	75 mg/Nm ³ (at 15 % O ₂)
4.	CO	150 mg/Nm ³ (at 15 % O ₂)
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	Standards		
		Ambient Air Quality Standards with respect to Noise in Airport				
		Noise Zone	_			
"112	Airports	Type of Airports	Limits in	Limits in dB (A) Leq		
			Day time	Night time		
		Busy Airport	70	65		
		All other Airports excluding	65	65 60		
		proposed Airports				

(ix) The unit shall achieve the following Ambient Air Quality standards at 6 monitoring locations in Goa and 3 monitoring locations in Maharashtra other than CAAQM Station:

Sr. No.	Pollutant	Time weighted	Concentration in Ambient Air		
			Industrial residential rural	Ecologically sensitive area (notified by	
			& other area	Central Government)	
1.	Sulphur Dioxide	Annual*	50	20	
	$(SO_2), \mu g/m^3$	24 hours**	80	80	
2.	Nitrogen Dioxide	Annual*	40	30	
	(NO ₂), μ g/m ³	24 hours**	80	80	
3.	Particulate Matter	Annual*	60	60	
	(size less than 10 µg) or	24 hours**	100	100	
	$PM_{10} \mu g/m^3$				
4.	Particulate Matter	Annual*	40	40	
	(size less than 2.50 μg)	24 hours**	60	60	
	or $PM_{2.5} \mu g/m^3$				
5.	Lead (Pb), $\mu g/m^3$	Annual*	0.50	0.50	
		24 hours**	1.0	1.0	
6.	Carbon Monoxide (CO),	8 hours **	02	02	
	mg/m^3	1 hour**	04	04	

^{*}Annual arithmetic mean of minimum 104 measurements in a year at a particular site taken twice a week 24 hourly at uniform intervals.

- (x) The Unit shall carry out Ambient Air Quality Monitoring once every month from a laboratory 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, PM_{2.5}, 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.

5. CONDITIONS REQUIRED TO BE COMPLIED UNDER THE HAZARDOUS AND 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.

^{** 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.

23.	33.2	Contaminated cotton	01 MT/ annum	To be sent to CHWTSDF
		rags or other		operated by M/s Ponda
		cleaning materials		Envocare Ltd. at Pissurlem
				IDC, Goa for incineration.

- 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.
- 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 (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 @ http://goaspcb.gov.in/Hazardous-Waste-Management 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 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 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 Digitally signed by DR SHAMILA MONTEIRO

MONTEIRO Date: 2023.04.13
17:01:44 +05'30'

(Dr. Shamila Monteiro) Member Secretary Goa State Pollution Control Board

Goa State Pollution Control Board

QEHS-CIE-F(06-03)

CUSTOMER FEEDBACK

Name:						
Contact						
Address:						
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				• • • • • • • • • • • • • • • • • • • •	••••••	•••••
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		's Charter a	as availa	ible 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						
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						
Date of your visit to the office and your overall						
experience						
Suggestions for improvement, if any		ı	_1	I		
				Sign	ature &	z date
To,						
The Member Secretary,						
Goa State Pollution Control Board,						
Near Pilerne Industrial Estate,						
Opposite Saligao Seminary, Saligao, Bard	lez, Goa. 40	3511				
Please note that your feedback is con Board functions in service of environn		ential for	r overa	all improv	ement a	and developmen